

CURRICULUM VITAE FOR PROFESSOR STEPHANE HESS

stephane.hess@gmail.com
www.stephaneHess.me.uk
www.ApolloChoiceModelling.com

April 2025

Date of Birth: 14 December 1978

Professor of Choice Modelling
Director of the Choice Modelling Centre
University of Leeds, United Kingdom

Professor of Decision modelling, AI and mobility research
Delft University of Technology, The Netherlands (part-time)

Honorary Professor of Modelling Behaviour in Africa
University of Cape Town

Director
Choice Analysis and Training, LTD



BRIEF BIO

I am an internationally recognised expert in the analysis of human decision making using advanced mathematical models, with a key focus on travel behaviour. My work has made contributions to the state of the art in the specification, estimation and interpretation of such models, as well as in facilitating the transition of ideas and approaches across disciplines, notably by also working in mathematical psychology and behavioural economics. Together with David Palma, I am a developer of Apollo, a highly flexible and powerful free tool for estimating and applying choice models that is used around the world.

My publication record is extensive (over 180 journal papers), and my work is highly cited, with a Scopus h-index of 44 (google scholar h-index of 58). The impact of my work has been recognised for example by the 2017 and 2019 ICMC awards for the most innovative application of choice modelling, the 2014 Outstanding Young Member of the Transportation Research Board (TRB) award for exceptional achievements in transportation research, policy, or practice, the 2010 Fred Burggraf award handed out by the Transportation Research Board, the 2005 Eric Pas award for the best PhD thesis in the area of travel behaviour modelling, and the 2004 Neil Mansfield award handed out by the Association for European Transport. One of my proudest achievements is my success as a PhD advisor, with students under my supervision having excellent publication records and with their work similarly having been recognised by numerous awards, including two winners of the prestigious Eric Pas award. My work has been supported by a range of different grants, where I have been involved as a principal or co-investigator in academic projects with a combined value of over £11.9M.

In academic leadership activities, I am the founding editor in chief of the Journal of Choice Modelling and the founder and steering committee chair of the International Choice Modelling Conference. I also serve on the editorial advisory board of two other leading journals; Transportation Research Part B and Transportation, and contribute to academic committees at leading international conferences.

Although a majority of my applied work has been conducted in the field of transport, including leading the modelling on the most recent UK, German and Singaporean national value of time studies, as well as the re-estimation of the Swiss study, I am also very active in health and environmental economics. Together with my research team at the Choice Modelling Centre, I am setting the research agenda in building bridges between choice modelling, mathematical psychology and machine learning, as well as applying choice modelling in new fields. Advanced choice models require high quality data, and I am at the forefront of exploring and exploiting novel data sources, with groundbreaking applications using ‘big data’.

Outside academia, I am very active in consulting work across transport, health, marketing and environmental economics. I am the director of Choice Analysis and Training, a limited company with a project portfolio across all inhabited continents.

ACADEMIC CAREER

- 12/2023 – present Member of the Board of Governors (Conseil de Gouvernance), University of Luxembourg
- 04/2022 – 03/2024 **Guest Professor (part-time)**
Road, Rail and Transport, Norwegian University of Science and Technology
- 11/2021 – present **Professor of Decision modelling, AI and mobility research (part-time)**
Delft University of Technology
- 11/2018 – present **Honorary Professor of Modelling Behaviour in Africa**
Centre for Transport Studies, University of Cape Town
- 05/2014 – present **Director of the Choice Modelling Centre**
University of Leeds
- 10/2012 – present **Professor of Choice Modelling**
Institute for Transport Studies, University of Leeds
- 05/2011 – 11/2023 **Honorary Professor in Choice Modelling**
Institute of Transport and Logistics Studies, University of Sydney
- 10/2021 – 09/2023 **Turing Fellow**
Alan Turing Institute
- 04/2014 – 04/2017 **Affiliated Professor in Demand Analysis**
KTH Royal Institute of Technology in Stockholm
- 07/2010 – 01/2014 **External affiliate**
Centre for the Study of Choice, University of Technology Sydney
- 03/2010 – 09/2012 **Reader in Choice Modelling**
Institute for Transport Studies, University of Leeds
- 09/2008 – 09/2010 **Leverhulme Early Career Fellow**
Institute for Transport Studies, University of Leeds
- 05/2008 – 02/2010 **Principal Research Fellow**
Institute for Transport Studies, University of Leeds
- 12/2006 – 12/2007 **Research Fellow**
Centre for Transport Studies, Imperial College London
- 10/2006 – 11/2006 **Visiting Scholar**
Civil and Environmental Engineering, Massachusetts Institute of Technology
- 02/2006 – 05/2011 **Visiting Research Scholar**
Institute of Transport and Logistics Studies, University of Sydney
- 01/2006 – 12/2007 **Senior Researcher**
Institute for Traffic Planning and Transport Systems, ETH Zurich
- 10/2005 – 12/2005 **Research Assistant**
Institute for Traffic Planning and Transport Systems, ETH Zurich

EDUCATION

- September 2005 **PhD**, “Advanced discrete choice models with applications to transport demand”, Imperial College London, Centre for Transport Studies
- July 2002 **MPhil** in Statistical Science, University of Cambridge, Queens’ College & Statistical Laboratory
- July 2001 **BSc** in Business Mathematics and Computing Science (first class), Manchester Metropolitan University, Department of Science and Engineering

AWARDS, PRIZES & FELLOWSHIPS

- December 2021 **Inaugural David A. Hensher ‘Best Transport Demand Modelling Paper Prize’**, Australasian Transport Research Forum (ATRF), Brisbane, *Decision field theory: an extension for real world settings*” (with Thomas Hancock, Charisma Choudhury and Panos Tsoleridis)
- October 2021 **Turing fellowship**: Alan Turing Institute
- May 2021 **University of Leeds partnership award**: best mentor category
- March 2021 **1st place in PhRMA Foundation Challenge Award - Valuing Diversity: Addressing Health Disparities Challenge Award**, “*Drivers of Health Disparities and Consequences for COVID-19 Vaccine Choices: Modelling Health Preference Heterogeneity among Underserved Populations*” (with Eline van den Broek-Altenburg, Jamie Benson & Adam Atherly)
- August 2019 **Award for the most innovative application of choice modelling, named in honour of Andrew Daly**, 6th International Choice Modelling Conference, Kobe, “*Quantum rotation: a new method for capturing a change of perspective*” (with Thomas Hancock & Charisma Choudhury)
- April 2017 **Award for the most innovative application of choice modelling, named in honour of Andrew Daly**, 5th International Choice Modelling Conference, Cape Town, “*Using advanced choice models to study animal behaviour*” (with Marek Giergiczny)
- January 2014 **Outstanding Young Member of the Transportation Research Board (TRB)** For exceptional achievements in transportation research, policy, or practice and service to TRB, Transportation Research Board of North America
- July 2013 **Commendation for outstanding paper published in Environmental and Resource Economics**, “*Accounting for Latent Attitudes in Willingness-to-Pay Studies: The Case of Coastal Water Quality Improvements in Tobago*” (with Nesha Beharry-Borg)
- October 2010 **Fred Burggraf Award** for excellence in transportation research by researchers 35 years of age or younger, Transportation Research Board, “*Review of Evidence for Temporal Transferability of Mode-Destination Models*” (with James Fox)
- October 2008 **Leverhulme Early Career Fellowship**, Leverhulme Trust
- August 2006 **2005 Eric Pas prize** for the best PhD thesis in the field of Travel Behaviour Research, International Association for Travel Behaviour Research, “*Advanced discrete choice models with applications to transport demand*”
- October 2004 **Neil Mansfield award** for the best paper by a sole author under the age of 35, European Transport Conference, Strasbourg, “*A model for the joint analysis of airport, airline, and access-mode choice for passengers departing from the San Francisco Bay area*”
- August 2004 **EPAINOS award** for the second-best paper in Regional Science by a young researcher, 44th Annual European Regional Science Conference, Porto, “*An analysis of airport-choice behaviour using the Mixed Multinomial Logit model*”
- June 2001 **Peter Haworth prize**, Manchester Metropolitan University, Highest Marks in Honours Scheme

AWARDS TO STUDENTS

- July 2023 **Khatun Zannat: Smeed Prize Runner-Up**, Universities Transport Studies Group (UTSG) Annual Meeting, Cardiff, “*Investigating the relative precision of GPS, GSM and CDR data for inferring spatio-temporal travel trajectories*”
- December 2021 **Thomas Hancock: Inaugural David A. Hensher ‘Best Transport Demand Modelling Paper Prize’**, Australasian Transport Research Forum (ATRF), Brisbane, “*Decision field theory: an extension for real world settings*”

January 2021	Thomas Hancock: 2019 Eric Pas prize for the best PhD thesis in the field of Travel Behaviour Research, International Association for Travel Behaviour Research, “ <i>Travel behaviour modelling at the interface between econometrics and mathematical psychology</i> ”
August 2019	Thomas Hancock: Award for the most innovative application of choice modelling, named in honour of Andrew Daly , 6 th International Choice Modelling Conference, Kobe, “ <i>Quantum rotation: a new method for capturing a change of perspective</i> ”
July 2018	Chiara Calastri: 2017 Eric Pas prize for the best PhD thesis in the field of Travel Behaviour Research, International Association for Travel Behaviour Research, “ <i>Capturing and modelling complex decision-making in the context of travel, time use and social interactions</i> ”
May 2017	Chiara Calastri: Leeds University Union partnership award for the best postgraduate teaching by a PhD student in the University of Leeds
April 2017	Thomas Hancock: Best PhD paper , 5 th International Choice Modelling Conference, Cape Town
October 2014	Jeff Tjong: Neil Mansfield award for the best paper by a sole author under the age of 35, European Transport Conference, Frankfurt
September 2013	Jeff Tjong: Ove Arup Transport Studies prize for the best transport dissertation at the Institute for Transport Studies, University of Leeds
December 2011	Qian Fu: First runner-up prize of the Hong Kong Society for Transportation Studies Outstanding Student Paper Award
September 2011	Manuel Ojeda Cabral: Ove Arup Transport Studies prize for the best transport dissertation at the Institute for Transport Studies, University of Leeds
October 2011	James Fox: Neil Mansfield award for the best paper by a sole author under the age of 35, European Transport Conference, Glasgow
October 2010	James Fox: Fred Burggraf Award for excellence in transportation research by researchers 35 years of age or younger, Transportation Research Board

INVITED TALKS

Keynote presentations

September 2023	ENVECHO 2023, Durham, “Choice Modelling VS AND Machine Learning”
September 2022	FAERE 2022, Rouen, France, “ <i>One size does not fit all: contrasting the data and model requirements for valuation and prediction</i> ”
September 2020	EWGT 2020, Paphos, Cyprus, “ <i>Travel behaviour modelling with novel data sources</i> ”
June 2019	Tristan 2019, Hamilton Island, Australia, “ <i>Quantum logic and neural preference accumulation: a leap into the unknown or a new dawn for dynamic travel behaviour models?</i> ”
June 2019	Colombian Congress of Transit and Transport in Cartagena, “ <i>The luxury (and curse) of variety: choosing between data on real, hypothetical and virtual travel behaviour, and avoiding fake data</i> ”
November 2018	TRANSW Symposium Sydney, “ <i>Innovative travel demand modelling using novel data sources</i> ”
August 2018	ICW 2018, Santiago, Chile, “ <i>From brainwaves to utilities: what can choice modellers learn from neuroscience and mathematical psychology?</i> ”
September 2017	ENVECHO 2017, Bern, “ <i>Quo vadis choice modelling in environmental research: more of the same or brave new departures?</i> ”
July 2017	Newton Fund Researcher Links Workshop, Shanghai, “ <i>Travel demand modelling and the twin challenges of urbanisation and new data</i> ”
June 2015	Third Workshop On Non-Market Valuation (WONV), Nancy, France, “ <i>An outsider’s view on choice modelling work in environmental economics</i> ”
November 2014	10 th International Conference on Transport Survey Methods, Leura, Australia “ <i>Challenges for very large transport models: the example of TransTools3</i> ”

- June 2012 Air Travel Research Society Conference, Tainan, Taiwan
“New directions in air travel behaviour modelling”
- May 2010 TRB Conference on Innovations in Travel Modelling (ITM), Tempe, Arizona
“Conflicting interpretations of respondent heterogeneity”
- Invited conference, symposia and workshop presentations***
- October 2021 Cátedra Europa workshop, Universidad del Norte, Colombia, Plenary Presenter on
“Deriving transport appraisal values from emerging data sources”
- May 2021 ISPOR 2021, Invited workshop presentation on *“Accounting for Preference Heterogeneity in Stated Preference Studies”*
- January 2020 Workshop on qualitative attributes in stated choice surveys, University of the Basque Country, Plenary Presenter on *“Disentangling heterogeneity in attribute interpretation from heterogeneity in preferences”*
- August 2018 Workshop in honour of Daniel McFadden, University of California at Santa Barbara, Plenary Presenter on *“Homo economicus vs the reptilian brain: insights from mathematical psychology and neuroscience”*
- April 2017 Workshop on “Advancing the Science of travel demand modelling”, University of California at Berkeley, Plenary Presenter on *“Reflections on choice modelling for travel demand modelling”*
- September 2016 Symposium on regret minimisation, Delft University, Plenary presenter on *“Limitations and contrasts: re-evaluating the benefits of alternatives to RUM”*
- December 2015 Symposium in Honour of Dan McFadden, Université Cergy Pontoise, Paris Plenary presenter on *“Advances in value of time modelling and implications for practice”*
- October 2014 Applied Health Econometrics Symposium, Academic Unit of Health Economics, University of Leeds, plenary presenter on *“Incorporating attitudinal constructs in choice models: theory and an application to back pain”*
- February 2014 3rd European Workshop on Discrete Choice Modelling, Padua, plenary presenter on *“Intra-respondent heterogeneity in a stated choice survey on wetland conservation in Belarus: first steps towards creating a link with uncertainty in contingent valuation”* and *“Maximise your utility by minimising your regret: contrasts between two decision paradigms”*
- December 2013 Third Danish Choice Modelling Day, University of Southern Denmark, Odense Plenary presenter on *“Maximise your utility by minimising your regret: contrasts between two decision paradigms”*
- April 2013 University of Leeds research day on decision making, plenary presentation on *“How do individuals make decisions? Contributions from the field of choice modelling”*
- February 2013 2nd European Workshop on Discrete Choice Modelling, Berlin, plenary presenter on *“Linking response quality to survey engagement: a combined random scale and latent variable approach”* and *“Stop attending to non-attendance”*
- July 2012 13th International Conference on Travel Behaviour Research, Toronto Resource paper presentation: *“When explanatory variables are unobserved: the example of latent income”*
- April 2012 Workshop on noise and imprecision in individual and interactive decision-making, University of Warwick, plenary presenter on *“Random utility approaches to noise and imprecision”*
- March 2012 Conjoint Analysis in Health Care conference, Orlando, Florida, plenary presenter in panel session on *“Collaborating across disciplines”*
- February 2012 Bilbao European Workshop on Discrete Choice Experiments, plenary presenter on *“Can scale and coefficient heterogeneity be separated in random coefficients models?”*
- January 2012 91st Annual Meeting of the Transportation Research Board, Washington, D.C. Workshop on *“Moving Beyond Quantitative Attributes in Stated-Response Surveys: Understanding the Role of Qualitative Variables in Travel Choices”*,

- presentation on *“What If Some People Don't Care? Accommodating Low Importance Ratings for Qualitative Attributes in Our Models”*
- December 2011 First Danish Choice Modelling Day, University of Southern Denmark, Odense
Plenary presenter on *“Hybrid choice models”*
- July 2011 Second International Choice Modelling Conference, Oulton Hall, Leeds,
workshop presentation on *“Working with repeated choice data”*
- April 2011 UKTRC Scanning Exercise Workshop 2: Theories of individual-level decision-
making and the modelling of travel behaviour data, Imperial College London,
plenary presenter on *“Individual specific choice behaviour: heterogeneity and the
role of scale, attitudes, decision rules and data processing strategies”*
- January 2010 89th Annual Meeting of the Transportation Research Board, Washington, D.C.
Workshop on *“Fundamentals of Stated-Choice Studies: Practical Guide to
Designing and Implementing Stated-Choice Surveys”*, presentation on *“Discrete
Choice Models and Related Issues”*
- March 2007 Oslo workshop on valuation methods in transport planning, Oslo, presentation on
*“A latent class approach to modelling heterogeneous information processing
strategies in SP studies”*
- November 2006 UK/ Canada Workshop on Urban Energy Efficiency, Toronto, plenary presenter
on *“Consumer response and spatio-temporal behaviour”*
- November 2005 German Aviation Research Society workshop on Benchmarking and Airport
Competition, Vienna, presentation on *“Competition between London Airports”*
- September 2005 First workshop on discrete choice models, EPFL Lausanne, presentation on
“Some issues in modelling the value of travel time savings”
- November 2004 German Aviation Research Society workshop on Slots, Airport Competition and
Benchmarking of Airports, Bremen, presentation on *“Understanding airport
choice behaviour”*
- April 2004 Workshop in computational econometrics and statistics, Neuchatel University,
Switzerland, presentation on *“Recent developments in the area of simulation-
based discrete choice models”*

Invited symposia and workshop participation

- February 2014 OECD round table on *“Forecasting Airport Demand”*, Paris
- May 2010 International Choice Symposium, Key Largo, Florida
- September 2008 OECD round table on *“Airline Competition, Systems of Airports and Intermodal
Connections”*, Paris

Invited seminars

- The University of Queensland, July 2024
*The Choice Modelling Approach to Demand Forecasting: Foundations and Application to
Food and Beverage Choices*
- ETH Zurich, May 2024
*Get me out of this hole: a new approach to identifying and avoiding poor local optima in
choice models*
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- University of Sydney, November 2023
*Get me out of this hole: a new approach to identifying and avoiding poor local optima in
choice models*
- University of Sydney, November 2023
*Leadership seminar, The long road to behaviourally meaningful data driven methods for
travel demand analysis*
- Delft University of Technology, October 2023
*Get me out of this hole: a new approach to identifying and avoiding poor local optima in
choice models*
- Cornell University, September 2023

- Choice Modelling VS AND Machine Learning*
Norwegian University of Life Sciences, April 2023
The best of both worlds: combining behavioural models with machine learning for improved out-of-distribution forecasting
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- University of Sydney, November 2022
Leadership seminar, Reappraising our data sources for value of travel time estimation
- University of Sydney, November 2022
Combine and conquer: bringing together choice modelling, machine learning and mathematical psychology for better demand forecasting
- Beijing Jiaotong University, September 2022
Modelling choices: the conflict between realism, ease of implementation and prediction performance
- Kyoto University, July 2022
Using a mathematical representation of brain processes to explain choices: introducing the free energy principle to mainstream choice modelling
- Kobe University, July 2022
Estimation of value of travel time measures from mobile phone and GPS data
- Nagoya University, July 2022
Modelling choices: the conflict between realism, ease of implementation and prediction performance
- Hiroshima University, July 2022
Understanding preferences for COVID-19 vaccination: results from a unique longitudinal stated choice study covering 18 countries across 6 continents
- ETH Zurich, April 2022
The path towards herd immunity: predicting COVID-19 vaccination uptake through results from a stated choice study across six continents
- University of Illinois, March 2022
Applying ideas from mathematical psychology to real-world problems
- Delft University of Technology, March 2022
Modelling choices: the conflict between realism, ease of implementation and prediction performance
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- Universidad del Norte, Barranquilla, Colombia, October 2021
Deriving transport appraisal values from emerging data sources
-
- University College London, January 2020
Dynamic models for choices in dynamic settings
-
- Pontificia Universidad Católica de Chile, December 2019
Apollo: a flexible, powerful and customisable freeware package for choice model estimation and application
- University of Sydney, November 2019
Model Averaging in Choice Modelling: Applications to model structure and identifying sources of heterogeneity
- Dartmouth College, October 2019
Model Averaging in Choice Modelling: Applications to model structure and identifying sources of heterogeneity
- Erasmus University Rotterdam, September 2019
Choice modelling in health: a view from across the great discipline divide
- Universidad del Norte, Barranquilla, Colombia, June 2019
Choice modelling: the why, when and how to (try to) predict human behaviour
- Universidad de Chile, Santiago, June 2019
On the development of choice models based on quantum theory
- National University of Singapore, May 2019

- Modelling complex choices with real world data*
Kyoto University, March 2019
- Modelling complex choices with real world data*
Kobe University, March 2019
- An introduction to choice modelling using the Apollo package*
The difficult task of making predictions of human behaviour
Two new departures for choice modelling - neuro-science and virtual reality
Nagoya University, March 2019
- Modelling complex choices with real world data*
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- ETH Zurich, December 2019
Homo economicus vs the reptilian brain: bridging the gap between choice modelling, mathematical psychology and neuro-science
- University of Queensland, November 2018
From brainwaves to utilities: What can choice modellers learn from neuroscience and mathematical psychology?
- University of Sydney, November 2018
What happens in the brain need not stay in the brain: choice modelling meets mathematical psychology and neuro-science
- University of Southern California, Los Angeles, July 2018
From behaviour to data to models and back again: where next for understanding and predicting human decision-making?
- University of Cape Town, April 2018
I know what you will do next: how to model human decision making and why it matters
- Swedish University of Agricultural Sciences, May 2018
Capturing, understanding and predicting behaviour: not as easy as some will tell you, not as impossible as others may think
-
- University of Sydney, November 2017
Cassandra curse for modellers: making true predictions and getting people to listen to them
- Sheffield University, October 2017
Hybrid choice modelling: reflections on theory and practice and applications to back pain and intravenous antibiotic treatment
-
- University of Western Australia, September 2016
How much do travellers value time: new evidence from the UK
Moving away from random utility: do the gains really outweigh the losses?
- Pontificia Universidad Católica de Chile, June 2016
Estimation of new economic transport measures for Singapore
- Transport for New South Wales, Sydney, December 2016
Developments in choice modelling and challenges for practice
-
- University of South Australia
Specification and estimation of behavioural models for the 2015 UK value of time study
- University of Sydney
How much do travellers value time: new evidence from the UK
- University of Leeds
Specification and estimation of behavioural models for the 2015 UK value of time study
- KTH Royal Institute of Technology in Stockholm
Specification and estimation of behavioural models for the 2015 UK value of time study
- University of Aberdeen
Incorporating attitudinal constructs - Theory and an application to back pain, June 2015
- University of Pretoria
Can behavioural science help in guiding policy decisions - a modeller's view, March 2015
- Northwestern University, Illinois

What can choice modelling learn from behavioural economics and does it matter?, January 2015

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Hong Kong Polytechnic University

Indirect inference in large scale applications, November 2014

Land Transport Authority (LTA), Singapore

Choice modelling: background and recent issues, November 2014

University of California at Santa Barbara, June 2014

Computation of willingness-to-pay measures from random utility models

University of California at Irvine, May 2014

A mixed random utility - Random regret model linking the choice of decision rule to latent character traits

University of Sydney, April 2014

Leadership seminar, Putting behaviour (back) into choice modelling: what are the benefits for transport research

Stirling University, March 2014

Intra-respondent heterogeneity in a stated choice survey on wetland conservation in Belarus: first steps towards creating a link with uncertainty in contingent valuation

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Delft University of Technology, November 2013

Maximise your utility by minimising your regret: contrasts between two decision paradigms

Resource Systems Group, September 2013

Random utility maximisation and random regret minimisation

Consistency (or lack thereof) between choices in best-worst surveys

Developing advanced route choice models for heavy goods vehicles using GPS data

Catholic University of Leuven, April 2013

Separating scale heterogeneity and coefficient heterogeneity: misunderstandings and a way forward

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VU University Amsterdam, September 2012

When explanatory variables are unobserved: the example of latent income

Pontificia Universidad Católica de Chile, August 2012

Advantages of latent class over continuous mixture of Logit models

University of Sydney, May 2012

Attribute importance, fungibility, and thoughts on attending to non-attendance (or why not to)

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Waikato Management School, University of Waikato, November 2011

Incorporating attitudes in choice models

University of Technology Sydney, November 2011

Can scale and coefficient heterogeneity be separated in random coefficients models?

University of Sydney, November 2011

Making use of respondent reported processing information to understand attribute importance: a latent variable scaling approach

Academic Unit of Health Economics, University of Leeds

Incorporating attitudes in choice models

University of the Basque Country, Bilbao

Incorporating attitudes in choice models

Università della Svizzera italiana, Lugano, April 2011

Linking response quality to survey engagement: a combined random scale and latent variable approach

Scottish Agricultural College, January 2011

Accounting for latent attitudes in an analysis of the willingness to pay for improved water quality by beach visitors in Tobago

Queen's University Belfast, January 2011

Mixing of behavioural processes: a concept and four case studies

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- University of Technology Sydney, November 2010
Linking response quality to survey engagement: a combined random scale and latent variable approach
- University of Sydney, November 2010
Mixing of behavioural processes: a modelling framework and four case studies
- Resource Systems Group, September 2010
Accounting for latent attitudes in discrete choice models
- ETH Zurich, June 2010
Trends in air travel behaviour research
- Catholic University of Leuven, March 2010
Random scale heterogeneity in discrete choice models
- University of Manchester, February 2010
Accounting for uncertainty in modelling travellers' preferences for different bus fare structures
-
- University of Rome (III), July 2009
Non-trading, lexicographic and inconsistent behaviour in SP choice data
- Loughborough University, June 2009
Modelling air travel behaviour
- Resource Systems Group, May 2009
Random scale heterogeneity in discrete choice models
- Massachusetts Institute of Technology, May 2009
Random scale heterogeneity in discrete choice models
- Queen's University Belfast, January 2009
Calculating errors for measures derived from choice modelling estimates
-
- University of Sydney, December 2008
Allowing for differences across respondents in information processing strategies
- University of Westminster, November 2008
Air travel choice behaviour workshop
- Resource Systems Group, August 2008
Allowing for differences across respondents in information processing strategies
-
- University of Sydney, September 2007
Non-trading, lexicographic and inconsistent behaviour in SP choice data
- Resource Systems Group, July 2007
Stated preference models for air travel behaviour
- University of Leeds, March 2007
Intra-respondent taste heterogeneity in instantaneous panel surveys
- RAND Europe, March 2007
Intra-respondent taste heterogeneity in instantaneous panel surveys
- Technical University of Copenhagen, February 2007
Some lessons for working with repeated choice data
-
- ETH Zurich, December 2006
Swiss valuation of travel time
- Massachusetts Institute of Technology, October 2006
Advanced discrete choice models with applications to transport demand
- Monash University, May 2006
Understanding air travel choice behaviour
- University of Sydney, May 2006
Understanding air travel choice behaviour
-
- University of Technology Sydney, December 2005

- Modelling variations in the valuation of travel time savings*
Imperial College London, October 2005
- Modelling variations in the valuation of travel time savings*
Universidad de Chile, July 2005
- Modelling variations in the value of travel-time savings*
Pontificia Universidad Católica de Chile, June 2005
- Modelling air-travel choice behaviour*
University of Westminster, June 2005
- Modelling passengers' choice of airport*
UK Civil Aviation Authority, March 2005
- Specification and Estimation of Discrete Choice models*
RAND Europe, February 2005
- Modelling air-travel choice behaviour in multi-airport regions*
-
- University of Leeds, November 2004
Analysing air-travel choice behaviour
- University of York, November 2004
Analysing air-travel choice behaviour
- Massachusetts Institute of Technology, October 2004
GEV models with random taste coefficients
- Laval University Quebec, October 2004
Estimation of value of travel-time savings, Canada, October 2004.
- Northwestern University
Improvements in the efficiency of simulation-based estimation processes
- University of Westminster, October, 2004
Models for the joint analysis of airport, airline and access-mode choice for passengers departing from the San Francisco Bay area
- EPFL Lausanne, August 2004
Distributional assumptions in advanced discrete choice models
- Technical University Copenhagen, June 2004
Estimation of VOT in models allowing for random travel time coefficients
Structures for the joint modelling of correlation between alternatives and taste heterogeneity across decision-makers
- ETH Zurich, April 2004
Mixed GEV Models
-
- University of York, November 2003
Recent developments in the area of simulation-based estimation of discrete choice models
- University of Leeds, November 2003
Recent developments in the area of simulation-based estimation of discrete choice models
- University of Namur, November 2003
Recent developments in the estimation of mathematical models based on integrals without a closed-form solution
- Houses of Parliament, London, March 2003
The Effectiveness of U.K. Speed Camera Programmes", SET Annual Reception
- RAND Europe, Cambridge, January 2003
An Analysis of the Effects of Speed Limit Enforcement Cameras on Accident Rates

JOURNAL RESPONSIBILITIES

Editorial roles

- 06/2007 – present Editor-in-chief (founding) of the *Journal of Choice Modelling*
 01/2013 – 12/2018 Associate Editor of *Transportation Research Part E*
 07/2010 – present Member of the Editorial Advisory Board (EAB) of *Transportation*
 04/2007 – present Editorial Board Editor of *Transportation Research Part B*

Guest editor

- Calastri, C., Hess, S. & Sivakumar, A. (2017), Triggers of behavioural change in an evolving world, Selected Papers from the 14th International Conference on Travel Behaviour Research, European Journal of Transport and Infrastructure Research, 17.
 Hess, S. & Sivakumar, A. (2017), Recent developments and future topics in choice modelling for travel behaviour research, Selected Papers from the 14th International Conference on Travel Behaviour Research, Journal of Choice Modelling, 25.
 Hess, S. (2016), Special issue on standalone technical contributions to choice modelling, Journal of Choice Modelling, 21.
 Hess, S., & Scarpa, R. (2010), Specification and interpretation issues in behavioural models used for environmental assessment, special issue of *Transportation Research Part D*, 15(7).
 Hess, S. & Polak, J.W. (2007), Selected papers on applications of discrete choice models presented at the European Regional Science conference, special issue of *Transportation Research Part A*, 41(9)

CONFERENCE ORGANISATION

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|-------------------|--|
| May 2022 | Chair: seventh International Choice Modelling Conference, Reykjavik |
| August 2019 | Co-chair: sixth International Choice Modelling Conference, Kobe |
| April 2017 | Co-chair: fifth International Choice Modelling Conference, Cape Town |
| July 2015 | Chair: 14 th International Conference on Travel Behaviour Research, Windsor |
| July 2011 | Chair: second International Choice Modelling Conference, Oulton Hall, Leeds |
| March 2009 | Organiser: Inaugural International Choice Modelling Conference, Harrogate |
| 03/2009 – present | Chair of the steering committee of the International Choice Modelling Conference |

SPECIAL SESSION ORGANISATION AT INTERNATIONAL CONFERENCES

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| May 2015 | Workshop organiser (with Caspar Chorus) on “Behavioural Choice Modelling: Much Ado About Nothing?”, 4 th International Choice Modelling Conference, Austin, Texas |
| July 2013 | Session track organiser (STO) for travel behaviour stream, 13 th World Conference on Transport Research, Rio de Janeiro |
| July 2010 | Session track organiser (STO) for travel behaviour stream, 12 th World Conference on Transport Research, Lisbon |
| October 2006 | Organiser of “The Rules of the Game”, Transport modelling workshop, European Transport Conference, Strasbourg |
| October 2005 | Organiser of “State of the art and the state of practice in transport modelling”, Transport modelling workshop, European Transport Conference, Strasbourg |
| August 2005 | Organiser of special stream of sessions on “Choice analysis”, European Regional Science Conference, Amsterdam |
| July 2005 | Organiser of special session on “Modelling of air-travel choice behaviour”, Air Transport Research Society Conference, Rio de Janeiro |
| January 2005 | Organiser of special session on “Advanced techniques for modelling air travel choice behaviour”, 84 th Annual Meeting of the Transportation Research Board, Washington DC |

AFFILIATIONS AND MEMBERSHIPS

Scientific committees

- 04/2024 – 06/2025 Member of the Scientific Committee for the 12th Triennial Symposium on Transportation Analysis (TRISTAN), Okinawa, June 2025
- 12/2021 – 06/2022 Member of the Scientific Committee for the 11th Triennial Symposium on Transportation Analysis (TRISTAN), Mauritius Island, June 2022
- 12/2018 – 06/2019 Member of the Scientific Committee for the 10th Triennial Symposium on Transportation Analysis (TRISTAN), Hamilton Island, June 2019
- 09/2015 – 06/2016 Member of the Scientific Committee for the 9th Triennial Symposium on Transportation Analysis (TRISTAN), Aruba, June 2016
- 01/2015 – 10/2015 Member of the scientific committee of URBE - URban freight and BEhavior change, Rome, October 2015
- 07/2014 – 07/2015 Member of the scientific committee of the 18th EWGT (Euro Working Group in Transportation), Delft, July 2015
- 11/2012 – 06/2013 Member of the Scientific Committee for the 8th Triennial Symposium on Transportation Analysis (TRISTAN), San Pedro de Atacama, Chile, June 2013
- 04/2012 – 02/2021 Member of the *Transportation Demand Forecasting* committee, TRB
- 12/2011 – 07/2012 Member of the Scientific Committee of the 13th International Association of Travel Behaviour Research (IATBR) conference, Toronto, July 2012
- 11/2010 – 07/2013 Member of the Scientific Committee of the World Conference on Transport Research Society (WCTRS)
- 10/2010 – 10/2012 Chair of the *Methodological Innovations* committee, European Transport Conference (ETC)
- 03/2009 – 06/2010 Member of the Scientific Committee for the 7th Triennial Symposium on Transportation Analysis (TRISTAN), Tromsø, Norway June 2010
- 01/2009 – 07/2013 Founding chair of the WCTR special interest group on Travel Behaviour
- 10/2008 – 10/2010 Chair of the *Innovative Methods in Transport Analysis, Planning and Appraisal* committee, European Transport Conference (ETC)
- 04/2008 – 01/2017 Member of the *Travel Behaviour and Values* committee, TRB
- 04/2004 – 04/2007 Member of the *Aviation Systems Planning* committee, TRB
- 01/2004 – 10/2008 Member of the *Innovative Methods in Transport Analysis, Planning and Appraisal* committee, European Transport Conference (ETC)

Societies and associations

- 01/2010 – 07/2015 Elected member of the Board of the International Association for Travel Behaviour Research (IATBR)
- 04/2009 – present Founding chair of the International Choice Modelling Conference series
- 10/2007 – 12/2010 Elected member of the Council of the Association for European Transport (AET)
- 02/2004 – 10/2008 Fellow of the Royal Statistical Society
- 10/2002 – 01/2018 Affiliate of the Transportation Research Board (TRB)

REVIEWING ACTIVITIES

Journals

American Journal of Agricultural Economics
 Analytic Methods in Accident Research
 Australian Journal of Agricultural and Resource Economics
 Energy Economics
 Environment and Development Economics
 Environment and Planning
 Environment and Development Economics
 Environmental Economics and Policy Studies
 Environmental and Resource Economics

European Economic Review
European Journal of Transport and Infrastructure Research
European Review of Agricultural Economics
Health Economics
International Journal of Tourism Research
Journal of Airport Management
Journal of Applied Econometrics
Journal of Business and Economic Statistics
Journal of Choice Modelling
Journal of Economic Surveys
Journal of Environmental Economics and Management
Journal of Mathematical Psychology
Journal of Regulatory Economics
Journal of Transport Economics and Policy
Journal of Transport Geography
Management Science
Networks and Spatial Economics
Omega – The International journal of Management Science
Oxford Bulletin of Economics and Statistics
Public Transport
Psychometrika
Regional Science and Urban Economics
Resource and Energy Economics
Science of the Total Environment (SOTEN)
Social Science Research
Southern Economic Journal
The Service Industries Journal
Theory and Decision
Tourism Management
Transport Geography
Transportation
Transportation Letters
Transportation Research Part A
Transportation Research Part B
Transportation Research Part C
Transportation Research Part D
Transportation Research Part E
Transportmetrica A: Transport Science
Transportmetrica B : Transport Dynamics
Transport Policy
Transport Reviews
Transportation Science

International conferences

Air Transport Research Society
European Transport Conference
International Association of Travel Behaviour Research
Symposium of the European Association for Research in Transportation
Transportation Research Board
TRB Conference on Innovations in Travel Modelling
Triennial Symposium on Transportation Analysis (TRISTAN)
URBE 2015 - URban freight and BEhavior change
World Conference on Transport Research Society

Review of research proposals

European Cooperation in the field of Scientific & Technical Research: COST
Katholieke Universiteit Leuven (Belgium)
The Research Foundation – Flanders, FWO (Belgium)
Marsden Fund (New Zealand)
Medical Research Council (MRC)
Netherlands Organisation for Scientific Research (NWO)
UK Engineering and Physical Sciences Research Council: (EPSRC)
UK Economic and Social Research Council: (ESRC)
US National Science Foundation (NSF)
Singapore National Research Foundation

Other reviewing activities

PhD dissertations submitted for the Eric Pas Eric prize for the best PhD thesis in the field of Travel Behaviour Research, International Association for Travel Behaviour Research

EXTENDED ACADEMIC VISITS (EXCEEDING ONE WEEK)

March 2024	Centre for Transport Studies, University of Cape Town
March 2023	Centre for Transport Studies, University of Cape Town
November 2023	Institute of Transport and Logistics Studies, University of Sydney
November 2022	Institute of Transport and Logistics Studies, University of Sydney
June 2022	Centre for Transport Studies, University of Cape Town
December 2020	Centre for Transport Studies, University of Cape Town
November 2019	Institute of Transport and Logistics Studies, University of Sydney
September 2019	Centre for Transport Studies, University of Cape Town
November 2018	Institute of Transport and Logistics Studies, University of Sydney
April 2018	Centre for Transport Studies, University of Cape Town
November 2017	Institute of Transport and Logistics Studies, University of Sydney
November 2016	Institute of Transport and Logistics Studies, University of Sydney
June 2016	Universidad de Concepcion, Chile
June 2016	Universidad de Chile, Santiago, Chile
November 2015	Institute of Transport and Logistics Studies, University of Sydney
May 2014	Institute of Transport and Logistics Studies, University of Sydney
July 2013	Institute of Transport and Logistics Studies, University of Sydney
June 2012	National Cheng Kung University, Tainan, Taiwan
May 2012	Institute of Transport and Logistics Studies, University of Sydney
November 2011	Institute of Transport and Logistics Studies, University of Sydney
November 2010	Centre for the Study of Choice (CenSoC), University of Technology Sydney
November 2010	Institute of Transport and Logistics Studies, University of Sydney
November 2008	Institute of Transport and Logistics Studies, University of Sydney
September 2007	Institute of Transport and Logistics Studies, University of Sydney
April 2006	Waikato Management School, University of Waikato (New Zealand)

HOSTING OF ACADEMIC VISITORS FOR EXTENDED STAYS

02/2020-11/2020	Gloria Amaris Castro, Pontificia Universidad Catolica Chile, PhD visitor
11/2019-05/2020	Ning Huan, Beijing Jiaotong University, PhD visitor
10/2019-03/2020	Hazvinei Moyo, University of Cape Town, postdoc visitor
09/2019-08/2020	Rodrigo Tapia, Universidade Federal do Rio Grande do Sul, postdoc visitor
02/2018-05/2018	Ricardo Daziano, Cornell University, sabbatical visit
02/2017-07/2018	Tatjana Ibraimovic, Università della Svizzera italiana, Lugano, postdoc visitor
04/2015-08/2015	Ilka Ehreke, ETH Zurich, PhD visitor
09/2014-03/2015	David Palma, Pontificia Universidad Católica de Chile, PhD visitor
07/2014-01/2015	Angelo Guevara, Universidad de los Andes, Chile, sabbatical visit
09/2012-09/2014	Nobuhiro Sanko, Kobe University, sabbatical visit
08/2011-09/2011	Amanda Stathopoulos, University of Trieste, Italy, PhD visitor
07/2011-12/2011	Tatjana Ibraimovic, Università della Svizzera italiana, Lugano, PhD visitor
04/2011-10/2011	Julián Arellana, Pontificia Universidad Católica de Chile, PhD visitor
07/2010-08/2010	John Rose, University of Sydney, Australia, visiting academic
01/2010-04/2010	Amanda Stathopoulos, University of Trieste, Italy, PhD visitor

SUPERVISION OF PHD STUDENTS

The role of PhD supervisor is in my view one of the single most important parts of an academic position, and I take great pride in my track record, and care deeply about the success and later trajectories of the students under my supervision. I inspire my students to publish their work in leading journals, as reflected in outstanding outputs, and motivate them to make impactful contributions, which have been recognised by a number of major awards.

Current students

Lorenzo Munoz Torrejon (11/2024 – present)	<u>PhD Topic:</u>	<i>Choice modelling and machine learning</i>
Di Wu (11/2024 – present)	<u>PhD Topic:</u>	<i>Dynamic choice models</i>
Olivia Barnes (03/2024 – present)	<u>PhD Topic:</u>	<i>Developing new behavioural models at the intersection of psychology and econometrics</i>
Gabriel Nova (04/2023 – present)	<u>PhD Topic:</u>	<i>Understanding, automating, and assisting choice modeller's workflows through artificial intelligence</i>
Azam Ali (10/2021 – present)	<u>PhD Topic:</u>	<i>Choice modelling, machine learning and big data</i>

Past students

Khatun Zannat (10/2019 – 05/2024)	<u>PhD Topic:</u>	<i>Improving transportation planning tools for the Global South: applying advanced modelling frameworks to address data issues and accommodate behavioural complexities</i>
	<u>PhD Outputs:</u>	4 published journal paper, 2 under review
Panagiotis Tsoleridis (10/2018 – 06/2022)	<u>PhD Thesis:</u>	<i>Leveraging GPS-based trip diaries for modelling individual mobility behaviour</i>
	<u>PhD Outputs:</u>	4 published journal papers, 1 under review
	<u>Current position:</u>	consultant at ARUP
Martyna Bogacz (07/2017 – 06/2021)	<u>PhD Thesis:</u>	<i>Neural processing of context and information: Implications for behavioural modelling</i>
	<u>PhD Outputs:</u>	3 published journal papers
Bashirul Haque (10/2015 – 11/2020)	<u>PhD Thesis:</u>	<i>Modelling residential location and travel decisions using detailed revealed preference data</i>
	<u>PhD Outputs:</u>	3 published journal papers
Jeff Tjong (10/2015 – 12/2019)	<u>PhD Thesis:</u>	<i>Impacts of survey design and model specification on willingness-to-pay estimates from discrete choice models</i>
	<u>PhD Outputs:</u>	2 published journal papers, 1 under review
	<u>Awards:</u>	2014 Neil Mansfield award, European Transport Conference
Fangqing Song (10/2015 – 11/2019)	<u>PhD Thesis:</u>	<i>Understanding mode choice behaviour when new modes come into play</i>
	<u>PhD Outputs:</u>	3 published journal papers
Evangelos Paschalidis (10/2015 – 10/2019)	<u>PhD Thesis:</u>	<i>Developing driving behaviour models incorporating the effects of stress</i>
	<u>PhD Outputs:</u>	3 published journal papers
Thomas Hancock (03/2016 – 06/2019)	<u>PhD Thesis:</u>	<i>Travel behaviour modelling at the interface between econometrics and mathematical psychology</i>
	<u>PhD Outputs:</u>	6 published journal papers, 2 under review
	<u>Awards:</u>	- Inaugural David A. Hensher 'Best Transport Demand Modelling Paper Prize', Australasian Transport Research Forum (ATRF), Brisbane

	<ul style="list-style-type: none"> - 2019 Eric Pas prize for the best PhD thesis in the field of Travel Behaviour Research, International Association for Travel Behaviour Research - Award for the most innovative application of choice modelling, named in honour of Andrew Daly, 6th International Choice Modelling Conference, Kobe - Best PhD paper, 5th International Choice Modelling Conference, Cape Town
Mauro Capurso (10/2015 – 04/2019)	<p><u>PhD Thesis:</u> <i>Consideration of alternatives: development of hybrid modelling approaches and applications to transport mode choice</i></p> <p><u>PhD Outputs:</u> 3 published journal papers</p>
Louise de Tremerie (10/2014 – 04/2019)	<p><u>PhD Thesis:</u> <i>An application of quantitative and qualitative methods in freight mode choice modelling</i></p>
Andrew Bwambale (10/2015 – 11/2018)	<p><u>PhD Thesis:</u> <i>Developing Travel Behaviour Models Using Mobile Phone Data</i></p> <p><u>PhD Outputs:</u> 4 published journal papers</p>
Chiara Calastri (10/2014 – 09/2017)	<p><u>PhD Thesis:</u> <i>Capturing and modelling complex decision-making in the context of travel, time use and social interactions</i></p> <p><u>PhD Outputs:</u> 6 published journal papers</p> <p><u>Awards:</u> 2017 Eric Pas prize for the best PhD thesis in the field of Travel Behaviour Research, International Association for Travel Behaviour Research</p>
James Fox (part-time, 06/2008 – 06/2015)	<p><u>PhD Thesis:</u> <i>Temporal Transferability of Mode-Destination Models</i></p> <p><u>PhD Outputs:</u> 2 published journal papers</p> <p><u>Awards:</u> <ul style="list-style-type: none"> - 2011 Neil Mansfield award, European Transport Conference, Glasgow - 2010 Fred Burggraf Award, Transportation Research Board </p>
Manuel Ojeda Cabral (09/2011 – 02/2015)	<p><u>PhD Thesis:</u> <i>The Value of Travel Time Changes: Theoretical and Empirical Issues</i></p> <p><u>PhD Outputs:</u> 2 published journal papers</p>
Qian Fu (09/2010 – 11/2014)	<p><u>PhD Thesis:</u> <i>Modelling route choice behaviour with incomplete data: an application to the London Underground</i></p> <p><u>PhD Outputs:</u> 1 published journal paper</p> <p><u>Awards:</u> First runner-up prize of the Hong Kong Society for Transportation Studies Outstanding Student Paper Award</p>
Vikki O'Neill (09/2009 – 05/2012)	<p><u>PhD Thesis:</u> <i>Incorporating attitudinal factors and multi-agent decision making within the context of discrete choice experiments</i></p> <p><u>PhD Outputs:</u> 2 published journal papers</p>

Student scholarship grants

Date of award	Student	Scholarship/Funder	Value
October 2021	Ali Azam	ESRC AQM studentship	£129,504
October 2020	Shuwei Lin	EPSRC funding	£71,792
October 2019	Khatun Zannat	Commonwealth scholarship	TBC
October 2018	Panos Tsoleridis	ESRC WRDTP scholarship	£68,775
October 2015	Fangqing Song	China Scholarship Council (CSC)	undisclosed
October 2015	Evangelos Paschalidis	ESRC fees only award	£12,339
October 2015	Mauro Capurso	Leeds University Anniversary Research Scholarships	£55,164
October 2015	Jeff Tjong	ESRC AQM studentship	£66,767
October 2015	Bashirul Haque	ESRC AQM studentship	£66,767
October 2015	Andrew Bwambale	ESRC AQM studentship	£66,767
October 2014	Louise De Tremerie	Leeds University Anniversary Research Scholarships	£54,399
October 2011	Manuel Ojeda Cabral	ESRC (White Rose Doctoral Training Centre)	£61,250
October 2010	Qian Fu	China Scholarship Council (CSC)	undisclosed
June 2008	James Fox	EPSRC doctoral training grant	£40,600

Externally supervised students with extended stay in Leeds (six month standard)

Gloria Amaris Castro (graduated 2021)	<p><u>PhD Thesis:</u> <i>Understanding the potential demand for the reuse of greywater in urban settings: behavioural models for policy design</i></p> <p><u>Institution:</u> Pontificia Universidad Catolica Chile</p> <p><u>Joint outputs:</u> 4 published journal papers</p>
Ning Huan (graduated 2021)	<p><u>PhD Thesis:</u> <i>Optimization of intermodal passenger transport network in Jing-Jin-Ji urban agglomeration</i></p> <p><u>Institution:</u> Beijing Jiaotong University, China</p> <p><u>Joint outputs:</u> 1 published journal paper, 1 under review</p>
Ilka Ehreke (graduated 2018)	<p><u>PhD Thesis:</u> <i>Understanding the value of travel time: advanced modelling techniques applied to the national German value of travel time and travel time reliability study</i></p> <p><u>Institution:</u> ETH Zurich, Switzerland</p> <p><u>Joint outputs:</u> 1 published journal paper</p>
David Palma (graduated 2016)	<p><u>PhD Thesis:</u> <i>Modelling wine consumer preferences using hybrid choice models: Inclusion of intrinsic and extrinsic attributes</i></p> <p><u>Institution:</u> Pontificia Universidad Católica de Chile</p>
Tatjana Ibraimovic (graduated 2013)	<p><u>PhD Thesis:</u> <i>Investigating the role of ethnic preferences in residential location decisions : Choice analysis on stated preferences data</i></p> <p><u>Institution:</u> Università della Svizzera italiana, Lugano, Switzerland</p> <p><u>Joint outputs:</u> 2 published journal papers</p>
Julián Arellana (graduated 2012)	<p><u>PhD Thesis:</u> <i>Departure time choice models</i></p> <p><u>Institution:</u> Pontificia Universidad Católica de Chile</p> <p><u>Joint outputs:</u> 1 published journal paper</p>
Amanda Stathopoulos (graduated 2012)	<p><u>PhD Thesis:</u> <i>Modeling heterogeneous decision processes and joint decision-making in travel demand models</i></p> <p><u>Institution:</u> University of Trieste, Italy</p> <p><u>Joint outputs:</u> 3 published journal papers</p>

Supervision of Postdoctoral Research Assistants

Thomas Hancock (04/2019 – 12/2020)	<i>Funder:</i> European Research Council
David Palma (02/2017 – 06/2022)	<i>Funder:</i> European Research Council
Hazvinei Moyo (10/2019 – 03/2021)	<i>Funder:</i> University of Cape Town funded
Rodrigo Tapia (02/2019 – 08/2020)	<i>Funder:</i> Internal funding
Jan Brokaert (08/2019 – 06/2020)	<i>Funder:</i> European Research Council
Chiara Calastri (09/2017 – 06/2020)	<i>Funder:</i> European Research Council
Jiwei Zheng (08/2015 – 08/2016)	<i>Funder:</i> European Research Council
Romain Crastes dit Sourd (04/2015 – 09/2019)	<i>Funder:</i> European Research Council
Manuel Ojeda Cabral (01/2015 – 06/2015)	<i>Funder:</i> Internal funding
Thijs Dekker (02/2012 – 01/2013)	<i>Funder:</i> EU FP7 & Danish Research Council

EXAMINATION OF PHD STUDENTS

December 2023	Thomas Schatzmann , ETH Zurich
October 2023	José Ignacio HERNÁNDEZ HERNÁNDEZ , Delft University of Technology
October 2022	Teodóra Szép , Delft University of Technology
February 2021	Gloria Amaris , Pontificia Universidad Católica de Chile
July 2020	Felix Becker , ETH Zurich
December 2018	Ilka Dubernet , ETH Zurich
February 2018	Lila PC , National Institute of Technology Calicut
November 2016	Alexandros Dimitropoulos , VU University Amsterdam
June 2016	David Palma Araneda , Pontificia Universidad Católica de Chile
December 2015	Laura-Lucia Richter , University of Cambridge
February 2014	Ruihua Lu , Delft University of Technology
November 2013	Qian Wang , KTH Stockholm
November 2013	Sander van Cranenburgh , Delft University of Technology
June 2013	Marjolein Crabbe , Catholic University of Leuven
May 2013	Tatjana Ibraimovic , Università della Svizzera italiana, Lugano
April 2013	Christiaan Behrens , VU University Amsterdam
September 2012	Thijs Dekker , VU University Amsterdam
August 2012	Julián Arellana , Pontificia Universidad Católica de Chile
April 2012	Amanda Stathopoulos , University of Trieste
April 2011	Thomas Robin , EPFL Lausanne
June 2010	Cristian Angelo Guevara-Cue , Massachusetts Institute of Technology
June 2010	Nadine Schuessler , ETH Zurich

TEACHING ACTIVITIES

In addition to the teaching activities in universities outlined below, I have also run private courses for various industrial and public body clients, as well as one-off courses at a number of universities, including Imperial College London and National Cheng Kung University, Taiwan.

<p>Choice modelling and stated preference survey design (TRAN5282M)</p>	<p><u>Audience:</u> Postgraduate students (MSc & PhD) <u>Institution:</u> University of Leeds <u>Contact hours:</u> 30 <u>Share of teaching:</u> 80% <u>Role:</u> Course organiser and lead teacher <u>Years taught:</u> 2009 – present <u>Contents:</u> Introductory course to choice modelling and data collection techniques, covering both theory and applied topics, with a focus on transport.</p>
<p>Advanced choice modelling (CPD)</p>	<p><u>Audience:</u> PhD students, Academics, Consultants <u>Institution:</u> External continuing professional development (CPD) course organised by University of Leeds, taught in Leeds or London <u>Contact hours:</u> 18 <u>Share of teaching:</u> 60% <u>Role:</u> Course organiser and lead teacher <u>Years taught:</u> 2016 – present <u>Contents:</u> Advanced course targeted at users with a solid knowledge of choice modelling. The course covers numerous advanced topics on model specification and estimation.</p>
<p>Choice modelling and stated choice survey design (CPD)</p>	<p><u>Audience:</u> PhD students, Academics, Consultants <u>Institution:</u> External continuing professional development (CPD) course organised by University of Leeds, taught in Leeds or London <u>Contact hours:</u> 30 <u>Share of teaching:</u> 60% <u>Role:</u> Course organiser and lead teacher <u>Years taught:</u> 2015 – present <u>Contents:</u> Cross-disciplinary course on choice modelling and stated choice techniques, covering both theory and applied topics, including introduction to key software.</p>
<p>Understanding and Predicting Choice Behaviour in Health: Preference Elicitation and Analysis (CPD)</p>	<p><u>Audience:</u> PhD students, Academics, Consultants <u>Institution:</u> External continuing professional development (CPD) course organised by the Health Economics Research Centre (HERC), University of Oxford <u>Contact hours:</u> 15 <u>Share of teaching:</u> 60% <u>Role:</u> Course co-organiser and lead teacher <u>Years taught:</u> 2021 – present <u>Contents:</u> Health economics focussed course covering theory and practice in the elicitation and modelling of health preferences.</p>

<p>Discrete Choice Modelling and Stated Choice Survey Design (CIV5127Z)</p>	<p><u>Audience:</u> Postgraduate students (MSc & PhD) <u>Institution:</u> University of Cape Town <u>Contact hours:</u> 30 <u>Share of teaching:</u> 60% <u>Role:</u> Module leader <u>Years taught:</u> 2015, 2018, 2021, 2023 <u>Contents:</u> Introductory course covering basic topics in choice modelling and stated choice surveys, including a key focus on applying these techniques in a developed world context.</p>
<p>Choice modelling and stated preference survey design (CPD)</p>	<p><u>Audience:</u> PhD students, Academics, Consultants, civil servants <u>Institution:</u> National University Singapore <u>Contact hours:</u> 16 <u>Share of teaching:</u> 100% <u>Role:</u> Module leader <u>Years taught:</u> 2014, 2017, 2019 <u>Contents:</u> High level overview of choice modelling techniques, including a basic introduction to survey design and model estimation.</p>
<p>Diploma of Advanced Studies Verkehrsingenieurwesens (CPD, taught in German)</p>	<p><u>Audience:</u> public/private sector <u>Institution:</u> ETH Zurich <u>Contact hours:</u> 16 <u>Share of teaching:</u> 33% (“Messung des Verkehrsverhaltens”) <u>Role:</u> Guest lecturer <u>Years taught:</u> 2012, 2013, 2015 <u>Contents:</u> Responsible for component of the course relating to the use of choice models for travel demand modelling.</p>
<p>Messung & Modellierung (101-0478-00L, Measuring & Modelling, taught in German)</p>	<p><u>Audience:</u> Postgraduate students (MSc & PhD) <u>Institution:</u> ETH Zurich <u>Contact hours:</u> 30 <u>Share of teaching:</u> 75% <u>Role:</u> Module leader <u>Years taught:</u> 2007, 2011, 2013 <u>Contents:</u> Course covering key topics in data collection for travel behaviour studies, including the analysis of such data using statistical techniques and discrete choice models</p>
<p>Choice modelling short course (CPD, taught in German)</p>	<p><u>Audience:</u> public/private sector <u>Institution:</u> ETH Zurich <u>Contact hours:</u> 12 <u>Share of teaching:</u> 50% <u>Role:</u> Guest lecturer <u>Years taught:</u> 2006, 2007, 2010 <u>Contents:</u> High level overview of choice modelling techniques, including a basic introduction to survey design and model estimation.</p>
<p>Summer School on Discrete Choice Modelling (CPD)</p>	<p><u>Audience:</u> postgraduate & public/private sector <u>Institution:</u> University of Bologna <u>Contact hours:</u> 60 <u>Share of teaching:</u> 25% <u>Role:</u> Guest lecturer <u>Years taught:</u> 2008, 2009</p>

	<p><u>Contents:</u> Two week in-depth course covering all topics on choice modelling from data collection, initial analysis, through to advanced modelling.</p>
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EXTERNALLY FUNDED RESEARCH PROJECTS

SYNERGY: Developing new behavioural models at the intersection of psychology, econometrics and machine learning	<p><u>Funder:</u> European Research Council <u>Project type:</u> Advanced Grant (101020940) <u>Role:</u> Principal Investigator <u>Award date:</u> 04/2021 <u>Timing:</u> 02/2022 – 01/2028 <u>Value:</u> £2,169,220 <u>Synopsis:</u> This project will bring together theories from choice modelling, mathematical psychology and machine learning to develop next generation data driven behavioural models.</p>
APOLLO: Further development of the Apollo software	<p><u>Funder:</u> European Research Council <u>Project type:</u> Proof of Concept (875692) <u>Role:</u> Principal Investigator <u>Award date:</u> 07/2019 <u>Timing:</u> 02/2020-06/2022 <u>Value:</u> £135,135 <u>Synopsis:</u> This grant funded further developments of the Apollo package for choice modelling, including speed improvements and the inclusion of new model types.</p>
Studying the decoy effect	<p><u>Funder:</u> Leverhulme Trust <u>Project type:</u> Visiting Professorship for Dr Cristian Angelo Guevara Cue <u>Role:</u> Principal Investigator <u>Award date:</u> 10/2015 <u>Timing:</u> 11/2015-12/2016 <u>Value:</u> £7,900 <u>Synopsis:</u> This grant funded a sabbatical visit by Dr Angelo Guevara to the University of Leeds, leading to joint work on endogeneity corrections for choice models.</p>
Incorporating latent attitudes for sustainable planning and management of landscapes	<p><u>Funder:</u> Ministerio de Ciencia y Tecnología (Spain) <u>Project type:</u> Responsive mode <u>Role:</u> International partner investigator <u>Award date:</u> 04/2015 <u>Timing:</u> 04/2015-12/2018 <u>Value:</u> £9,800 <u>Synopsis:</u> This grant supported an international collaboration on research into the use of latent variables.</p>
Investigating travel choice behaviour: a new approach	<p><u>Funder:</u> Australian Research Council <u>Project type:</u> Discovery Grant (DP150103299) <u>Role:</u> International partner investigator <u>Award date:</u> 11/2014 <u>Timing:</u> 03/2015-12/2019 <u>Value:</u> £363,555 <u>Synopsis:</u> This grant funded innovative work in merging methods from stated choice surveys, experimental economics, and naturalistic driving simulators.</p>
Provision of market research for value of time savings and reliability	<p><u>Funder:</u> UK Department for Transport <u>Project type:</u> Framework proposal <u>Role:</u> Co-investigator <u>Award date:</u> 05/2014 <u>Timing:</u> 05/2014-04/2015 <u>Value:</u> £1,501,947</p>

	<p><u>Synopsis:</u> This grant funded the work leading to the development of new official value of travel time measures for the United Kingdom, now part of official guidance.</p>
DECISIONS: Choices and consumption: modelling long and short term decisions in a changing world	<p><u>Funder:</u> European Research Council <u>Project type:</u> Consolidator grant (615596) <u>Role:</u> Principal Investigator <u>Award date:</u> 12/2013 <u>Timing:</u> 07/2014-06/2020 <u>Value:</u> £1,564,173 <u>Synopsis:</u> This grant led to numerous developments in choice modelling, including bridging the gaps with mathematical psychology, the exploitation of new data sources, and the development of the Apollo software.</p>
Evaluation of patient preferences for and cost effectiveness of community intravenous antibiotic services	<p><u>Funder:</u> National Institute for Health Research (NIHR) <u>Project type:</u> Responsive mode (11/2003/60) <u>Role:</u> Co-investigator <u>Award date:</u> 7/2012 <u>Timing:</u> 01/2013-12/2015 <u>Value:</u> £402,614 <u>Synopsis:</u> This grant funded mixed methods research into patient preferences for and cost effectiveness of outpatient parenteral antimicrobial therapy in the UK.</p>
Foundational Knowledge to Support a Long-Distance Passenger Travel Demand Modeling Framework	<p><u>Funder:</u> US Federal Highway Administration <u>Project type:</u> Exploratory Research Grant (DTFH61-10-R-00036) <u>Role:</u> Co-investigator (Principal Investigator for Leeds) <u>Award date:</u> 7/2011 <u>Timing:</u> 09/2011-09/2014 <u>Value:</u> £592,923 <u>Synopsis:</u> This grant funded exploratory research into the development of the first nationwide long distance transport model for the United States.</p>
Freight Route Choice Using GPS Data	<p><u>Funder:</u> UK Department for Transport <u>Project type:</u> Framework proposal <u>Role:</u> Principal Investigator <u>Award date:</u> 4/2011 <u>Timing:</u> 04/2011-08/2011 <u>Value:</u> £45,330 <u>Synopsis:</u> This grant funded exploratory research into the use of Global Positioning System (GPS) data for route choice modelling for freight.</p>
ACTUM Analyses of activity-based travel chains and sustainable mobility	<p><u>Funder:</u> Danish Strategic Research Council <u>Project type:</u> Responsive mode grant (10-086415) <u>Role:</u> Co-investigator (Principal Investigator for Leeds) <u>Award date:</u> 12/2010 <u>Timing:</u> 03/2011 – 03/2016 <u>Value:</u> £2,722,540 <u>Synopsis:</u> This grant funded exploratory research into the development of the first prototype activity based model for Copenhagen.</p>
Transtools III: Transport modelling for policy impact assessment	<p><u>Funder:</u> EU <u>Project type:</u> FP7 Cooperation Work Programme (266182) <u>Role:</u> Co-investigator (Principal Investigator for Leeds) <u>Award date:</u> 7/2010 <u>Timing:</u> 01/2011 – 12/2015</p>

	<p><u>Value:</u> £1,607,383</p> <p><u>Synopsis:</u> This grant funded exploratory research into the development of the next general transport model for the European Union, including a focus on data sources.</p>
Estimation of travel demand models from panel data	<p><u>Funder:</u> Engineering and Physical Sciences Research Council (EPSRC)</p> <p><u>Project type:</u> Responsive mode grant (EP/G033609/1)</p> <p><u>Role:</u> Principal investigator</p> <p><u>Award date:</u> 12/2008</p> <p><u>Timing:</u> 02/2009 – 10/2010</p> <p><u>Value:</u> £90,865</p> <p><u>Synopsis:</u> This grant funded research into appropriate ways of dealing with repeated choice data in the estimation of advanced choice models, including error corrections.</p>
Advances in modelling human choice behaviour	<p><u>Funder:</u> Leverhulme Trust</p> <p><u>Project type:</u> Leverhulme Early Career Fellowship</p> <p><u>Role:</u> Principal Investigator</p> <p><u>Award date:</u> 5/2008</p> <p><u>Timing:</u> 10/2008 – 10/2010</p> <p><u>Value:</u> £59,500</p> <p><u>Synopsis:</u> This early career fellowship supported several methodological developments, including the exploration of behavioural flexibility in choice models.</p>

MAJOR INPUT TO OTHER PROJECTS WITHOUT INVESTIGATOR ROLE

04/2018 – 11/2018	TPA Modelling Capability Review – Quality Assurance, Transport for New South Wales (Australia)
11/2011 – 11/2013	Optimised Co-Modal PASSenger transport for reducing carbon emissions (COMPASS), EU FP7 Cooperation Work Programme
02/2011 – 02/2013	Optimal Regulation and Infrastructure for Ground, Air and Maritime Interfaces (ORIGAMI), EU FP7 Cooperation Work Programme
06/2009 – 06/2011	INTERCONNECTION between short- and long-distance transport networks, EU FP7 Cooperation Work Programme
05/2009 – 05/2010	Updating Appraisal Values for Travel Time Savings, UK Department for Transport
09/2008 – 02/2009	Peer review of valuation of the overcrowding on rail services, UK Department for Transport
08/2008 – 09/2008	Speed Limit Adherence and its Effect on Road Safety and Climate Change, Commission for Integrated Transport and the Motorists' Forum
05/2008 – 06/2008	Acceptability and Effectiveness of Potential Developments of Road User Charging in London, Transport for London
05/2008 – 03/2009	Bus soft factors, UK Department for Transport
06/2006 – 06/2007	Value of travel time savings for passenger traffic: Perception and Distance dependency, Swiss Association of Transportation Engineers (SVI)
01/2006 – 07/2006	Review of Travel Time Variability, UK Department for Transport
09/2005 – 11/2005	Reestimation of Swiss Value of Time, Swiss Federal Roads Authority
01/2004 – 01/2005	Modelling Mode and Time of Day, UK Department for Transport

PUBLICATIONS

The publications listed here are divided into three groups. After listing edited books, I first show papers published in peer reviewed academic journals, before listing conference papers. I have written papers with over 200 different co-authors, from academia and industry, and from across the world. The majority of my papers have also been presented at international conferences, and almost all conference papers are subsequently submitted for journal publication.

Edited books

- EB4** Hess, S. & Daly, A. (2024), Handbook of choice modelling, second edition, Edward Elgar publishers, Cheltenham. <https://doi.org/10.4337/9781800375635>
- EB3** Hess, S. & Daly, A. (2014), Handbook of choice modelling, Edward Elgar publishers, Cheltenham. <https://doi.org/10.4337/9781781003152>
- EB2** Hess, S. & Daly, A. (2013), Choice Modelling: the state-of-the-art and the state-of-practice, Edward Elgar publishers, Cheltenham. <https://doi.org/10.4337/9781781007273>
- EB1** Hess, S. & Daly, A. (2010), Choice Modelling: the state-of-the-art and the state-of-practice; Proceedings from the Inaugural International Choice Modelling Conference, Emerald, Bingley. <https://doi.org/10.1108/9781849507738>

Peer reviewed journal publications

- J183** Tsoleridis, P., Hess, S. & Choudhury, C.F. (2025), Accounting for continuous correlations among alternatives in the context of spatial choice modelling using high resolution mobility data, *Transportmetrica Part A*, forthcoming. <https://doi.org/10.1080/23249935.2024.2401425>
- J182** Huan, N., Hess, S., Yamamoto T. & Yaob, E. (2025), Modelling intermodal traveller behaviour in mega-city regions: Simultaneous versus sequential estimation frameworks, *Transportation*, forthcoming. <https://doi.org/10.1007/s11116-024-10489-2>
- J181** Buckell, J., Palma, D.A., Hess, S., Jebb, S. & Piernas, C. (2025), Taxing saturated fat versus behavioural interventions: Multiple discrete-continuous extreme value (MDCEV) models within a randomized controlled trial of shopping behaviour, *Food Policy*, Volume 132, April 2025, 102836. <https://doi.org/10.1016/j.foodpol.2025.102836>
- J180** Zannat, K.E., Choudhury, C.F. & Hess, S. (2024), Modelling time-of-travel preferences capturing correlations between departure times and activity durations, *Transportation Research Part A* 184, 104081. <https://doi.org/10.1016/j.tra.2024.104081>
- J179** Zannat, K.E., Laudan, J., Choudhury, C.F. & Hess, S. (2024), Developing an agent-based microsimulation for predicting the Bus Rapid Transit (BRT) demand in developing countries: A case study of Dhaka, Bangladesh, *Transport Policy*, 148 pp. 92-106. <https://doi.org/10.1016/j.tranpol.2023.12.014>
- J178** Zannat, K.E., Choudhury, C.F., Hess, S. & Watling, D. (2024), Investigating the relative accuracy of GPS, GSM and CDR data for inferring spatiotemporal travel trajectories, *IET Intelligent Transport Systems*, 18(S1), pp. 3013-3033. <https://doi.org/10.1049/itr2.12563>
- J177** Wang S., Mo, B. Zheng, Y., Hess, S. & Zhao, J. (2024), Comparing hundreds of machine learning and discrete choice models for travel demand modeling: an empirical benchmark, *Transportation Research Part B*, 190, 103061. <https://doi.org/10.1016/j.trb.2024.103061>
- J176** Feng, S., Yao, R., Hess, S., Daziano, R.A., Brathwaite, T., Walker, T. & Wang, S. (2024), Deep neural networks for choice analysis: Enhancing behavioral regularity with gradient regularization, *Transportation Research Part C: Emerging Technologies*, 166, 104767. <https://doi.org/10.1016/j.trc.2024.104767>
- J175** Hancock, T.O., Hess, S., Choudhury, C.F., Tsoleridis, P. (2024), Decision field theory: An extension for real-world settings, *Journal of Choice Modelling*, 52, 100495. <https://doi.org/10.1016/j.jocm.2024.100495>
- J174** Czine, P., Balogh, P., Blága, Z., Szabó, Z., Szekeres, R., Hess, S., Juhász, B. (2024), Is It Sufficient to Select the Optimal Class Number Based Only on Information Criteria in Fixed- and Random-Parameter Latent Class Discrete Choice Modeling Approaches? *Econometrics* 2024, 12, 22. <https://doi.org/10.3390/econometrics12030022>

- J173** Song, F., Hess, S. & Dekker, T. (2024), Uncovering the link between intra-individual heterogeneity and variety seeking: the case of new shared mobility, *Transportation*, 51, pp. 371–406. <https://doi.org/10.1007/s11116-022-10334-4>
- J172** Amaris, G., Vesely, V., Hess, S. & Klöckner, C.A. (2024), Can competing demands affect pro-environmental behaviour: a study of the impact of exposure to partly related sequential experiments, *Ecological Economics*, 216, 108023. <https://doi.org/10.1016/j.ecolecon.2023.108023>
- J171** Amaris, G., Arellana, J., Beck, M., Behrens, R., Calastri, C., Hess, S., Song, F., Tamuka Moyo, H.T. & Zuidgeest, M. (2024), A multi-country panel study of behaviour, perceptions and expectations during different stages of the COVID-19 pandemic, *Travel Behaviour and Society*, 34, 100676. <https://doi.org/10.1016/j.tbs.2023.100676>
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- J170** Daly, A., Hess, S. & Ortúzar, J. de D. (2023), Estimating willingness-to-pay from discrete choice models: Setting the record straight, *Transportation Research Part A*, 176, 103828. <https://doi.org/10.1016/j.tra.2023.103828>
- J169** Calastri, C., Hess, S. & Wilson, B. (2023), How did the use of Emergency Departments (ED) change during the first wave of the SARS-CoV-2 pandemic in the UK: an observational study, *Emergency Medicine Journal*, 40, pp. 518-524. <https://doi.org/10.1136/emered-2021-212058>
- J168** Webb, E.J.D., Meads, D., Lynch, Y., Randall, N., Judge, S., Goldbart, J., Meredith, S., Moulam, L., Hess, S. & Murray, J. (2023), Something for everybody? Assessing the suitability of AAC systems for children using stated preference methods, *Augmentative and Alternative Communication*, 39(3), pp. 157-169. <https://doi.org/10.1080/07434618.2023.2206582>
- J167** Hoen, F.S., Díez-Gutiérrez, M., Babri, S., Hess, S. & Tørset, T. (2023), Charging electric vehicles on long trips and the willingness to pay to reduce waiting for charging. Stated preference survey in Norway, *Transportation Research Part A: Policy and Practice*, 175, 103774. <https://doi.org/10.1016/j.tra.2023.103774>
- J166** Calastri, C., Giergiczny, M., Zedrosser, A. & Hess, S. (2023), Modelling activity patterns of wild animals - an application of the Multiple Discrete-Continuous Extreme Value (MDCEV) model, *Journal of Choice Modelling*, 47, 100415. <https://doi.org/10.1016/j.jocm.2023.100415>
- J165** Meester, D.A.J., Hess, S., Buckell, J. & Hancock, T.O. (2023), Can decision field theory enhance our understanding of health-based choices? Evidence from risky health behaviors. *Health Economics*, 32(8), pp. 1710-1732. <https://doi.org/10.1002/hec.4685>
- J164** Tsoleridis, P., Choudhury, C. & Hess, S. (2023), Probabilistic choice set formation incorporating activity spaces into the context of mode and destination choice modelling, *Journal of Transport Geography*, 108, 103567. <https://doi.org/10.1016/j.jtrangeo.2023.103567>
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- J163** Huan, N., Hess, S., Yao, E. & Liu, W. (2022), Time-dependent pricing strategies for metro lines considering peak avoidance behaviour of commuters, *Transportmetrica A: Transport Science*, 18:3, 1420-1444. <https://doi.org/10.1080/23249935.2021.1946203>
- J162** Tsoleridis, P., Choudhury, C.F. & Hess, S. (2022), Deriving transport appraisal values from emerging revealed preference data, *Transportation Research Part A*, Volume 165, pp. 225-245. <https://doi.org/10.1016/j.tra.2022.08.016>
- J161** Palma, D. & Hess, S. (2022), Extending the Multiple Discrete Continuous (MDC) modelling framework to consider complementarity, substitution, and an unobserved budget, *Transportation Research Part B*, Volume 161, pp. 13-35. <https://doi.org/10.1016/j.trb.2022.04.005>
- J160** Tjong, J., Dekker, T., Hess, S. & Ojeda Cabral, M. (2022), The selection of income measures in value of travel time models and their implications for the VTT, its cross-sectional income elasticity and transport appraisal, *Research in Transportation Economics*, Volume 94, 101168. <https://doi.org/10.1016/j.retrec.2021.101168>
- J159** Hess, S., Lancsar, E., Mariel, P., Meyerhoff, J., Song, F., van den Brok-Altenburg, E., Alaba, O.A., Amaris, G., Arellana, J., Baso, L., Benson, J., Bravo-Moncayo, L., Chanel, O., Choi, S., Crastes dit Sourd, R., Cybis, H.B., Dorner, Z., Falco, P., Garzón-Pérez, L., Glass, K., Guzmán, L.A., Huang, Z., Huynh, E., Kim, B., Konstantinus, A., Konstantinus, I., Larrañaga, A.M.,

- Longo, A., Loo, B.P.Y., Oehlmann, M., O'Neill, V., Ortúzar, J. de D., Sanz, M.J., Sarmiento, O.L., Tamuka Moyo, H., Tucker, S., Wang, Y., Wang, Y., Webb, E.J., Zhang, J. & Zuidgeest, M.H.P. (2022), The path towards herd immunity: predicting COVID-19 vaccination uptake through results from a stated choice study across six continents, *Social Science & Medicine*, 298, April 2022, 114800. <https://doi.org/10.1016/j.socscimed.2022.114800>
- J158** Zannat, K., Choudhury, C.F. & Hess, S. (2022), Modelling departure time choice of car commuters in Dhaka, Bangladesh, *Transportation Research Record* 2676(2), pp. 247-262. <https://doi.org/10.1177/03611981211039840>
- J157** Huan, N., Hess, S. & Yao, E. (2022), Understanding the effects of travel demand management on metro commuters' behavioural loyalty: a hybrid choice modelling approach, *Transportation* 49, pp. 343–372. <https://doi.org/10.1007/s11116-021-10179-3>
- J156** Tsoleridis, P., Choudhury, C.F. & Hess, S. (2022), Utilising activity space concepts to sampling of alternatives for mode and destination choice modelling of discretionary activities, *Journal of Choice Modelling*, 42, 100336. <https://doi.org/10.1016/j.jocm.2021.100336>
- J155** Hancock, T. & Hess, S. (2021), What is really uncovered by mixing different model structures: contrasts between latent class and model averaging, *European Journal of Transport and Infrastructure Research*, 21 (3), pp. 38-63. <https://doi.org/10.18757/ejtir.2021.21.3.3949>
- J154** Bogacz, M., Hess, S., Calastri, C., Choudhury, C.F., Mushtaq, F., Awais, M., Nazemi, M., van Eggermond, M.A.B. & Erath, A. (2021), Modelling risk perception using a dynamic hybrid choice model and brainimaging data: application to virtual reality cycling, *Transportation Research Part C, Volume 133, December 2021, 103435*. <https://doi.org/10.1016/j.trc.2021.103435>
- J153** van den Broek-Altenburg, E.M., Atherly, A.J., Hess, S. & Benson, J. (2021), The effect of unobserved preferences and race on vaccination hesitancy for COVID-19 vaccines: implications for health disparities, *Journal of Managed Care & Specialty Pharmacy* 2021 27:9-a Suppl, S2-S11. <https://doi.org/10.18553/jmcp.2021.27.9-a.s4>
- J152** Capurso, M., Hess, S. & Dekker, T. (2021), Stated Consideration and Attribute Thresholds in Mode Choice Models: a Hierarchical ICLV Approach, *European Journal of Transport and Infrastructure Research*, 21(3), pp. 106-123. <https://doi.org/10.18757/ejtir.2021.21.3.3982>
- J151** Amaris, G., Dawson, R., Gironás, J., Hess, S. & Ortúzar, J. de D. (2021), From mathematical models to policy design: predicting greywater reuse scheme effectiveness and water reclamation benefits based on individuals' preferences, *Sustainable Cities and Society*, 74, 103132. <https://doi.org/10.1016/j.scs.2021.103132>
- J150** Webb, E.J. & Hess, S. (2021), Joint modelling of choice and rating data: theory and examples, *Journal of Choice Modelling*, 40, 100304. <https://doi.org/10.1016/j.jocm.2021.100304>
- J149** Lu, H., Hess, S., Daly, A., Patrui, B., Rohr & Vuk, G. (2021), Using state-of-the-art models in applied work: travellers' willingness to pay for a toll tunnel in Copenhagen, *Transportation Research Part A*, 154, pp. 37-52. <https://doi.org/10.1016/j.tra.2021.06.021>
- J148** Bwambale, A., Choudhury, C., Hess, S., Iqbal, S. (2021), Getting the best of both worlds - a framework for combining disaggregate travel survey data and aggregate mobile phone data for trip generation modelling, *Transportation*, 48, pp. 2287–2314. <https://doi.org/10.1007/s11116-020-10129-5>
- J147** Bogacz, B., Hess, S., Choudhury, C.F., Calastri, C., Mushtaq, M., Awais, M., Nazemi, M., van Eggermond, M. & Erath, A. (2021), Cycling in virtual reality: modelling behaviour in an immersive environment, *Transportation Letters*, 13(8), pp. 608-622. <https://doi.org/10.1080/19427867.2020.1745358>
- J146** Hancock, T., Hess, S., Marley, A.A.J. & Choudhury, C. (2021), An accumulation of preference: two alternative dynamic models for understanding transport choices, *Transportation Research Part B*, Volume 149, July 2021, Pages 250-282. <https://doi.org/10.1016/j.trb.2021.04.001>
- J145** Webb, E.J.D., Meads, D., Lynch, Y., Judge, S. Randall, N., Goldbart, J., Meredith, S., Moulam, L., Hess, S. & Murray, J. (2021), Attribute selection for a discrete choice experiment incorporating a best-worst scaling survey, *Value in Health*, Volume 24, Issue 4, April 2021, Pages 575-584. <https://doi.org/10.1016/j.jval.2020.10.025>

- J144** Fayyaz, M., Bliemer, M., Beck, M., Hess, S. & van Lint, H. (2021), Stated Choices and Simulated Experiences: Differences in the Value of Travel Time and Reliability, *Transportation Research Part C*, Volume 128, 103145. <https://doi.org/10.1016/j.trc.2021.103145>
- J143** Song, F., Hess, S. & Dekker, T. (2021), A joint model for stated choice and best worst scaling data using latent attribute importance: application to high speed rail, *Transportmetrica A*, 17(4), pp. 411-438. <https://doi.org/10.1080/23249935.2020.1779384>
- J142** Palma, D., Enam, A., Hess, S., Calastri, C. & Crastes dit Sourd, R. (2021), Modelling multiple occurrences of activities during a day: An extension of the MDCEV model, *Transportmetrica B*, 9(1), pp. 456-478. <https://doi.org/10.1080/21680566.2021.1900755>
- J141** Amaris, G., Hess, S., Gironás, J. & J. & Ortúzar, J. de D. (2021), Capturing and analysing heterogeneity in residential greywater reuse preferences using a latent class model, *Journal of Environmental Management*, 279, 111673. <https://doi.org/10.1016/j.jenvman.2020.111673>
- J140** Hess, S., Meads, D., Twiddy, M., Mason, S., Czoski-Murray, C. & Minton, J. (2021), Characterising heterogeneity and the role of attitudes in patient preferences: a case study in preferences for outpatient parenteral intravenous antimicrobial therapy (OPAT) services, *Journal of Choice Modelling*, 38, 100252. <https://doi.org/10.1016/j.jocm.2020.100252>
- J139** Buckell, J., Hensher, D.A. & Hess, S. (2021), Kicking the habit is hard: a hybrid choice model investigation into the role of addiction in smoking behaviour, *Health Economics*, 30(1), pp. 3-19. <https://doi.org/10.1002/hec.4173>
- J138** Paschalidis, E., Choudhury, C.F. & Hess, S. (2021), From driving simulator experiments to field traffic application: Improving the transferability of car-following models, *Journal of Transportation Engineering, Part A: Systems*, 147(1), art. no. 468. <https://doi.org/10.1061/JTEPBS.0000468>
- J137** Amaris, G., Gironás, J., Hess, S. & J. & Ortúzar, J. de D. (2021), Using hybrid choice models to capture the impact of attitudes on residential greywater reuse preferences, *Resources, Conservation & Recycling*, 164, 105171. <https://doi.org/10.1016/j.resconrec.2020.105171>
- J136** Murray, J., Lynch, Y., Goldbart, J., Moulam, L., Judge, S., Webb, E., Jayes, M., Meredith, S., Whittle, H., Randall, N., Meads, D. & Hess, S. (2020), The decision-making process in recommending electronic communication aids for children and young people who are non-speaking: the I-ASC mixed-methods study. *Health Services and Delivery Research* 2020, 8(45). <https://doi.org/10.3310/hsdr08450>
- J135** Bogacz, M., Hess, S., Calastri, C., Choudhury, C.F., Erath, A., van Eggermond, M., Mustaq, F., Nazemi, M. & Awais, M. (2020), A Comparison of Cycling Behaviour between Keyboard-Controlled and Instrumented Bicycle Experiments in Virtual Reality, *Transportation Research Record*, 2674 issue: 7, page(s): 244-257. <https://doi.org/10.1177/0361198120921850>
- J134** Haque, Md B., Choudhury, C.F. & Hess, S. (2020), Understanding differences in residential location preferences between ownership and renting: a case study of London, *Journal of Transport Geography*, 88, 102866. <https://doi.org/10.1016/j.jtrangeo.2020.102866>
- J133** Konstantinus, A., Zuidegeest, M., Hess, S. & de Jong, G. (2020), Assessing Inter-Urban Freight Mode Choice Preference for Short-sea Shipping in the Southern African Development Community Region, *Journal of Transport Geography*, 88, 102816. <https://doi.org/10.1016/j.jtrangeo.2020.102816>
- J132** Amaris, G., Dawson, R., Gironás, J., Hess, S. & J. & Ortúzar, J. de D. (2020), Understanding the preferences for different types of urban greywater uses and the impact of qualitative attributes, *Water Research*, 184, 116007. <https://doi.org/10.1016/j.watres.2020.116007>
- J131** Hancock, T., Hess, S., Daly, A.J. & Fox, J. (2020), Using a sequential latent class approach for model averaging: benefits in forecasting and behavioural insights, *Transportation Research Part A*, 139, pp. 429-454. <https://doi.org/10.1016/j.tra.2020.07.005>
- J130** Hancock, T., Broekaert, J., Hess, S. & Choudhury, C. (2020), Quantum choice models: a flexible new approach for understanding moral decision-making, *Journal of Choice Modelling*, 37, 100235. <https://doi.org/10.1016/j.jocm.2020.100235>

- J129** Hancock, T., Broekaert, J., Hess, S. & Choudhury, C. (2020), Quantum probability: a new method for modelling travel behaviour, *Transportation Research Part B*, 139, pp. 165-198. <https://doi.org/10.1016/j.trb.2020.05.014>
- J128** Calastri, C., Hess, S., Palma, D. & Crastes dit Sourd, R. (2020), Capturing relationship strength: a choice model for leisure time, frequency of interaction and ranking in name generators, *Travel Behaviour and Society*, 20, 290-299. <https://doi.org/10.1016/j.tbs.2020.03.009>
- J127** Hess, S., Daly, A.J. & Börjesson, M. (2020), A Critical Appraisal of Use of Simple Time-Money Trade-Offs for Appraisal Value of Time Measures, *Transportation*, 47, 1541–1570. <https://doi.org/10.1007/s11116-020-10097-w>
- J126** Calastri, C., Hess, S., Pinjari, A. & Daly, A. (2020), Accommodating correlation across days in multiple-discrete continuous models for time use, *Transportmetrica B*, 8, 108-128. <https://doi.org/10.1080/21680566.2020.1721379>
- J125** Daly, A.J. & Hess, S. (2020), VTT or VTTs: a note on terminology for value of travel time work, *Transportation*, 47, 1359-1364. <https://doi.org/10.1007/s11116-018-9966-4>
- J124** Hess, S., Choudhury, C.F., Bliemer, M. and Hibberd, D. (2020), Modelling Lane-Changing Behaviour in Approaches to Roadworks: Contrasting and Combining Driving Simulator Data with Stated Choice Data, *Transportation Research Part C*, 112, 282–294. <https://doi.org/10.1016/j.trc.2019.12.003>
- J123** Calastri, C., Crastes dit Sourd, R. & Hess, S. (2020), We want it all: experiences from a survey seeking to capture social network structures, lifetime events and short-term travel and activity planning, *Transportation*, 47(1), 175-201. <https://doi.org/10.1007/s11116-018-9858-7>
- J122** Bergantino, A.S., Capurso & Hess, S. (2020), Modelling regional accessibility to airports using discrete choice models: An application to a system of regional airports, *Transportation Research Part A*, 132, 855-871. <https://doi.org/10.1016/j.tra.2019.12.012>
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- C398** Amaris, G., Hess, S. & Vesely, S. (2024), *Data and modelling considerations for studying preference spillover: applications to travel behaviour*, *Foundations of Utility and Risk*, Brisbane
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- C396** Magor, T., Coote, L. & Hess, S. (2024), *Combining Sources of Preference Data: A Latent Variable Formulation Using the Factor-Analytic Form of Mixed Logit*, 8th International Choice modelling conference, Puerto Varas, Chile.

- C395** Ali, A., Flaata, E.H., Tørset, T., Hess, S. & Choudhury, C.F. (2024), Investigating the effect of imputing trip purposes in a trip generation model, 8th International Choice modelling conference, Puerto Varas, Chile.
- C394** von Butler, L. White, B. & Hess, S. (2024), Avoiding fake news: building a toolkit to identify bots and coached respondents in stated preference surveys, 8th International Choice modelling conference, Puerto Varas, Chile.
- C393** Tsoleridis, P., Choudhury, C.F. & Hess, S. (2024), Causal determinants of car ownership decisions, 8th International Choice modelling conference, Puerto Varas, Chile.
- C392** Hancock, T., Song, F., Choudhury, C.F. & Hess, S. (2024), An integrated choice and latent variable decision field theory model linking preferential choice responses and thinking patterns, 8th International Choice modelling conference, Puerto Varas, Chile.
- C391** Bunch, D., Hess, S. & Palma, D. (2024), BGW: A (Apollo-compatible) numerically efficient (aka “fast”) and reliable maximum likelihood estimation package for choice models, with well- characterized stopping diagnostics, 8th International Choice modelling conference, Puerto Varas, Chile.
- C390** Amaris, G., Hess, S. & Vesely, S. (2024), Detecting preference spillovers: application of choice models to the analysis of CO2 reducing behaviour and environmental donations, 8th International Choice modelling conference, Puerto Varas, Chile.
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- C388** Deckman, T. & Hess, S. (2024), A Novel Approach for Optimizing Healthcare Message Effectiveness, 8th International Choice modelling conference, Puerto Varas, Chile.
- C387** Nova, G., van Cranenburgh, S. * Hess, S. (2024), Understanding the decision-making process of discrete choice modellers: one database but many workflows, 8th International Choice modelling conference, Puerto Varas, Chile.
- C386** Beck, M.J., Bliemer, M.C.J. & Hess, S. (2024), That Seems Relatively Important! The not so simple question of what matters most to respondents when making a choice, 8th International Choice modelling conference, Puerto Varas, Chile.
- C385** Ali, A., Dekker, T., Hess, S. & Choudhury, C. (2024), Using posterior analysis to predict missing information in passively collected data, hEART 2024 – 12th Symposium of the European Association for Research in Transportation, Aalto
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- C382** Tsoleridis, P., Hess, S. & Choudhury, C.F. (2023), Accounting for Distance-Based Correlations Among Alternatives in the Context of Spatial Choice Modelling Using High-Resolution Mobility Data, 102nd Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C380** Nova, G., Guevara, C.A., Hess, S. & Hancock, T.O. (2023), Random Utility Maximization-Decision Field Theory: Random Utility Maximization Model Considering the Information Search Process, 102nd Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C376** Palma, D. & Hess, S. (2022), Extending Multiple Discrete Continuous (MDC) modelling to consider complementarity, substitution, and unobserved budgets, 16th International Conference on Travel Behaviour Research, Santiago de Chile
- C375** Hess, S. & van Cranenburgh, S. (2022), Wisdom of the crowd: compare and combine models for out-of-distribution forecasting, 16th International Conference on Travel Behaviour Research, Santiago de Chile
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- C373** Hancock, T., Choudhury, C., Walker, J. & Hess, S. (2023), Quantum choice models leap out of the laboratory: capturing real-world behavioural change, hEART 2023 – 11th Symposium of the European Association for Research in Transportation, Zurich
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- C371** Hess, S. (2022), Understanding preferences for COVID-19 vaccination: results from a unique longitudinal stated choice study covering 18 countries across 6 continents, 7th International Choice modelling conference, Reykjavik
- C370** Sandorf, E.,D., Börger, T., Campbell, D., Crastes Dit Sourd, R., Czajkowski, M., Hess, S., Jacobsen, J.B., Olsen, S.B., Lindhjem, H., Mariel, M. & Meyerhoff, J. (2022), Exploring status quo effects in stated preference experiments: A meta style analysis, 7th International Choice modelling conference, Reykjavik
- C369** Calastri, C., Hess, S., Popli, G. & Roberts, J. (2022), Women’s labour market participation and its link with attitudes towards gender roles in the family, 7th International Choice modelling conference, Reykjavik
- C368** Amaris, G., Vesely, S. & Hess, S. (2022), A choice modelling analysis of pro-environmental behaviour spillover, 7th International Choice modelling conference, Reykjavik
- C367** Hancock, T.O., Choudhury, C.F., Walker, W. & Hess, S. (2022), Quantum choice models leap out of the laboratory: capturing real-world behavioural change, 7th International Choice modelling conference, Reykjavik
- C366** van Den Broek-Altenburg, E., Benson, J., Atherly, A. & Hess, S. (2022), Drivers of Health Disparities and Consequences for COVID-19 Vaccine Choices: Modelling Health Preference Heterogeneity among Underserved Populations, 7th International Choice modelling conference, Reykjavik
- C365** Palma, D., Hess, S., Molloy, J. & Axhausen, K.W. (2022), Using the extended Multiple Discrete Continuous model to predict kilometres travelled by mode, 7th International Choice modelling conference, Reykjavik
- C364** Lin, S., Calastri, C. & Hess, S. (2022), Modelling joint activity engagement: exploring the influence of the characteristics of social network members, 7th International Choice modelling conference, Reykjavik
- C363** Amaris, G., Song, F., Calastri, C., Hess, S., Beck, M., Zuidgeest, M., Behrens, R., Moyo, H.T.T & Arellana, J. (2022), A multi-country panel study of behaviour, attitudes and expectations during the COVID-19 pandemic, 7th International Choice modelling conference, Reykjavik
- C362** Hess, S., Hancock, T.O., Choudhury, C., Mushtaq, F. & Mon-Williams, M. (2022), Using a mathematical representation of brain processes to explain choices: introducing the free energy principle to mainstream choice modelling, 7th International Choice modelling conference, Reykjavik

- C361** Zannat, K., Choudhury, C.F., Hess, S. & Carrasco, J.-A. (2022), Heterogeneity in activity participation: A comparative analysis of Multinomial logit model (MNL) and multiple discrete-continuous choice model (MDCEV), 7th International Choice modelling conference, Reykjavik
- C360** Nova, G., Guevara, C.A. & Hess, S. (2022), In-depth, Breadth-first or Both? Toward the Development of a RUM-DFT Discrete Choice Model, 7th International Choice modelling conference, Reykjavik
- C359** Tsoleridis, P., Hess, S. & Choudhury, C. (2022), Accounting for distance-based correlations among alternatives in the context of spatial choice modelling using high resolution mobility data, 7th International Choice modelling conference, Reykjavik
- C358** Ryseck, B., Zuidgeest, M., Behrens, R., & Hess, S. (2022), Investigating Passenger Information Needs for Hybrid Public Transport Network Journey Planning, 7th International Choice modelling conference, Reykjavik
- C357** Hancock, T.O., Hess, S. & Choudhury, C.F. (2022), Is your model the best? Mitigating risk through averaging across different analysts' competing models, 7th International Choice modelling conference, Reykjavik
- C356** Tsoleridis, P., Choudhury, C.F. & Hess, S. (2022), Deriving Transport Appraisal Values from Emerging Data Sources, 101th Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C354** Crastes Dit Sourd, R., Hess, S., Borejesson, M. & Hensher, D. (2020), Preference instability in stated choice surveys: more evidence, hEART 2020: 9th Symposium of the European Association for Research in Transportation, Lyon
- C353** Palma, D. & Hess, S. (2020), Apollo: a flexible and powerful free open source R package for choice modelling, 99th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C352** Bogacz, M., Calastri, C., Choudhury, C., Hess, S., Erath, A., van Eggermond, M. & Mushtaq, F. (2020), Cycling Behavior in Virtual Reality: A Comparison Between Keyboard Controlled and Instrumented Bicycle Experiments, 99th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C351** Hancock, T., Hess, S. & Choudhury, C. (2020), Quantum rotation: a new method for capturing a change of perspective, 99th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C350** Hancock, T., Hess, S. & Choudhury, C. (2020), A Decision Field Theory Model for Dynamic Choice Contexts: Further Steps Towards Bridging Choice Modelling with Mathematical Psychology, 99th Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C349** Dastjerdi, A.M., Hess, S. & Pereira, F.C. (2019), Discovering Causal Structure from Attitudinal Data: What Motives People to Use Mobility-Management Travel Apps, hEART 2019 – 8th Symposium of the European Association for Research in Transportation, Budapest
- C348** Pereira, F., Dastjerdi, A. and Hess, S. (2019), Discovering causal structure from observations: experiments with causal discovery on attitudinal data, 6th International Choice Modelling Conference, Kobe
- C347** Crastes dit Sourd, R., Calastri, C., Hess, S., Choudhury, C.F. and Palma, D. (2019), The path of life: modelling life course events using route choice model techniques, 6th International Choice Modelling Conference, Kobe
- C346** Hancock, T.O., Hess, S., Choudhury, C.F. and Bogacz, M. (2019), Theoretical considerations for a dynamic model for dynamic data: bridging choice modelling with mathematical psychology, 6th International Choice Modelling Conference, Kobe
- C345** Bwambale, A., Choudhury, C.F., Hess, S. and Iqbal, S. (2019), Getting the best of both worlds - a framework for combining disaggregate travel survey data and aggregate mobile

- phone data for trip generation modelling, 6th International Choice Modelling Conference, Kobe
- C344** Calastri C., Hess, S. and Newing, A. (2019), A study of parenting choices: exploring the influence of geospatial opportunities, 6th International Choice Modelling Conference, Kobe
- C343** Tsoleridis, P., Choudhury, C.F. and Hess, S. (2019), Comparison of machine learning clustering algorithms and latent classes for capturing heterogeneity in choice models, 6th International Choice Modelling Conference, Kobe
- C342** Tjong, J., Dekker, T., Hess, S., Giergiczny, M. and Ojeda-Cabral, M. (2019), Capturing zero-price effects in stated choice surveys and implications for willingness-to-pay computation, 6th International Choice Modelling Conference, Kobe
- C341** Webb, E. and Hess, S. (2019), Joint modelling of choice and rating data: theory and examples, 6th International Choice Modelling Conference, Kobe
- C340** Palma D. and Hess, S. (2019), An MDCEV model with unknown budget, 6th International Choice Modelling Conference, Kobe
- C339** Hess, S. and Hancock, T.O. (2019), Identification and interpretation of process parameters in mathematical psychology models, 6th International Choice Modelling Conference, Kobe
- C338** Konstantinus, A., Zuidgeest, M., Hess, S. and de Jong, G. (2019), Opportunities for short sea shipping in the southern African development community: evidence based on discrete choice modelling, 6th International Choice Modelling Conference, Kobe
- C337** Tamuka Moyo, H., Calastri, C., Zuidgeest, M. and Hess, S. (2019), The use of contraception among young South Africans: a longitudinal choice model, 6th International Choice Modelling Conference, Kobe
- C336** Lu, H., Patruni, B., Rohr, C., Hess, S., Daly, A., Vuk, G. and Paag, H. (2019), Using state-of-the-art models in applied work: travellers willingness to pay for a toll tunnel in Copenhagen, 6th International Choice Modelling Conference, Kobe
- C335** Spitz, G. and Hess, S. (2019), The ability to and need for estimating models with a high number of alternatives aka: enumerative models, 6th International Choice Modelling Conference, Kobe
- C334** Tsoleridis, P., Choudhury, C.F. and Hess, S. (2019), Investigation of factors influencing individual exploration patterns, 6th International Choice Modelling Conference, Kobe
- C333** Song, F., Hess, S. and Dekker, T. (2019), Fancy sharing an air taxi? Uncovering the impact of variety seeking on the demand for new shared mobility services, 6th International Choice Modelling Conference, Kobe
- C332** Hancock, T.O., Hess, S. and Choudhury, C.F. (2019), Quantum rotation: a new method for capturing a change of perspective, 6th International Choice Modelling Conference, Kobe
- C331** Fayyaz, M., Bliemer, M., Beck, M., Rutström, E., Hess, S. and van Lint, J.W.C. (2019), Route choice behaviour under travel time uncertainty accounting for learning via description and experience-based feedback, 6th International Choice Modelling Conference, Kobe
- C330** Bogacz, M., Hess, S., Choudhury, C.F., Calastri, C., Erath, A., Van Eggermond, M., Mushtaq, F. and Awais, M. (2019), Modelling risk perception using a dynamic hybrid choice model and brain-imaging data: application to virtual reality cycling, 6th International Choice Modelling Conference, Kobe
- C329** Enam, A., Palma, D., Hess, S., Calastri, C. and Crastes dit Sourd, R. (2019), Episode-based approach to multiple discrete continuous (MDC) models: a novel framework for time use analysis, 6th International Choice Modelling Conference, Kobe
- C328** Bogacz, M., Calastri, C., Choudhury, C., Hess, S., Erath, A., van Eggermond, M. & Mushtaq, F. (2019), Processing Cycling Risk Under Different Elicitation Methods: Comparing 2D and 3D in Virtual Reality Choice Environments, 98th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C327** Bergantino, A.S., Capurso, M., Dekker, D. & Hess, S. (2019), Allowing for Heterogeneity in the Consideration of Airport Access Modes: The Case of Bari Airport , 98th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C326** Paschalidis, E., Choudhury, C. & Hess, S. (2019), Modeling the Effects of Stress in the Car-Following Model Using Driving Simulator and Physiological Sensor Data , 98th Annual Meeting of the Transportation Research Board, Washington, D.C.

- C325** Song, F., Dekker, T. & Hess, S. (2019), Combining Stated Choice Data and Best-Worst Scaling (Case 1 and Case 2) Data to Understand Attribute Importance in Mode Choice Behavior , 98th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C324** Fayyaz, M., Bliemer, M., Beck, M. & Hess, S., (2019), Route Choice Behavior in Stated Choice Experiments: With and Without Consequences , 98th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C323** Bwambale, A., Choudhury, C. & Hess, S. (2019), Modeling Departure Time Choices Using Mobile Phone Data , 98th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C322** Hancock, T., Hess, S., Daly, A., Fox, J. (2019), Model Averaging: Revisiting Our Approach to Decision Rule Heterogeneity and Improving Our Travel Behavior Models , 98th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C321** Hancock, T., Hess, S., Choudhury, C. (2019), Quantum Probability: A New Method for Modeling Travel Choices, 98th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C320** Crastes dit Sourd, R., Palma, D., Hess, S., Daly, A.J., Holz-Rau, C. & Scheiner, J. (2019), On Model Composition and Selection in Composite Marginal Likelihood Estimation , 98th Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C319** Palma, D., Hess, S., Calastri, C. & Crastes dit Sourd, R. (2018), Modelling the effect of time on products' attractiveness: a simplified duration analysis in MDCEV, Interdisciplinary Choice Workshop ICW18, Santiago de Chile
- C318** Dada, M., Zuidgeest, M. & Hess, S. (2018), Modelling pedestrian crossing choice on Cape Town's freeways, Interdisciplinary Choice Workshop ICW18, Santiago de Chile
- C317** Palma, D., Ortúzar, J. de D., Rizzi, L.I., Hess, S. & Casaubon, G. (2018), Modelling wine choices: an integrated framework for food purchase and consumption using advance choice modelling, International Choice Workshop ICW18, Santiago de Chile
- C316** Choudhury, C., Hess, S., Crastes dit Sourd, R. (2018), A Peek at the Future: Capturing Anticipation Effects in Dynamic Discrete Choice Models, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C315** Song, F., Hess, S., Dekker, T. (2018), Accounting for intra-responder preference heterogeneity in repeated stated choice data: when new travel modes come into play, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C314** Bwambale, A., Hess, S., Choudhury, C. (2018), Analysing time-of-travel choices using mobile phone data, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C313** Palma, D., Hess, S., Enam, A., Calastri, C., Pinjari, A. (2018), Breakfast and lunch or brunch? Understanding and modelling the difference between one long and multiple short activities, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C312** Haque, M.B., Choudhury, C., Hess, S. (2018), Choice Set Generation in Residential Location Choice Models, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C311** Song, F., Hess, S., Dekker, T. (2018), Comparing and combining best-worst scaling and stated choice data to understand attribute importance in mode choice behaviour, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C310** Palma, D., Hess, S., Crastes dit Sourd, R., Calastri, C. (2018), From Monday to Friday: Modelling commuting mode choice for a whole week, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C309** Paschalidis, E., Choudhury, C., Hess, S. (2018), Incorporating the effects of stress in a traditional car-following model framework using driving simulator data and physiological sensors, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C308** Hancock, T.O., Hess, S., Daly, A., Fox, J. (2018), Model averaging: revisiting our approach to decision rule heterogeneity in travel behaviour models and reinterpreting the results of latent class models, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C307** Bergantino, A.S., Capurso, M., Dekker, T., Hess, S. (2018), Modelling consideration of alternatives as a function of individuals' attitudes and perceptions: an application to airport

- access mode choice, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C306** Calastri, C., Crastes dit Sourd, R., Hess, S. (2018), Moving towards a deeper understanding of joint travel and activity participation by combining data from name generators and time use diaries, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C305** Calastri, C., Hess, S., Pinjari, A., Daly, A., Palma, D. (2018), Multi-day time use applications of the MDCEV model: behavioural phenomena, implementation issues and practical solutions, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C304** Bogacz, M., Calastri, C., Choudhury, C., Hess, S., Erath, A., Van Eggermond, M., Mushtaq, F. (2018), Neural processing of risk under different elicitation methods: implications for travel behaviour research, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C303** Hancock, T.O., Hess, S., Choudhury, C. (2018), Quantum probability: a new method for considering travel choice, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C302** Tjong, J., Dekker, T., Hess, S., Cabral, M.O. (2018), Revisiting the cross-sectional income elasticity of the VTT: gross, disposable and equivalised disposable income, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C301** Capurso, M., Dekker, T., Hess, S. (2018), Stated consideration and attribute thresholds in mode choice models: a hierarchical ICLV approach, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C300** Crastes dit Sourd, R., Calastri, C., Hess, S., Choudhury, C., Palma, D. (2018), The path of life: exploring alternative frameworks for modelling long-term mobility choices, 15th International Conference on Travel Behaviour Research, Santa Barbara
- C299** Bwambale, A., Choudhury, C.F. and Hess, S., (2018), Modeling Long-Distance Route Choice Using Mobile Phone Call Detail Record Data: A Case Study of Senegal. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C298** Calastri, C., Crastes dit Sourd, R. and Hess, S., (2018), We Want It All: Experiences from a Survey Seeking to Capture Social Network Structures, Lifetime Events, and Short-Term Travel and Activity Planning. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C297** Calastri, C., Hess, S., Daly, A., Carrasco, J. and Choudhury, C.F., (2018), Modeling the Loss and Retention of Contacts in Social Networks: The Role of Tie Strength and Dyad-Level Heterogeneity. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C296** Calastri, C., Hess, S., Pinjari, A. and Daly, A., (2018), Accommodating Correlation Across Days in Multiple Discrete-Continuous Models for Activity Scheduling: Estimation and Forecasting Considerations. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C295** Choudhury, C.F., Hess, S. and Oakil, A.T., (2018), A Peek at the Future: Capturing Anticipation Effects in Discrete Choice Models. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C294** Guevara, C.A. and Hess, S., (2018), A Control-Function Approach to Correct for Endogeneity in Discrete Choice Models Estimated on SP-OFF-RP Data. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C293** Hancock, T.O., Hess, S. and Choudhury, C.F., (2018), A Comparison of the Suitability of Accumulation Models in Travel Behavior Modeling. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C292** Hancock, T.O., Hess, S. and Choudhury, C.F., (2018), Incorporating Response Time in a Decision Field Theory Model. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C291** Haque, M.B., Choudhury, C.F. and Hess, S., (2018), Investigating the Temporal Dynamics of Long-Term and Medium-Term Residential Location Choices: A Case Study of London. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.

- C290** Hess, S., Choudhury, C.F., Bliemer, M. and Hibberd, D., (2018), Modeling Lane-Changing Behavior in Approaches to Roadworks: Contrasting and Combining Driving Simulator Data with Stated Choice Data. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C289** Palma, D., Crastes dit Sourd, R., Calastri, C., Hess, S. and O'Neill, V., (2018), Providing Personalized Feedback to Investigate the Role of Social Influence on Travel Behavior. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C288** Paschalidis, E., Choudhury, C.F. and Hess, S., (2018), Improving the Transferability of Car-Following Models Between Driving Simulator and Field Traffic. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C287** Paschalidis, E., Choudhury, C.F. and Hess, S., (2018), Modeling the Effects of Stress on Gap-Acceptance Decisions in a Driving Simulator Experiment Using Physiological Sensors. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C286** Song, F., Hess, S. and Dekker, T., (2018), Accounting for the Impact of Latent Variety-Seeking Tendencies Theory and Application to HSR–Air Intermodality in China. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C285** Song, F., Hess, S. and Dekker, T., (2018), Comparing and Combining Best–Worst Scaling and Stated Choice Data to Understand Attribute Importance in Mode-Choice Behavior. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
- C284** Tjong, J., Hess, S. and Dekker, T., (2018), Impact of Travel Time Constraints on Taste Heterogeneity and Nonlinearity in Simple Time–Cost Trade-Offs. The Transportation Research Board (TRB) 97th Annual Meeting, Washington, D.C.
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- C283** Palma, D., Crastes dit Sourd, R., Calastri, C., Hess, S., Beck, M. and O'Neill, V. (2017), Providing personalised feedback to investigate the role of social influence on travel behaviour, hEART 2017 – 6th Symposium of the European Association for Research in Transportation, Tel Aviv
- C282** Song, F., Hess, S., Dekker, T. (2017), Modelling mode choice behaviour in the context of air-HSR intermodality in China, ATRS conference, Antwerp.
- C281** Hancock, T.O., Hess, S. and Choudhury, C.F. (2017), Improving decision field theory for consumer choice modelling applications, paper presented at MathPsych, Warwick.
- C280** Dada, M., Zuidgeest, M. & Hess, S. (2017), Modelling pedestrian crossing choice behaviour on Cape Town freeways: caught between a stone rock and a hard place?, 5th International Choice Modelling Conference, Cape Town.
- C279** Smith, B., Oлару, D., Hess, S., Beck, M. & Choudhury, C. (2017), Dwelling and Residential Location Choice Models on Complete Market Data, 5th International Choice Modelling Conference, Cape Town.
- C278** Hess, S. & Train, K.E. (2017), Correlation and scale in mixed logit models, 5th International Choice Modelling Conference, Cape Town.
- C277** Palma, D., Ortuzar, J.d.D., Rizzi, L.I. & Hess, S. (2017), An incentive-compatible experiment to model wine preferences considering extrinsic and intrinsic attributes, 5th International Choice Modelling Conference, Cape Town.
- C276** Capurso, M., Hess, S. & Dekker, T. (2017), Modelling awareness and consideration in mode choice: an application on the Rome-Milan corridor, 5th International Choice Modelling Conference, Cape Town.
- C275** Bwambale, A., Choudhury, C., Hess, S. (2017), Modelling route choice using mobile phone data: a case study of Senegal, 5th International Choice Modelling Conference, Cape Town.
- C274** Tjong, J., Giergiczy, M., Czajkowski, M. & Hess, S. (2017), Disentangling status quo bias and zero-price effect for more robust estimation of welfare changes, 5th International Choice Modelling Conference, Cape Town.
- C273** Guevara, C.A. & Hess, S. (2017), Using Revealed-Preferences Sampled Choice-sets in Stated-Preference Surveys, 5th International Choice Modelling Conference, Cape Town.
- C272** Song, F., Hess, S. & Dekker, T. (2017), Modelling the role and impact of variety-seeking on mode choice behaviour in the context of air-HSR intermodality, 5th International Choice Modelling Conference, Cape Town.

- C271** Giergiczny, M. & Hess, S. (2017), Using advanced choice models to study animal behavior, 5th International Choice Modelling Conference, Cape Town.
- C270** Haque, M., Choudhury, C. & Hess, S. (2017), Reference-dependent choice set formation for modelling of long-term and medium-term residential location choices, 5th International Choice Modelling Conference, Cape Town.
- C269** Choudhury, C. & Hess, S. (2017), A Peek at the Future: Capturing the Anticipation Effects in Dynamic Discrete Choice Models, 5th International Choice Modelling Conference, Cape Town.
- C268** Dekker, T., Calastri, C., Daly, A.J. & Hess, S. (2017), Revisiting the MDCEV utility function: origins, weak complementarity, minimum consumption and efficient welfare measurement, 5th International Choice Modelling Conference, Cape Town.
- C267** Calastri, C., Hess, S. Carrasco, J.A. & Choudhury, C. (2017), Maintaining social contacts over time: the role of life-course events, personality traits and tie strength, 5th International Choice Modelling Conference, Cape Town.
- C266** Crastes dit Sourd, R., Beck, M., Choudhury, C., Dekker, T. & Hess, S. (2017), Modelling state dependence in rare life course events: Introducing the Accumulative Hybrid Choice Skew Multivariate Probit, 5th International Choice Modelling Conference, Cape Town.
- C265** Paschalidis, E., Choudhury, C. & Hess, S. (2017), Investigating the effects of stress on choices - Evidence from gap acceptance decisions of drivers in a simulator experiment, 5th International Choice Modelling Conference, Cape Town.
- C264** Hancock, T., Hess, S. & Choudhury, C. (2017), Decision field theory: improvements to current methodology and contrasts with standard choice modelling techniques, 5th International Choice Modelling Conference, Cape Town.
- C263** Ibraimovic, T., Hess, S., Zuidgeest, M. & Moyo, H. (2017), Ethnic segregation and residential location choice in Cape Town, 5th International Choice Modelling Conference, Cape Town.
- C262** Calastri, C., Hess, S., Daly, A.J., Pinjari, A. & Carrasco, J.A. (2017), Accommodating product-specific upper limits on consumption in multiple discrete-continuous extreme value (MDCEV) models: an application to time-use data, 5th International Choice Modelling Conference, Cape Town.
- C261** de Tremerie, L., Hess, S. & de Jong, G. (2017), A hybrid DCM application in freight mode choice set in the Port of Ghent (Belgium): do environmental attitudes matter? , 5th International Choice Modelling Conference, Cape Town.
- C260** de Tremerie, L., de Jong, G., Hess, S. & Beck, M. (2017), Using discrete choice modelling techniques in a mixed methods methodological framework: a case study on freight shippers in Belgium, 5th International Choice Modelling Conference, Cape Town.
- C259** Spitz, G. & Hess, S. (2017), East Coast Urbanites vs West Coast hippies: understanding differences in attitudes towards public transport, 5th International Choice Modelling Conference, Cape Town.
- C258** Hess, S., Murphy, P., Le, H. & Leong, W. (2017), Estimation of new monetary valuations of travel time, quality of travel and safety for Singapore, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C257** Hess, S., Beck, M. & Crastes dit Sourd, R. (2017), Can a better model specification avoid the need to move away from random utility maximisation? , 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C256** Calastri, C., Hess, S., Daly, A., Maness, M., Kowald, M. & Axhausen, K. (2017), Modelling Contact Mode and Frequency of Interactions with Social Network Members Using Multiple Discrete-Continuous Extreme Value Model, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C255** Calastri, C., Hess, S. & Carrasco, J.A. (2017), Incorporating the Social Dimension in Choice of Activity Type and Duration: Application of Multiple Discrete-Continuous Extreme Value Model, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C254** Calastri, C., Hess, S., Choudhury, C., Daly, A.J., & Gabrielli, L. (2017), Developing Mode Choice Models Using Semi-ubiquitous Data Sources: Case Study Using Smartphone-Based GPS Survey from Italy, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.

- C253** Beck, M. & Hess, S. (2017), Stability of Preferences and Attitudes: Hybrid Model of Air Travel Preferences at Two Different Points in Time, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C252** Hancock, T., Hess, S. & Choudhury, C. (2017), Expanding Capabilities of Decision Field Theory to Complement Random Utility Models of Travel Mode Choice, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C251** Capurso, M., Hess, S. & Dekker, T. (2017), Modeling Consideration in Mode Choice: Application on Rome-Milan Corridor, Italy, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C250** Daly, A.J., Dekker, T. & Hess, S. (2017), Dummy coding vs effects coding for categorical variables in choice models: clarifications and extensions, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C249** Hess, S., Börjesson, M. & Daly, A.J. (2017), Critical Appraisal of Use of Simple Time-Money Trade-Offs for Appraisal Value of Time Measures, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C248** Crastes dit Sourd, R., Börjesson, M., Hess, S. & Hensher, D. (2017), Should Transport Analysts Worry About Incentive Compatibility? , 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C247** Bwambale, A., Choudhury, C. & Hess, S. (2017), Modelling Trip Generation Using Mobile Phone Data: A Latent Demographics Approach, 96th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C246** Palma, D., Hess, S., Guevara, C.A., Rizzi, L.I. & Ortuzar, J.d.D. (2017), When expensive is good: Modelling the wine repurchase decision, 13th International Conference of the Western Economic Association, Santiago de Chile
- C245** Palma, D., Ortuzar, J.d.D., Rizzi, L.I. & Hess, S. (2017), Modelling wine preferences: a choice experiment combining extrinsic (pre consumption) and intrinsic (post consumption) attributes, 13th International Conference of the Western Economic Association, Santiago de Chile
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- C244** Capurso, M., Dekker, T. & Hess, S. (2016), Modelling awareness, consideration set and mode choice: An application to the Rome – Milan corridor, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C243** Ojeda Cabral, M., Zheng, J. & Hess, S. (2016), The role of the status quo on how people trade-off resources: an application to the time-money trade-off, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C242** Calastri, C., Hess, S., Choudhury, C., Daly, A.J. & Gabrielli, L. (2016), Estimation of value of travel time from GPS panel data with explicit choice set and consideration set generation , hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C241** Crastes dit Sourd, R., Calastri, C., Hess, S., Scheiner, J. & Holz-Rau, C. (2016), Modelling anticipation and interrelations between long-term mobility decisions over the life course: a recursive multivariate probit approach, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C240** Dubernet, I., Crastes dit Sourd, R., Beck, M., Hess, S., Axhausen, K., Scheiner, J. & Holz-Rau, C. (2016), A dynamic approach to long term mobility decisions in the life course, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C239** Hancock, T., Hess, S. & Choudhury, C.F. (2016), Incorporating irrationalities in decision making into choice modelling: going beyond small changes from the tried and tested, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C238** Crastes dit Sourd, R., Zheng, J., Hess, S. & Ojeda Cabral, M. (2016), A behavioural mixing model exploring the relationship between response time and decision rules, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft

- C237** Tjong, J., Dekker, T., Hess, S. & Ojeda Cabral, M. (2016), Considering latent money and time budgets in choice modelling, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C236** Bwambale, A., Choudhury, C.F. & Hess, S. (2016), Prediction of latent demographic groups from mobile phone data for transport modelling, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C235** Calastri, C., Hess, S., Daly, A.J., Maness, M., Kowald, M. & Axhausen, K.W. (2016), Modelling communication mode and frequency in an egocentric social network: an application of the MDCEV model, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C234** Pashalidis, E., Choudhury, C.F. & Hess, S. (2016), Development of an integrated car-following model combining driving simulator and video trajectory data, hEART 2016 – 5th Symposium of the European Association for Research in Transportation, Delft
- C233** Calastri, C., Hess, S. & Carrasco, J.A. (2016), Investigating the impact of soft factors on activities and travel: A case study from Concepcion, Chile, International Transport Economics (ITEA) Conference, Santiago de Chile
- C232** Calastri, C., Hess, S., Daly, A., Choudhury, C. & Gabrielli, L. (2016), Understanding mode choice from GPS panel data with consideration of environmental factors, International Transport Economics (ITEA) Conference, Santiago de Chile
- C231** Guevara, A. & Hess, S. (2016), The Impact of Presenting Endogenous Choice-sets in Stated Preference Surveys: A Proposed Correction Method, International Transport Economics (ITEA) Conference, Santiago de Chile
- C230** Hess, S., Daly, A.J., Dekker, T., Ojeda-Cabral, M. & Batley, R. (2016), From survey work to appraisal values: reporting on the 2014/2015 UK value of time study, International Transport Economics (ITEA) Conference, Santiago de Chile
- C229** Hess, S. & Spitz, G. (2016), How much do attitudes and values matter in mode choice?, 95th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C228** Hess, S. & Börjesson, M. (2016), Understanding Attitudes Toward Congestion Pricing: Latent Variable Investigation with Data from Four Cities, 95th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C227** Ehreke, I., Crastes dit Sourd, R., Beck, M., Hess, S., Axhausen, K.W., Holz-Rau, C., Scheiner, J. (2016), A Dynamic Approach to Long Term Mobility Decisions in the Life Course, 95th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C226** Hess, S., Daly, A.J., Dekker, T., Ojeda Cabral, M., Batley, R.P. (2016), Specification and Estimation of Behavioural Models for the 2015 UK Value of Time Study, 95th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C225** Beck, M., Ojeda Cabral, M., Ehreke, I. & Hess, S. (2016), Valuing Travel Time Savings: Case of Short-Term or Long-Term Choices?, 95th Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C224** Hess, S., Daly, A.J., Dekker, T., Cabral, M.O. & Batley, R.P. (2015), Specification and estimation of behavioural models for the 2015 UK value of time study, hEART 2015 – 4th Symposium of the European Association for Research in Transportation, Copenhagen
- C223** Ojeda-Cabral, M., Batley, R.P. & Hess, S. (2015), Understanding individuals' valuations of travel time: the role of stated choice design variables, 14th International Conference on Travel Behaviour Research, Windsor.
- C222** Fox, J.B., Hess, S. & Daly, A.J. (2015), Temporal Transferability of Models of Mode and Destination Choice, 14th International Conference on Travel Behaviour Research, Windsor.
- C221** Börjesson, M. & Hess, S. (2015), Understanding attitudes towards congestion pricing: a latent variable investigation with data from four cities, 14th International Conference on Travel Behaviour Research, Windsor.
- C220** Spitz, G.M. & Hess, S. (2015), How much do attitudes and values matter in mode choice?, 14th International Conference on Travel Behaviour Research, Windsor.

- C219** Bradley, M., Hess, S., Adler, T.J. & Fowler, M. (2015), The Influence of Anchoring on Value of Time Estimation in Stated Preference Experiments, 14th International Conference on Travel Behaviour Research, Windsor.
- C218** Ehreke, I., Hess, S. & Axhausen, K.W. (2015), The German value of time and value of reliability study: Comparing alternative model formulations, 14th International Conference on Travel Behaviour Research, Windsor.
- C217** Calastri, C., Choudhury, C. & Hess, S. (2015), Modelling mode choice with “messy” GPS data: a case from Italy, 14th International Conference on Travel Behaviour Research, Windsor.
- C216** Hess, S., Bliemer, M., Hibberd, D. & Choudhury, C. (2015), Understanding lane changing behaviour leading up to roadworks on motorways: a latent plan application using combined simulator experiments and stated preference surveys, 14th International Conference on Travel Behaviour Research, Windsor.
- C215** Hess, S., Daly, A.J., Bradley, M., Outwater, M. & Dekker, T. (2015), Testing the Use of Indirect Influence for Large Scale Modelling, 4th International Choice Modelling Conference, Austin, Texas.
- C214** Fox, J.B., Hess, S. & Daly, A.J. (2015), The Temporal Transferability of Mixed Logit Mode-Destination Choice Models, 4th International Choice Modelling Conference, Austin, Texas.
- C213** Daly, A.J., Hess, S., Lu, H. & Rohr, C. (2015), Modelling the Impact of Multi-Buy Promotions on Alcohol Purchasing Behaviour: A Comparison of Estimation and Implementation of Sample Selection Models and the Multiple Discrete-Continuous Extreme Value (MCDEV) Model, 4th International Choice Modelling Conference, Austin, Texas.
- C212** Bradley, M., Hess, S., Adler, T.J. & Fowler, M. (2015), The Influence of Anchoring on Value of Time Estimation in Stated Preference Experiments, 4th International Choice Modelling Conference, Austin, Texas.
- C211** Outwater, M., Bradley, M., Ferdous, N., Bhat, C., Pendyala, R., Hess, S., Daly, A. & LaMondia, J. (2015), Tour-Based National Model System to Forecast Long-Distance Passenger Travel in the United States, 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C210** Dekker, T., Hess, S. & van Cranenburgh (2015), Indirect Inference for the Application of Random Regret Minimization to Large-Scale Travel Demand, 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C209** Cabral, M., Hess, S. & Batley, R. (2015), The Value of Travel Time: Random Utility versus Random Valuation, 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C208** Beck, M. & Hess, S. (2015), Willingness to Accept Longer Commutes for Better Salaries: Understanding the Differences Within and Between Couples, 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C207** Hess, S. & Chorus, C. (2015), Utility Maximization and Regret Minimization: Mixture of a Generalization, 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C206** Ehreke, I., Hess, S., Weis, C. & Axhausen, K.W. (2015), Reliability in the German Value-of-Time Study, 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C205** Nadudvari, T., Liu, R. & Hess, S. (2015), Modelling passengers' route choice behaviour on the London Underground, 47th Annual UTSG Conference, City University, London
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- C204** Hess, S., Bliemer, M. & Hibberd, D. (2014), Combining evidence on driver behaviour from simulator experiments and stated preference surveys, 10th International Conference on Transport Survey Methods, Leura, Australia
- C203** Beck, M., & Hess, S. (2014), It's a lovely day for a walk: pedestrian route choice with realism, 10th International Conference on Transport Survey Methods, Leura, Australia
- C202** Cabral, M., Hess, S. & Batley, R. (2014), The Value of Travel Time Changes: A Comparison of British and Danish National Studies, hEART 2014 – 3rd Symposium of the European Association for Research in Transportation, Leeds
- C201** Hess, S., Daly, A.J. & Bradley, M. (2014), Using indirect inference to enable the use of cross-nested logit model for large scale modelling, hEART 2014 – 3rd Symposium of the European Association for Research in Transportation, Leeds

- C200** Fu, Q., Liu, R. & Hess, S. (2014), A Bayesian modelling framework for individual passengers' probabilistic route choices: A case study on the London Underground, 46th Annual Conference of Universities' Transport Study Group, Newcastle
- C199** Giergiczny, M., Hess, S., Dekker, D., Chintakayala, P.K. (2014), Testing Consistency Between Choices in Best-Worst Surveys, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C198** Hess, S., Quddus, M.A., Rieser-Schüssler, N. & Daly, A.J. (2014), Developing Advanced Route Choice Models for Heavy Goods Vehicles Using GPS Data, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C197** Hess, S. & Stathopoulos, A. (2014), Linking Decision Process to Indicators of Real-World Perceptions in a Latent Variable Latent Class Approach, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C196** Daly, A.J., Hess, S. & Dekker, T. (2014), Practical Solutions for Sampling Alternatives in Large-Scale Models, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C195** Dumont, J., Giergiczny, M. & Hess, S. (2014), Individual-Level Models Versus Sample-Level Models: Contrasts and Mutual Benefits, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C194** Dekker, T., Hess, S., Arentze, T.A. & Chorus, C. (2014), Incorporating Needs Satisfaction and Regret Minimization in Discrete Choice Model of Leisure Activities, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C193** Hess, S., Beck, M. & Chorus, C. (2014), Contrasts Between Utility Maximization and Regret Minimization in the Presence of Opt-Out Alternatives, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C192** Fu, Q., Liu, R. & Hess, S. (2014), A Bayesian modelling framework for individual passengers' probabilistic route choices: A case study on the London Underground, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C191** Outwater, M.L., Bhat, C.R., Pendyala, R.M., Hess, S., Sana, B., Ferdous, N., Woodford, W. & Sidharthan, R. (2014), TCRP Project H-37: Characteristics of Premium Transit Services That Affect Mode Choice-Key Findings and Results, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C190** Cabral, M.O., Batley, R.P. & Hess, S. (2013), The Value of Travel Time Changes and Three Key Sources of Variation, International Conference on Uncertainties in Transport Infrastructure Evaluation, Copenhagen
- C189** Hess, S. & Stathopoulos, A. (2013), Linking the decision process to indicators of real world perceptions in a latent variable latent class approach, hEART 2013 - 2nd Symposium of the European Association for Research in Transportation, Stockholm
- C188** Vuk, G., Bowman, J., Daly, A.J. & Hess, S. (2013), Impact of the household on person travel demand: the notion of family priority time in activity based models, hEART 2013 - 2nd Symposium of the European Association for Research in Transportation, Stockholm
- C187** Hess, S., Quddus, M., Rieser-Schüssler, N. & Daly, A.J. (2013), Developing advanced route choice models for heavy goods vehicles using GPS data, hEART 2013 - 2nd Symposium of the European Association for Research in Transportation, Stockholm
- C186** Daly, A., Hess, S. & Dekker, T. (2013), Transtools III: development of a new transport model for Europe – preliminary work on non-linearities and value of time inputs, 13th triennial WCTR conference, Rio de Janeiro.
- C185** Daly, A., Hess, S. & Dekker, T. (2013), Sampling of alternatives for spatial choice modelling, 13th triennial WCTR conference, Rio de Janeiro.
- C184** Hess, S., Beck, M. & Chorus, C. (2013), Finding your way out: utility maximisation and regret minimisation in the presence of opt out alternatives, Third International Choice Modelling Conference, Sydney.
- C183** Giergiczny, M., Chintakayala, P., Dekker, T. & Hess, S. (2013), Consistency (or lack thereof) between choices in best-worst surveys, Third International Choice Modelling Conference, Sydney.

- C182** Mariel, P., Meyerhof, J. & Hess, S. (2013), Using a latent variable choice model to capture heterogeneous attitudes and preferences toward the landscape externalities of wind power generation, Third International Choice Modelling Conference, Sydney.
- C181** Hoyos, D., Mariel, P. & Hess, S. (2013), Environmental Value Orientations in Discrete Choice Experiments: A Latent Variables Approach, Third International Choice Modelling Conference, Sydney.
- C180** Hess, S., Sanko, N., Daly, A.J. & Dumont, J. (2013), A latent variable approach to dealing with missing or inaccurately measured variables: the case of income, Third International Choice Modelling Conference, Sydney.
- C179** Vuk, V., Bowman, J.L., Hess, S. & Daly, A.J. (2013), Impact of household time constraints on person travel demand: the notion of family priority time in activity based models, Third International Choice Modelling Conference, Sydney.
- C178** Hess, S., Giergiczny, M. & Dumont, J. (2013), Individual-level models vs. random coefficients sample level models: contrasts and mutual benefits, Third International Choice Modelling Conference, Sydney.
- C177** Klojgaard, M. & Hess, S. (2013), Understanding the role of practitioners' and patients' perceptions in treatment choices in the face of limited clinical evidence: A Hybrid Choice Model approach in Health Economics, Third International Choice Modelling Conference, Sydney.
- C176** Dumont, J., Hess, S., Daly, A.J. & Ferdous, N. (2013), The use of the Multiple Discrete Continuous Extreme Value modeling framework when the budget is latent: two consumer package good examples, Third International Choice Modelling Conference, Sydney.
- C175** Dekker, T., Hess, S., Brouwer, R. & Hofkes, M. (2013), Implicitly or explicitly uncertain? An integrated choice and latent variable model to address decision certainty in stated choice experiments, Third International Choice Modelling Conference, Sydney.
- C174** Hess, S., Stathopoulos, A., Campbell, D., O'Neill, V. & Caussade, S. (2013), It's not that I don't care, I just don't care very much: confounding between attribute non-attendance and taste heterogeneity, 92nd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C173** Rose, J.M., Hess, S., Greene, W.H. & Hensher, D.A. (2013), Generalized Multinomial Logit Model: Misinterpreting Scale and Preference Heterogeneity in Discrete Choice Models or Untangling the Un-Untangleable? , 92nd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C172** Hess, S., Daly, A.J., Dumont, J. & Sanko, N. (2013), When Explanatory Variables Are Unobserved: Example of Latent Income, 92nd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C171** Batley, R.P. & Hess, S. (2013), Simple Test for Identifying Violations of Random Utility Model, 92nd Annual Meeting of the Transportation Research Board, Washington, D.C.
- C170** Hess, S., Shires, J.D. & Jopson, A. (2013), Accommodating Underlying Pro-environmental Attitudes in a Rail Travel Context: Application of a Latent Variable Latent Class Specification, 92nd Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C169** Fu, Q., R. Liu, and Hess, S.. (2012), On considering journey time variability and passengers' path choice: An empirical study using Oyster card data on the London Underground, 5th International Symposium on Transportation Network Reliability, Hong Kong
- C168** Fu, Q., R. Liu, and Hess, S.. (2012), A review on transit assignment modelling approaches to congested networks: A new perspective, 15th Meeting of the EURO Working Group on Transportation, Paris, France.
- C167** Dekker, T. & Hess, S. (2012), Hybrid choice models, structure, identification and estimation, Latsis symposium 2012: 1st European Symposium on Quantitative Methods in Transportation Systems, Lausanne.
- C166** Daly, A., Dekker, T. & Hess, S. (2012), Sampling of alternatives for spatial choice modelling, Latsis symposium 2012: 1st European Symposium on Quantitative Methods in Transportation Systems, Lausanne.

- C165** Hess, S., Daly, A.J., Dumont, J. & Sanko, N. (2012), When explanatory variables are unobserved: the example of latent income, resource paper presentation at the 13th International Conference on Travel Behaviour Research, Toronto.
- C164** Hess, S., Collins, A.C. & Rose, J.M. (2012), Joint modelling of decision process and choice using data from an interactive stated choice survey on air travel behaviour, 13th International Conference on Travel Behaviour Research, Toronto.
- C163** Hess, S. & Stathopoulos, A. (2012), Linking the decision process to underlying attitudes and perceptions: a latent variable latent class construct, 13th International Conference on Travel Behaviour Research, Toronto.
- C162** Arellana, J., Daly, A.J., Hess, S., Ortúzar, J.de D. & Rizzi, L. (2012), The flexibility of departure time for work based trips: an integrated choice and latent variable approach, 13th International Conference on Travel Behaviour Research, Toronto.
- C161** Dekker, T. & Hess, S. (2012), The limits of flexibility in controlling for heterogeneity in mixed multinomial logit models - an argument for using latent class models, 13th International Conference on Travel Behaviour Research, Toronto.
- C160** Rose, J.M., Hess, S., Hensher, D.A. & Greene, W.H. (2012), The Generalised Multinomial Logit model: Misinterpreting scale and preference heterogeneity in discrete choice models or untangling the un-untangle?, 13th International Conference on Travel Behaviour Research, Toronto.
- C159** Fox, J.B., Daly, A.J., Hess, S. & Miller, E. (2012), Temporal Transferability of Models of Mode-Destination Choice for the Greater Toronto and Hamilton Area, 13th International Conference on Travel Behaviour Research, Toronto.
- C158** Batley, R.P. & Hess, S. (2012), A simple test for identifying violations of the Random Utility Model (RUM), 13th International Conference on Travel Behaviour Research, Toronto.
- C157** Hess, S. & Rose, J.M. (2012), Can Scale and Coefficient Heterogeneity Be Separated in Random Coefficients Models?, 2012 Conjoint Analysis in Health Care conference, Orlando, Florida.
- C156** Hess, S. (2012), Impact of Unimportant Attributes in Stated-Choice Surveys, 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
- C155** Hess, S. & Rose, J.M. (2012), Can Scale and Coefficient Heterogeneity Be Separated in Random Coefficients Models?, 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
- C154** Hess, S. & Stathopoulos, A. (2012), Linking response quality to survey engagement: a combined random scale and latent variable approach, 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
- C153** Hess, S., Hensher, D.A. & Daly, A.J. (2012), Not bored yet – revisiting respondent fatigue in stated choice experiments, 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
- C152** O’Neill, V., Hess, S. & Campbell, D. (2012), I’ll Take the Money and You Can Have the Short Commute: Study of Household-Level Work and Travel Decisions, 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
- C151** Hess, S. & Hensher, D.A. (2012), Making Use of Respondent Reported Processing Information to Understand Attribute Importance: Latent Variable Scaling Approach, 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
- C150** Arellana, J., Daly, A.J., Hess, S., Ortúzar, J. de D. & Rizzi, L. (2012), Developing surveys for the study of departure time choice: a two-stage efficient design approach, 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C149** Hess, S., Stathopoulos, A. & Daly, A.J. (2011), Allowing for heterogeneous decision rules in discrete choice models: an approach and four case studies, European Transport Conference, Glasgow.
- C148** Johnson, D., Matthews, B., Hess, S. & Bielefeldt, C. (2011), An indirect flight from my local airport or a direct flight from an alternative airport: how does surface access influence the decision?, European Transport Conference, Glasgow.

- C147** Hess, S., Daly, A.J., Hensher, D.A. & Adler, T.J. (2011), The role of constants in WTP computation, European Transport Conference, Glasgow.
- C146** Stathopoulos, A. & Hess, S. (2011), Revisiting reference point formation, gains-losses asymmetry and non-linear sensitivity: one size does not fit all!, European Transport Conference, Glasgow.
- C145** Hess, S., Stathopoulos, A., Campbell, D., O'Neill, V. & Caussade, S. (2011), It's not that I don't care, I just don't care very much: confounding between attribute non-attendance and taste heterogeneity, European Transport Conference, Glasgow.
- C144** Hess, S. & Hensher, D.A. (2011), Making use of respondent reported processing information to understand attribute importance: a latent variable scaling approach, European Transport Conference, Glasgow.
- C143** Dumont, J., Adler, T.J., Hess, S. & Neafsey, W.C. (2011), Using individual-level parameter estimates to investigate evidence of lexicographic behaviour and heterogeneity in information processing strategies, European Transport Conference, Glasgow.
- C142** Hess, S. & Stathopoulos, A. (2011), Linking response quality to survey engagement: a combined random scale and latent variable approach, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- C141** Hess, S., Stathopoulos, A. & Daly, A.J. (2011), Allowing for heterogeneous decision rules in discrete choice models: an approach and four case studies, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- C140** Dumont, J., Adler, T.J., Hess, S. & Neafsey, W.C. (2011), Using individual-level parameter estimates to investigate evidence of lexicographic behavior and heterogeneity in information processing strategies, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- C139** Orr, S., Hess, S. & Sheldon, R. (2011), Consistency and Fungibility of Monetary Valuations in Transport: an empirical analysis of framing and mental accounting effects, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- C138** O'Neill, V.L., Hess, S., Campbell, D. & Hutchinson, G. (2011), Incorporating latent attitudes in analysing food choices, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- C137** Connors, R., Hess, S. & Daly, A. (2011), On the computation of probit choice probabilities, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- C136** Abou Zeid, M., Ben-Akiva, M.E., Bierlaire, M., Choudhury, C.F. & Hess, S. (2011), Attitudes and Value of Time Heterogeneity, 90th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C135** Daly, A.J., Hess, S. & Train, K.E. (2011), Ensuring Finite Moments for Willingness to Pay in Random Coefficient Models, 90th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C134** Rose, J.M., Hess, S., Bliemer, M.C.J. & Daly, A. (2011), Impact of Varying Number of Repeated Choice Observations on Mixed Multinomial Logit Model, 90th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C133** Orr, S., Hess, S. & Sheldon, R. (2011), Consistency and Fungibility of Monetary Valuations in Transport, 90th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C132** Rose, J.M., Hess, S. & Collins, A. (2011), Impact of Violations of Model Assumptions: Role of Lexicography, Inconsistent Choices, and Changing Preferences in Model Estimation, 90th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C131** Stathopoulos, A. & Hess, S. (2011), Modelling multi-attribute reference-dependence in choice experiments: Does one size fit all?, 90th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C130** Hess, S., Stathopoulos, A. & Daly, A.J. (2011), Mixing of Behavioural Processes: Modelling Framework and Four Case Studies, 90th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C129** Daly, A.J. & Hess, S. (2011), Simple Approaches for Random Utility Modelling with Panel Data, 90th Annual Meeting of the Transportation Research Board, Washington, D.C.

- C128** Hess, S. & Stathopoulos, A. (2010), Linking response quality to survey engagement: a combined random scale and latent variable approach, European Transport Conference, Glasgow.
- C127** Hess, S. (2010), Customising surveys to accommodate heterogeneous information processing strategies, European Transport Conference, Glasgow.
- C126** Hess, S., Hensher, D.A. & Daly, A. (2010), Not bored yet – revisiting respondent fatigue in stated choice experiments, European Transport Conference, Glasgow.
- C125** Gibson, V., Hess, S., Campbell, D. & Beharry-Borg, N. (2010), Individual versus intra-household decision making: who really wears the trousers? , European Transport Conference, Glasgow.
- C124** Orr, S., Hess, S. & Sheldon, R. (2010), Consistency and Fungibility of Monetary Valuations in Transport, European Transport Conference, Glasgow.
- C123** Daly, A.J. & Hess, S. (2010), Simple Approaches for Random Utility Modelling with Panel Data, European Transport Conference, Glasgow.
- C122** Caussade, S. & Hess, S. (2010) Customers' Willingness To Pay For Intermediate Cabins In The Airline Industry: A Trade-Off Between Improved Service And Frequent Flier Benefits, European Transport Conference, Glasgow.
- C121** Campbell, D. & Hess, S. (2010) Preference heterogeneity and attribute non-attendance: can they be separated?, European Transport Conference, Glasgow.
- C120** Daly, A., Hess, S., Patrui, B., Potoglou, D. & Rohr, C. (2010), Modelling the role of attitudes in eliciting individuals' preference across liberty, privacy and security, 12th triennial WCTR conference, Lisbon.
- C119** Rose, J.M., Hess, S., Collins, A. & Bain, S. (2010), An analysis of the impact of non-compensatory behaviour of logit model estimation, 12th triennial WCTR conference, Lisbon.
- C118** Hess, S., Fowler, M., Adler, T. & Bahreinian, A. (2010), A joint model for vehicle type and fuel type, 12th triennial WCTR conference, Lisbon.
- C117** Stathopoulos, A. & Hess, S. (2010), Modelling multi-attribute reference dependence in a commuting choice experiment: does one size fit all?, 12th triennial WCTR conference, Lisbon.
- C116** Daly, A. & Hess, S. (2010), Simple methods for panel data analysis, 12th triennial WCTR conference, Lisbon.
- C115** Hess, S. & Beharry-Borg, N. (2010), Accounting for latent attitudes in an analysis of the willingness to pay for improved water quality by beach visitors in Tobago, fourth World Congress of Environmental and Resource Economists, Montreal.
- C114** Campbell, D. & Hess, S. (2010), Outlying sensitivities in discrete choice data: consequences and remedies, fourth World Congress of Environmental and Resource Economists, Montreal.
- C113** Hess, S., Shires, J. & Bonsall, P. (2010), Treatment of Respondent Uncertainty in Stated-Choice Survey for Fare Simplification on Bus Journeys, 89th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C112** Hess, S. & Train, K.E. (2010), Approximation Issues in Simulation-Based Estimation of Random Coefficient Models, 89th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C111** Hess, S., Ryley, T., Davison, L. & Adler, T. (2010), Improving Quality of Demand Forecasts Through Cross-Nested Logit: Stated-Choice Case Study of Airport, Airline, and Access Mode Choice, 89th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C110** Hess, S., Rose, J.M. & Bain, S. (2010), Random Scale Heterogeneity in Discrete Choice Models, 89th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C109** Hess, S., Marsden, G., Shires, J., Jopson, A. & Muir, H. (2010), Analyzing Rail Travelers' Desire for Reducing Carbon Emissions from Personal Travel, 89th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C108** Fox, J. & Hess, S. (2010), Review of Evidence for Temporal Transferability of Mode-Destination Models, 89th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C107** Chorlton, K., Hess, S., Jamson, S. & Wardman, M. (2010), Deal or No Deal: Can Incentives Encourage Widespread Adoption of Intelligent Speed Adaptation Devices?, 89th Annual Meeting of the Transportation Research Board, Washington, D.C.

- C106** Hess, S. & Adler, T. (2010), Experimental Designs for the Real World, 89th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C105** Hess, S., Ben-Akiva, M., Gopinath, D., & Walker, J. (2009), Advantages of latent class choice models over continuous mixed logit models, 12th International Conference on Travel Behaviour Research, Jaipur.
- C104** Bonsall, P., Shires, J., & Hess, S. (2009), The value of simplicity: an investigation of travellers' response to simplified fare structures, 12th International Conference on Travel Behaviour Research, Jaipur.
- C103** Hess, S., Rose, J.M. & Bain, S. (2009), Random scale heterogeneity in discrete choice models, European Transport Conference, Noordwijkerhout.
- C102** Hess, S. & Rose, J.M. (2009), Some lessons in stated choice survey design, European Transport Conference, Noordwijkerhout.
- C101** Hess, S., Fowler, M., Adler, T. & Bahreinian, A. (2009), A joint model for vehicle type and fuel type, European Transport Conference, Noordwijkerhout.
- C100** Hess, S. & Adler, T. (2009), An analysis of trends in air travel behaviour using four related SP datasets collected between 2000 and 2005, European Transport Conference, Noordwijkerhout.
- C99** Daly, A., Hess, S. & Train, K. (2009), Assuring Finite Moments For Willingness To Pay In Random Coefficient Models, European Transport Conference, Noordwijkerhout.
- C98** Chorlton, K., Hess, S., Jamson, S. & Wardman, M. (2009), An investigation into the demand for Intelligent Speed Adaptation (ISA) systems in the United Kingdom, European Transport Conference, Noordwijkerhout.
- C97** Rose, J.M., Hess, S., Bliemer, M. & Daly, A. (2009), The impact of varying the number of repeated choice observations on the mixed multinomial logit model, European Transport Conference, Noordwijkerhout.
- C96** Chintakayala, P., Hess, S. & Rose, J.M. (2009), Using second preference choices in pivot surveys as a means of dealing with inertia, European Transport Conference, Noordwijkerhout.
- C95** Caussade, S. & Hess, S. (2009), An investigation into air travellers willingness to pay for ancillary service attributes within a branded fare context, European Transport Conference, Noordwijkerhout.
- C94** Campbell, D. & Hess, S. (2009), Outlying sensitivities in discrete choice data: causes, consequences and remedies, European Transport Conference, Noordwijkerhout.
- C93** Hess, S., Ben-Akiva, M., Gopinath, D. & Walker, J. (2009), Taste heterogeneity, correlation and elasticities in latent class choice models, inaugural International Choice Modelling Conference, Harrogate.
- C92** Campbell, D., Hess, S., Scarpa, R. & Rose, J.M. (2009), Using finite mixture models to accommodate preference outliers in discrete choice modelling, inaugural International Choice Modelling Conference, Harrogate.
- C91** Chintakayala, P.K., Hess, S., Rose, J.M. & Wardman, M.R. (2009), Effects of stated choice design dimensions on estimates, inaugural International Choice Modelling Conference, Harrogate.
- C90** Hess, S. & Daly, A. (2009), Calculating errors for measures derived from choice modelling estimates, 88th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C89** Hess, S. & Rose, J.M. (2009), Should reference alternatives in pivot design SC surveys be treated differently?, 88th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C88** Hess, S., Ben-Akiva, M., Gopinath, D. & Walker, J. (2009), Taste heterogeneity, correlation and elasticities in latent class choice models, 88th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C87** Hess, S. & Hensher, D.A. (2009), Using conditioning on observed choices to retrieve individual-specific attribute processing strategies, 88th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C86** Hess, S. (2009), Evidence of passenger preferences for specific types of airports, 88th Annual Meeting of the Transportation Research Board, Washington, D.C.

- C85** Collins, A.T., Rose, J.M. & Hess, S. (2009), Search based internet surveys: airline stated choice, 88th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C84** Rose, J.M. & Hess, S. (2009), Dual response choices in pivoted stated choice experiments, 88th Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C83** Collins, A., Rose, J.M., & Hess, S. (2008), Search Based Internet Surveys: Airline Stated Choice by Rose, 8th International Conference on Survey Methods in Transport, Annecy, France.
- C82** Hess, S. & Daly, A. (2008), Calculating errors for measures derived from choice modelling estimates, European Transport Conference, Noordwijkerhout.
- C81** Hess, S., Ben-Akiva, M., Gopinath, D. & Walker, J. (2008), Some developments in latent class modelling, European Transport Conference, Noordwijkerhout.
- C80** Hess, S. & Train, K.E. (2008), Approximation issues in simulation-based estimation of random coefficients models, European Transport Conference, Noordwijkerhout.
- C79** Hess, S., Rose, J.M. & Polak, J.W. (2008), Approaches for dealing with non-trading, lexicographic and inconsistent behaviour in stated choice data, European Transport Conference, Noordwijkerhout.
- C78** Chintakayala, P.K., Rose, J.M., Hess, S. & Wardman, M. (2008), UK experience with an advanced survey design for value of time studies, European Transport Conference, Noordwijkerhout.
- C77** Polak, J.W., Hess, S. & Liu, X. (2008), Characterising Heterogeneity in Attitudes to Risk in Expected Utility Models of Mode and Departure Time Choice, 87th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C76** Hess, S., Smith, C. Falzarano, C.S. & Stubits, J. (2008), Measuring Effects of Different Experimental Designs and Survey Administration Methods Using Atlanta Managed-Lanes Stated-Preference Survey, 87th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C75** Hess, S., Erath, A. & Axhausen, K.W. (2008), Joint Valuation of Travel Time Savings Estimation on Four Separate Swiss Data , 87th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C74** Hess, S. & Rose, J.M. (2008), Intra-respondent Taste Heterogeneity in Instantaneous Panel Surveys, 87th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C73** Hess, S., Rose, J.M. & Polak, J.W. (2008), Nontrading, Lexicographic, and Inconsistent Behaviour in Stated-Preference Choice , 87th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C72** Mabit, S., Hess, S. & Caussade, S. (2008), Correlation and Willingness-to-Pay Indicators in Transport Demand Modelling, 87th Annual Meeting of the Transportation Research Board, Washington, D.C.
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- C71** Polak, J.W. & Hess, S. (2007), Expected utility and non-expected utility models of risky choice: a new framework and estimation results, European Transport Conference, Noordwijkerhout.
- C70** Hess, S., Erath, A. & Axhausen, K.W. (2007), Reducing bias in value of time estimates by joint estimation on multiple datasets: a case study in Switzerland, European Transport Conference, Noordwijkerhout.
- C69** Collins, A., Hess, S. & Rose, J.M. (2007), Stated Preference survey design in air travel choice behaviour modelling, European Transport Conference, Noordwijkerhout.
- C68** Hess, S. & Rose, J.M. (2007), Obtaining further insights into taste heterogeneity by conditioning on observed choices, European Transport Conference, Noordwijkerhout.
- C67** Hess, S. & Rose, J.M. (2007), Intra-respondent taste heterogeneity in instantaneous panel data, European Transport Conference, Noordwijkerhout.
- C66** Axhausen, K.W., Hess, S., König, A., Abay, G., Bates, J.J. & Bierlaire, M. (2007), Income and distance elasticities of values of travel time savings: New Swiss results, 11th triennial WCTR conference, Berkeley, CA.

- C65** Hess, S., & Rose, J.M. (2007), Some lessons for working with repeated choice data, 11th triennial WCTR conference, Berkeley, CA.
- C64** Hess, S. & Polak, J.W. (2007), Modelling air travel choice behaviour in Greater London, 11th triennial WCTR conference, Berkeley, CA.
- C63** Hess, S., Rose, J.M., & Hensher, D.A. (2007), Asymmetrical Preference Formation in Willingness to Pay Estimates in Discrete Choice Models, 11th triennial WCTR conference, Berkeley, CA.
- C62** Hess, S. (2007), Stated preference models for airport and airline choice with conditioning on observed choices, 11th triennial WCTR conference, Berkeley, CA.
- C61** Bliemer, M.C.J., Rose, J.M. & Hess, S. (2007), Approximation of Bayesian Efficiency in Experimental Choice Designs, 11th triennial WCTR conference, Berkeley, CA.
- C60** Hess, S. (2007), Reference Dependence in SP Air Travel Data, 11th Air Transport Research Society World Conference, Berkeley, CA.
- C59** Hess, S. (2007), Posterior analysis of random taste coefficients in air travel choice behaviour modelling, 86th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C58** Hess, S., Rose, J.M., & Hensher, D.A. (2007), Asymmetrical Preference Formation in Willingness to Pay Estimates in Discrete Choice Models, 86th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C57** Rose, J.M., Hess, S. & Hensher, D.A. (2007), Examination of the respondent reported attribute processing strategies in stated choice experiments constructed from revealed preference data, 86th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C56** Bliemer, M.C.J., Rose, J.M. & Hess, S. (2007), Approximation of Bayesian Efficiency in Experimental Choice Designs, 86th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C55** Axhausen, K.W., Hess, S., König, A., Abay, G., Bates, J.J. & Bierlaire, M. (2007), State of the art estimates of the Swiss value of travel time savings, 86th Annual Meeting of the Transportation Research Board, Washington, D.C.
- C54** Hess, S. (2007), Modelling the valuation of travel time savings, Annual UTSG meeting, Harrogate.
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- C53** Hess, S., Polak, J.W., & Bierlaire, M. (2006), Confounding between substitution patterns and random taste heterogeneity, 6th Swiss Transport Research Conference, Monte Verita, Ascona.
- C52** Hess, S., Bierlaire, M. & Polak, J.W. (2006), Discrete Mixture models, 6th Swiss Transport Research Conference, Monte Verita, Ascona.
- C51** Hess, S., Axhausen, K.W. & Polak, J.W. (2006), Distributional assumptions in Mixed Logit models, 6th Swiss Transport Research Conference, Monte Verita, Ascona.
- C50** Hess, S., Rose, J.M., & Hensher, D.A. (2006), Asymmetrical Preference Formation in Willingness to Pay Estimates in Discrete Choice Models, European Transport Conference, Strasbourg.
- C49** Hess, S. (2006), Posterior analysis of random taste coefficients in air travel choice behaviour modelling, European Transport Conference, Strasbourg.
- C48** Mabit, S., Caussade, S. & Hess, S. (2006), Representation of taste heterogeneity in willingness-to-pay indicators: past mistakes, state-of-the-art, and future directions, European Transport Conference, Strasbourg.
- C47** Fosgerau, M. & Hess, S. (2006), Competing methods for representing random taste heterogeneity in discrete choice models, European Transport Conference, Strasbourg.
- C46** Hess, S., Polak, J.W. & Bierlaire, M. (2006), Confounding between substitution patterns and random taste heterogeneity, European Transport Conference, Strasbourg.
- C45** Hess, S., Bierlaire, M. & Polak, J.W. (2006), A systematic comparison of continuous and discrete mixture models, 11th International Conference on Travel Behaviour Research, Kyoto.
- C44** Hess, S., Bolduc, D. & Polak, J.W. (2006), Random covariance heterogeneity in discrete choice models, 11th International Conference on Travel Behaviour Research, Kyoto.
- C43** Hess, S., Bolduc, D. & Polak, J.W. (2006), Random Covariance Heterogeneity in Discrete Choice Models, 85th Annual Meeting of the Transportation Research Board, Washington D.C.

- C42** Hess, S., Adler, T. & Polak, J.W. (2006), Modelling Airport and Airline Choice Behaviour with Stated Preference Survey Data, 85th Annual Meeting of the Transportation Research Board, Washington D.C.
- C41** Hess, S., Axhausen, K.W. & Polak, J.W. (2006), Distributional Assumptions in Mixed Logit Models, 85th Annual Meeting of the Transportation Research Board, Washington D.C.
- C40** Hess, S. & Polak, J.W. (2006), Cross-Nested Logit Modelling of Combined Choice of Airport, Airline, and Access Mode, 85th Annual Meeting of the Transportation Research Board, Washington D.C.
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- C39** Hess, S. (2005), Competition between London Airports, Meeting of the German Aviation Research Society, Vienna.
- C38** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Discrete mixtures of GEV models, 5th Swiss Transport Research Conference, Monte Verita, Ascona.
- C37** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Mixed GEV modelling of mode-choice, 5th Swiss Transport Research Conference, Monte Verita, Ascona.
- C36** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Interpretation of counter-intuitively signed value of travel-time saving estimates, 5th Swiss Transport Research Conference, Monte Verita, Ascona.
- C35** Hess, S. & Axhausen, K.W. (2005), Distributional assumptions in the representation of random taste heterogeneity, 5th Swiss Transport Research Conference, Monte Verita, Ascona.
- C34** Hess, S. & Polak, J.W. (2005), Cross-Nested Logit modelling of the combined choice of airport, airline and access-mode, European Transport Conference, Strasbourg.
- C33** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Discrete mixtures of random utility models, European Transport Conference, Strasbourg.
- C32** Hess, S., Bolduc, D. & Polak, J.W. (2005), Random Covariance Heterogeneity in Discrete Choice Models, European Transport Conference, Strasbourg.
- C31** Rohr, C., Daly, A., Hess, S., Bates, J., Polak, J.W. & Hyman, G. (2005), Modelling Time Period Choice: Experience from the UK and the Netherlands, European Transport Conference, Strasbourg.
- C30** Hess, S., Bolduc, D. & Polak, J.W. (2005), Random Covariance Heterogeneity in Discrete Choice Models, European Regional Science Conference, Amsterdam.
- C29** Daly, A., Hess, S., Polak, J.W., Hyman, G. & Rohr, C. (2005), Modelling departure time and mode choice, European Regional Science Conference, Amsterdam.
- C28** Hess, S. (2005), Analysing air travel choice behaviour in the Greater London area, European Regional Science Conference, Amsterdam.
- C27** Hess, S., Polak, J.W. & Bierlaire, (2005), Functional approximations to alternative-specific constants in time-period choice-modelling, Transportation and Traffic Theory: Flow, Dynamics and Human Interaction, 16th International Symposium on Transportation and Traffic Theory, College Park, MA.
- C26** Hess, S., Adler, T. & Polak, J.W. (2005), Computing Willingness to pay indicators for air travellers from SP survey data, 9th Air Transport Research Society Word Conference, Rio de Janeiro.
- C25** Battersby, B. & Hess, S. (2005), Accounting for seat capacity and availability constraints in modelling air-travel choice behaviour, 9th Air Transport Research Society Word Conference, Rio de Janeiro.
- C24** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Estimation of value of travel-time savings using Mixed Logit models, 84th Annual Meeting of the Transportation Research Board, Washington D.C.
- C23** Hess, S. & Polak, J.W. (2005), Accounting for random taste heterogeneity in airport-choice modelling, 84th Annual Meeting of the Transportation Research Board, Washington D.C.
- C22** Bastin, F., Cirillo, C. & Hess, S. (2005), Evaluation of advanced optimisation methods for estimating Mixed Logit models, 84th Annual Meeting of the Transportation Research Board, Washington D.C.

- C21** Hess, S., Polak, J.W. & Daly, A.J. (2005), Flexible Substitution Patterns in Models of Mode and Time of Day Choice: New evidence from the UK and the Netherlands, 84th Annual Meeting of the Transportation Research Board, Washington D.C.
- C20** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Capturing taste heterogeneity and correlation structure with Mixed GEV models, 84th Annual Meeting of the Transportation Research Board, Washington D.C.
- C19** Hess, S. (2005), Modelling airport choice in the London area, Annual UTSG meeting, Bristol.
- C18** Hess, S. (2004), A model for the joint analysis of airport, airline, and access-mode choice for passengers departing from the San Francisco Bay area, European Transport Conference, Strasbourg.
- C17** Hess, S., Bierlaire, M. & Polak, J.W. (2004), Development and Application of a Mixed Cross-Nested Logit model, European Transport Conference, Strasbourg.
- C16** Hess, S., Polak, J.W., Daly, A. & Hyman, G. (2004), Departure Time and Mode Choice, European Transport Conference, Strasbourg.
- C15** Hess, S. & Polak, J.W. (2004), An analysis of parking behaviour using discrete choice models calibrated on SP datasets, R-sessions, European Regional Science conference, Porto.
- C14** Hess, S. (2004), An analysis of airport-choice behaviour using the Mixed Multinomial Logit model, European Regional Science Conference, Porto.
- C13** Hess, S. & Polak, J.W. (2004), On the use of Discrete Choice Models for Airport Competition with Applications to the San Francisco Bay area Airports, 10th triennial WCTR conference, Istanbul.
- C12** Hess, S., Polak, J.W. & Bierlaire, M. (2004), Development of a Mixed Cross-Nested Logit Model with an Application to Mode Choice Modelling, 10th triennial WCTR conference, Istanbul.
- C11** Hess, S. (2004), Mixed Logit modelling of airport choice in the San Francisco Bay area, 8th Air Transport Research Society Word Conference, Istanbul.
- C10** Hess, S. & Polak, J.W. (2004), Recent developments in the area of simulation-based discrete choice models, Workshop in computational econometrics and statistics, Neuchatel University.
- C9** Hess, S. (2004), Understanding airport-choice behaviour, German Aviation Research Society, Technical University, Bremen.
- C8** Hess, S., Train, K.E. & Polak, J.W. (2004), On the use of randomly shifted and shuffled uniform vectors in the estimation of a Mixed Logit model for vehicle choice, 83rd Annual Meeting of the Transportation Research Board, Washington D.C.
- C7** Hess, S. & Polak, J.W. (2004), Mixed Logit estimation of parking type choice, 83rd Annual Meeting of the Transportation Research Board, Washington D.C.
- C6** Hess, S. (2004), An analysis of the effects of speed limit enforcement cameras with differentiation by road type and catchment area, 83rd Annual Meeting of the Transportation Research Board, Washington D.C.
- C5** Hess, S. & Polak, J.W. (2004), Development and application of a model for airport competition in multi-airport regions, Annual UTSG meeting, Newcastle upon Tyne.
- C4** Jotisankasa, A., Hess, S. & Polak, J.W. (2004), On the effects of alternative discretisation strategies in departure time choice modelling, Annual UTSG meeting, Newcastle upon Tyne.
- C3** Hess, S., Polak, J.W., Daly, A.J. (2003), On the performance of shuffled Halton sequences in the estimation of discrete choice models, European Transport Conference, Strasbourg.
- C2** Hess, S. & Polak, J.W. (2003), An alternative method to the scrambled Halton sequence for removing correlation between standard Halton sequences in high dimensions, R-sessions, European Regional Science Conference, Jyväskylä.
- C1** Hess, S. & Polak, J.W. (2003), An Analysis of the Effects of Speed Limit Enforcement Cameras on Accident Rates, 82nd Annual Meeting of the Transportation Research Board, Washington D.C.

NON-ACADEMIC WORK

I have widespread experience in consulting work, covering work on all six inhabited continents, ranging from specific expert advice to large scale input into consulting projects. My work has been for industry as well as local and national authorities, with a focus not just in transport, but also in health, marketing and environmental impacts.

Affiliations

- 02/2021 – present Senior methodologist, ZS associates
- 01/2021 – present Company director, African Choice Modelling Experts (ACME)
- 03/2016 – present Company director, Choice Analysis and Training, LTD
- 05/2014 – 12/2024 Director, RSG, www.rsginc.com
- 04/2008 – 05/2014 Senior Technical Advisor, Resource Systems Group Inc., White River Junction, Vermont, USA
- 01/2006 – 12/2007 Senior Consultant, Minnerva Ltd