

# Amanda Stathopoulos

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## William Patterson Junior Chair Assistant Professor

Dep. Civil & Environmental Engineering  
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## Education

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- Jan. 2009-Dec. 2011 **Ph.D Transportation Economics**, Trieste University at DEAMS (*Department of Economics, Business, Mathematics and Statistics "Bruno de Finetti"*), Trieste, Italy, PhD Thesis: Modeling heterogeneous decision processes and joint decision-making in travel demand models (Viva completed April 2012.), Supervisors Prof. Romeo Danielis and Prof. Edoardo Marcucci.
- Oct. 2006-Jul. 2008 **M.Sc Development Economics**, Two-year MSc in Economic and Social sciences for Cooperation and Development, Sapienza University, Rome, Italy. Awarded with full marks (110/110 con lode) average mark of 29.6/30, Thesis: Interactive or unitary Households? A choice experiment on housing decision-making. Subject course: Econometrics, supervised by Prof. Francesco Carlucci.
- Sep. 2003-Nov. 2006 **BA Development Economics**, Political and economic sciences for cooperation and development, University of Roma Tre, Rome, Italy, Acceptability of urban road pricing strategies: The Stockholm trial. Subject course: Development Economics, supervised by Prof. Edoardo Marcucci

## Professional Positions

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- Sep. 2014- current **William Patterson Junior Professor Assistant Professor**, Department of Civil and Environmental Engineering, McCormick School of Engineering and Applied Science, Northwestern University, Evanston, IL, USA.
- Jan. 2012-Aug. 2014 **Research Fellow - Post-Doc**, Transportation and Mobility Laboratory, School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland.
- Aug. 2011 **Visiting Scholar**, Institute for Transport Studies (ITS), Leeds University, UK.  
Host: Prof. Stephane Hess
- Jan. 2011-Jun. 2011 **Tutor**, University of Padova and Centro 'Giorgio Lago', Rome, Italy, Advanced course on 'Policies for regional development'. Invitalia SpA. (Italian Government national agency for investments for regional development).
- Feb. 2010-Apr. 2010 **Visiting Scholar**, Institute for Transport Studies (ITS), Leeds University, UK.  
Host: Prof. Stephane Hess
- Jan. 2009-Mar. 2009 **Research Collaborator**, Department of 'Istituzioni Pubbliche Economia e Società (DIPES) at Roma Tre University and I-Com, Italian institute for competitiveness.
- Jul. 2007-Aug. 2007 **Internship**, World Food Programme, Transition and Emergency Department, H.Q., Rome, Italy.
- Jan. 2005-Feb. 2005 **Consultant**, NERA Economic Consulting, Rome, Italy.

## Research Interests

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- Travel behaviour, acceptance and adoption processes towards new mobility options and technological innovation
- Contribution of mobility innovation to urban resilience and quality of life via mixed methods research using qualitative and quantitative approaches
- Modelling transformative mobility services (automation, sharing, on-demand), focusing on model advancement to assess impact on transportation systems and diverse user groups
- Modelling (non-utility maximising) decision processes and accounting for attitudes to improve understanding of (realistic) respondent behaviour
- Freight behaviour modeling and behavior in crowd-shipping systems; interaction among stakeholders and modelling diffusion and performance of freight innovations

## Awards/Appointments & Memberships

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### Awards

- NSF CAREER Award, 2019
- Award for Best Research on Innovation paper by TRB Urban Freight Transportation Committee for "Performance Analysis of Crowd-shipping in Urban and Suburban Areas", 2018
- Northwestern Alumnae Award for Curriculum Development, 2017
- Ph.D scholarship from Trieste University 'M.I.U.R. - Progetto Giovani Ricercatori' from Italian Ministry of Education, Universities and Research, 2009-2011

### Appointments

- Appointment to the National Academies Transportation Research Board (TRB) Standing Committee on 'Statistical Methods ABJ80 (2020-2023)
  - Leading the *Workshop and Discussion Group* task-group for ABJ80 (starting 2020)
- Appointment to the National Academies Transportation Research Board (TRB) Standing Committee 'Transportation Demand Forecasting' ADB40 (2015-2021)
  - Chair of sub-committee on 'Emerging Methods and Developments in Urban Activity and Travel Analysis' for ADB40 (2015-2020)
- William Patterson Junior professorship Chair, 2015-2021, Northwestern University, Department of Civil and Environmental engineering
- Searle Teaching Program Fellow, Northwestern University (2016)
- Qualified to access Associate Professor positions through Italian National Scientific Habilitation (2014-2018)
- Honorary Fellow (Cultore della Materia) in Applied Economics and Development Economics, Italy, 2010

### Academic Memberships

- Faculty affiliate of Northwestern Spatial Intelligence and Learning Center (SILC), since 2018
- Faculty affiliate of Northwestern Transportation Center (NUTC), since 2015
- Affiliate of University of Leeds Choice Modelling Centre (CMC), since 2015
- Member of Centre for Research on the Economics of Institutions (CREI), Roma Tre University, since 2009
- Member of Italian Society of Transport Economists (SIET), since 2008

## Research Grants and Participation in Research Projects

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<p><b>State Dept.</b> Oct. 2020-2021</p>	<p><b>Embassy 2050</b>, <i>USD 418'000</i>, <i>Co-Investigator (PI Kimberly Gray)</i>, Duration: 12 m, Project with US Department of State &amp; The Bureau of Overseas Buildings Operations (OBO) on Future Innovations in Embassy Planning, Design, Construction &amp; Operation.</p>
<p><b>DOT</b> Sep. 2020-2022</p>	<p><b>University Transportation Center: Tier I Center on TELEMOBILITY Communications Technology and E-Commerce Effects on Travel Demand</b>, <i>USD 1'000'000</i>, <i>Co-Investigator, Co-leading behavioral and data team (PI Hani Mahmassani)</i>, Duration: 18 m, Funded by US Department of Transportation, (in consortium with the University of California, Berkeley, and the University of Texas, Austin).</p>
<p><b>NU-CESR</b> 2020-2021</p>	<p><b>NU Center for Engineering Sustainability and Resilience Collaborative Research Seed Grant</b>, <i>USD 60'000</i>, <i>Duration: 6 m, PI (co-PI Agnes Horvat)</i>, Awarded for project 'Community Vulnerability Index: Examining resilience to overlapping hazards'.</p>
<p><b>NHC</b> May. 2020</p>	<p><b>Resilience of Social Capital Networks to Social Distancing: Multiscale Evolution of Physical and Virtual Support Networks</b>, <i>USD 2.8k</i>, <i>PI</i>, Duration: 6 m, Funded by Natural Hazards Center – COVID-19 Quick Response research grant.</p>
<p><b>NSF-Career</b> Mar. 2019–2024.</p>	<p><b>Transformative mobility analysis: Mixed Methods framework</b>, <i>USD 500'000</i>, <i>PI</i>, Duration: 60 m, Funded by US National Science Foundation, Civil, Mechanical and Manufacturing Innovation (CMMI) Civil Infrastructure Systems #1847537.</p>
<p><b>DOT-FHWA</b> Dec. 2018–Sep 2019</p>	<p><b>Models and policy tools for emerging transportation services: Promoting socially inclusive outcomes</b>, <i>USD 5'000</i>, <i>PI (Supported J. Soria)</i>, Duration: 12m, Funded by US Department of Transportation Federal Highway Administration # 693JJ31945046.</p>
<p><b>NSF-BIC</b> Sept. 2015–2018, extension 2019.</p>	<p><b>Smart CROWdsourced Urban Delivery (CROUD) System</b>, <i>USD 1'000'000</i>, <i>co-PI (PI Yu (Marco) Nie)</i>, Duration: 36 m, Funded by US National Science Foundation: Partnership For Innovation - Building Innovation capacity (in consortium with the Kellogg School at NU &amp; University of Illinois at Chicago) #1534138.</p>
<p><b>NU-Finite Earth</b> Sept-Mar. 2019</p>	<p><b>NU Finite Earth Initiative Data Science Award</b>, <i>USD 35'000</i>, <i>Duration: 6 m, PI (co-PI Wei Chen)</i>, Awarded for project 'Shaping energy futures: understanding adoption of clean technology using novel data sources'.</p>

- NU-NICO** **NU Institute for Complex Systems (NICO) Data Science Initiative award**, USD 35'000, Duration: 6 m, PI (co-PI's Agnes Horvat, Ying Chen), Awarded for project 'Is ours better than mine: Investigating collaborative consumption systems'.
- May-Sept. 2017
- NU-Alumnae** **Alumnae of Northwestern University Award for Curriculum Development**, USD 12'500, Duration: 2 m, sole PI, awarded to develop new undergraduate CEE course "Engineering Possibilities: Decision Science in the Age of Smart Technologies", link to Alumnae award.
- Aug-Sept. 2017
- NISSAN** **ELECTRIC VEHICLE ADOPTION DYNAMICS: EXPLORING MARKET POTENTIALS**, CHF 450'000, *Project Manager* (PI M. Bierlaire, Collaborator A. Fernández Antolín), Duration: 36 m, Funded by Nissan International.
- Mar. 2014–Sept 2014.
- SNSF** **CAPTURING LATENT CONCEPTS WITH NON INVASIVE SENSING SYSTEMS**, CHF 180'150, *Project Manager* (PI M. Bierlaire, Collaborator E. Kazagli), Duration: 2013–2016, Funded by the Swiss National Science Foundation, Grant #200021\_146621.
- Sep. 2013–2016.
- Constellium** **Project Manager**, Scientific service contract for Constellium / Innovation Cells, CHF 35'000 École Polytechnique Fédérale de Lausanne (EPFL), Switzerland; Outcome: choice experiment adapted to evaluate market viability and pricing strategy of novel aerospace product.
- Jul. 2012-Dec. 2012
- PSA Peugeot Citroën** **A DYNAMIC VEHICLE CHOICE FORECASTING FRAMEWORK**, CHF 98'400, *Project Manager* (PI M. Bierlaire, Collaborator A. Glerum), Duration: 12 m, Aim: develop a novel methodology for forecasting car ownership transition behaviour and model attitude profiles, PSA Peugeot Citroën.
- Apr. 2012-Mar. 2013
- PRIN** **METHODS AND MODELS FOR EFFICIENT ESTIMATION OF URBAN FREIGHT DISTRIBUTION STRATEGIES**, EURO 36'869, *Project Collaborator* (PI F. Filippi), Duration: 24 m. Funded by Italian PRIN (Research Program of Relevant National Interest), Grant #2008-YEPPM3-005
- Mar. 2010-Sep. 2012
- VRef** **INNOVATIVE SOLUTIONS TO FREIGHT DISTRIBUTION IN THE COMPLEX LARGE URBAN AREA OF ROME**, *Project Collaborator* (PI F. Filippi), Duration: 48 m, Task: Coordinator and organizer of focus-group meetings with stakeholders and CAPI interviews with urban freight operators in Rome's Limited Traffic Zone, Funded by Volvo Research Foundation, Grant #SP-2007-50.
- Jan. 2009-Dec. 2010

## Publications

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Summary peer-reviewed publications: Journals (J): 38; Books: 1; Book Chapters (BC): 4; subm: 4; Editor of special issues: 5  
 \*Northwestern PhD, ◇ MS, ▷ UG, ‡ post-doc

### Citations

- Citations in Google Scholar: 1398, h-index: 18, i10-index: 25
- Scopus, h-index: 15

### Book

- B1** Marcucci, E., Gatta, E, Valeri, E. Stathopoulos, A. (2013) Urban Freight Transport Modelling: An Agent-specific Approach, Franco Angeli Editor, Milan, Italy

### Papers in Journals - submitted/under review

- SubJ4** Sha, Z., Cui, Y., Xiao, Y., Stathopoulos, Contractor, N., Fu, Y., Chen, W., (2021) "Choice Modeling for Engineering Design: A Comparative Study on Utility-Based Approach and Network-Based Approach" *Submitted to Journal of Choice Modelling*
- SubJ3** Tahlyan, D., Stathopoulos, A., Maness, M. (2021) "Disentangling Social Capital – Understanding the Effect of Social Support and Social Network Resources on Social Activity Participation" *Submitted to Sustainable Cities and Society*
- SubJ2** Borowski, E\*, Soria, J\*, Schofer, J. Stathopoulos, A. (2020) "Ridesourcing Demand During Rail Transit Disruptions: A Multilevel Analysis of Neighborhood Effects in Chicago, Illinois" *Under review: Transportation Research Part A: Policy and Practice*
- SubJ1** Soria, J\*, Stathopoulos, A. (2020) "Spatial Variation of Ridesourcing Demand: Comparing Community Determinants for Solo Versus Pooled Rides" *Revise & Re-submit: Journal of Transport Geography*

### Peer-reviewed journal papers - recently accepted

- J39** Borowski, E\*, Limontitla Cedillo, V▷., Stathopoulos, A. (2021) "Dueling emergencies: Flood evacuation ridesharing during the COVID-19 pandemic" **Transportation Research Interdisciplinary Perspectives**, Vol. 10, 100352
- J38** Said, M\*, Biehl, A\*, Stathopoulos, A. (2021) "Interdependence in active mobility adoption: Joint modelling and motivational spill-over in walking, cycling and bike-sharing", **International Journal of Sustainable Transportation**, accepted Jan 31

- J37 Harb, M., Stathopoulos, A., Shiftan, Y., Walker, J. (2021) "What Do We (Not) Know About Our Future with Automated Vehicles? A Literature Review of Travel-Related Behavior Implications" **Transportation Research Part C: Emerging Technologies**, accepted, Dec 24th 2020

#### Peer-reviewed journal papers - published

- J36 Ermagun, A., Stathopoulos, A. (2021) "Crowd-Shipping Delivery Performance from Bidding to Delivering" **Research in Transportation Business & Management**, accepted Dec 1st 2020
- J35 Biehl, A., Stathopoulos, A. (2020) "Investigating the Interconnectedness of Active Transportation and Public Transit Usage as a Primer for Mobility-as-a-Service Adoption and Deployment" **Journal of Transport & Health**, Vol. 18, 100897
- J34 Soria, J., Chen, Y., Stathopoulos, A. (2020) "K-Prototype Segmentation Analysis on Large-scale Ridesourcing Trip Data" **Transportation Research record**, Vol. 9, p. 383-394
- J33 Borowski, E., Stathopoulos, A. (2020) "On-demand ridesourcing for urban emergency evacuation events: An exploration of message content, emotionality, and intersectionality" **International Journal of Disaster Risk Reduction**, Vol. 44, pp. 101406
- J32 Ermagun, A., Punel, A., Stathopoulos, A. (2020) "Shipment Status Prediction in Online Crowd-Sourced Shipping Platforms" **Sustainable Cities and Society** Vol. 53, pp. 101950
- J31 Ermagun, A., Shamshirpour, A., Stathopoulos, A. (2020) "Performance Analysis of Crowd-Shipping in Urban and Suburban Areas" **Transportation** Vol. 47, pp. 1955-1985
- J30 Le, T., Stathopoulos, A., Van Woensel, T., Ukkusuri, S.V (2019) "Supply, Demand, Operations, and Management of Crowd-shipping Services: A Review and Empirical Evidence" **Transportation Research Part C: Emerging Technologies** Vol. 103, pp 83-103
- J29 Sha, Z., Bi, Y., Wang, M., Stathopoulos, A., Contractor, N., Fu, Y. and Chen, W. (2019) "Comparing Utility-Based and Network-Based Approaches in Modeling Customer Preferences for Engineering Design" **Proceedings of the Design Society 22nd International Conference on Engineering Design (ICED19)** Vol. 1, No. 1, pp. 3831-3840, Cambridge University Press.
- J28 Mete, F., Chen, Y., Stathopoulos, A., Corr, D. (2019) "Comparative study of predictive analysis methods to estimate Bridge response" **Transportation Research record** Vol. 2673, issue 9, pp 365-376
- J27 Biehl, A., Ermagun, A., Stathopoulos, A. (2019) "Utilizing stage-based behavioral theory to model the process of bikeshare adoption" **Transportation Policy** Vol. 77, pp 30-45
- J26 Punel, A., Ermagun, A., Stathopoulos, A. (2019) "Push and Pull Factors in Adopting a Crowdsourced Delivery System" **Transportation Research record** Vol. 2673 issue 7, pp 529-540
- J25 Biehl, A., Chen, Y., Sanabria-Veaz, K., Uttal, D., Stathopoulos, A. (2019) "Where does active travel fit within local community narratives of mobility space and place?" **Transportation Research Part A: Policy and Practice** Vol. 123, pp 269-287
- J24 Biehl, A., Ermagun, A., Stathopoulos, A. (2018) "Community mobility MAUP-ing: A Socio-Spatial Investigation of Bikeshare Demand in Chicago" **Journal of Transport Geography** Vol. 66. pp 80-90
- J23 Biehl, A., Ermagun, A., Stathopoulos, A. (2018) "Modelling determinants of walking and cycling adoption: A stage-of-change perspective" **Transportation Research Part F: Traffic Psychology and Behaviour** Vol. 58, pp 452-470
- J22 Ermagun, A., Stathopoulos, A. (2018) "To Bid or Not To Bid: The Supply Determinants of Crowd-Shipping" **Transportation Research Part A: Policy and Practice**, Vol. 116, pp 468-483
- J21 Punel, A., Ermagun, A., Stathopoulos, A. (2018) "Studying Determinants of Crowd-shipping Use" **Travel Behaviour and Society** Vol. 12, pp. 30-40
- J20 Stathopoulos, A., Sener, I. (2017). "Transforming mobility systems with sharing and automation" **Transportation**, Vol. 44(6), pp 1255-1259 <http://rdcu.be/vKi8>
- J19 Punel, A., Stathopoulos, A. (2017) "Modeling the acceptability of crowdsourced goods deliveries: role of context and experience effects", **Transportation Research Part E: Logistics and reviews** Vol. 105, pp. 18-38
- J18 Varotto, S., Glerum, A., Stathopoulos, A., Bierlaire, M., Longo, G. (2017) "Mitigating the impact of errors in travel time reporting on mode choice modelling" **Journal of Transport Geography** vol 62, pp. 236-246
- J17 Stathopoulos, A., Cirillo, C., Cherchi, E., Ben-Elia, E., Li, Y-T., Schmocker, J-D. (2017) "Innovation adoption modeling in transportation: new models and data", **Journal of Choice Modelling**, Vol. 65, pp 61-68
- J16 He, M., Lu, H., Stathopoulos, A., Nie, M. (2017) "Characterization of Trip-level Pace Variability based on Taxi GPS Trajectory Data", **Transportation Research Record**, Vol. 2667, issue 1, pp 51-60
- J15 Miller, J., Nie, M., Stathopoulos, A. (2017) "Crowdsourced Urban Package Delivery: modelling traveler Willingness to Work as Crowdshippers", **Transportation Research Record** Vol. 2610 issue: 1, pp 67-75
- J14 Hess, S., Stathopoulos, A. (2014). "A mixed random utility - random regret model linking the choice of decision rule to latent character traits" **Journal of Choice Modelling**, Vol. 9, pp 27-38

- J13** Stathopoulos, A., Marcucci, E., (2014). "De Gustibus Disputandum Est: Non-Linearity in Public Transportation Service Quality Evaluation". **International Journal of Sustainable Transportation**, Vol. 8(3), pp 47-68
- J12** Stathopoulos, A., Marcucci, E. (2014). "Measuring service quality and local public transport performance" **International Journal of Sustainable Transportation**, Vol. 8(1), pp 1-4
- J11** Hess, S., Stathopoulos, A., (2013). "Linking response quality to survey engagement: a combined random scale and latent variable approach". **Journal of Choice Modelling**, Vol. 7, pp 1-12
- J10** 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". **Transportation**, Vol. 40(3), pp 583-607
- J9** Stathopoulos, A., Valeri, E., Marcucci, E., (2013). "Urban freight policy acceptability: Eliciting agent specific preferences via efficient experimental design". **Zeitschrift für Verkehrswissenschaft**, Vol. 84(3), pp 237-259
- J8** Stathopoulos, A., Hess, S., (2012). "Revisiting reference point formation, gains-losses asymmetry and non-linear sensitivities with an emphasis on attribute specific treatment". **Transportation Research Part A: Policy and Practice**, Vol. 46(10), pp 1673-1689
- J7** Hess, S., Stathopoulos, A., Daly, A., (2012). "Allowing for heterogeneous decision rules in discrete choice models: an approach and four case studies". **Transportation**, Vol. 39(3), pp 565-59
- J6** Stathopoulos, A., Valeri, E., Marcucci, E., (2012). "Stakeholder reactions to urban freight policy innovation". **Journal of Transport Geography**, Vol. 34(1), pp 15-38
- J5** Marcucci, E., Stathopoulos, A., (2012). "Multi-level governance and transport policy: the case of local roads in Italy". **International Journal of Transport Economics**, Vol. 34(1), pp 15-38
- J4** Valeri, E., Stathopoulos, A., Marcucci, E., (2012). "Energy efficiency in the transport sector, policy evolutions and evaluation in some european countries". **Economics and Policy of Energy and the Environment**, Vol. 2(2), pp 1-36
- J3** Marcucci, E., Stathopoulos, A., Gatta, V., Valeri, E., (2012). "A stated ranking experiment to study policy acceptance: the case of freight operators in Rome's LTZ". **Regional Science/Scienze Regionali**, Vol. 3, pp 11-30
- J2** Marcucci, E., Stathopoulos, A., Danielis, R., (2012). "Urban freight policies and tourism. The case of own-account operators in Rome's limited traffic zone". **Italian Review of Economics, Demography and Statistics**, Vol. 66(2), pp 121-139
- J1** Marcucci, E., Stathopoulos, A., Danielis, R., Rotaris, L., (2011). "Comparing single and joint preferences: A choice experiment on residential location in three-member households". **Environment and Planning, Part A**, Vol. 43(5), pp 1209 - 1225

#### Journal Papers in Journals: Italian

- IJ1** Stathopoulos, A., Marcucci, E., 2012. Scelta residenziale delle famiglie: ruolo dell'interazione fra membri e impatto territoriale. **EyesReg - Journal of the Italian Association of Regional Science**, Vol. 1(1), online

#### Papers in preparation

- Prep8** Sha, Z., Cui, Y., Xiao, Y., Stathopoulos, A., Contractor, N., Fu, Y., Chen, W. (2020) "Choice Modeling for Engineering Design: A Comparative Study on Utility-Based Approach and Network-Based Approach" *in preparation*
- Prep7** Said, M\*, Soria, J\*, Stathopoulos (2020) "Shifting Behaviors in Unprecedented Times: How Are Intentions to Use Shared Modes Changing During the COVID-19 Pandemic" *Submitted to Transportation Research Board Annual Conference 2021*
- Prep5** Biehl, A\*, Chen, Y., Stathopoulos, A. (2020) "Susceptibility to Behavioral or Cognitive Change : Using Support Vector Machine modelling for stages of change" *in preparation*
- Prep4** Soria, E\*, Stathopoulos, A. (2020) "Transportation network companies in the new transportation ecosystem" *in preparation*
- Prep3** Soria, J\*, Chen, Y., Stathopoulos, A. (2020) "Competing on-demand mobility services: Spatial and Sociodemographic investigation of Taxi and Ridesourcing services in Chicago, Illinois", *in preparation*
- Prep2** Punel, A\*, Stathopoulos, A. Horvat, A. (2020) "Modeling Driver Behavior in Crowd-shipping systems", *Submitted to The international conference series on Advances in Social Network Analysis and Mining (ASONAM )*
- Prep1** Punel, A\*. Said, M\*. Chen, Y., Stathopoulos, A (2019) 'Peer-to-peer Shipping Platform Matching Performance via Communication Analysis' *in preparation*

#### Editor of Special Issues

- E5** Stathopoulos, A., with Nie, M, Ban, J. 2018. Editor of special issue "Transportation System Analysis for Better Policy-Making" **Transportation**
- E4** Stathopoulos, A., with Sener, I, 2017. Editor of special issue "Transforming mobility systems with sharing and automation" **Transportation**, Vol. 44(6), pp 1255-1259 <http://rdcu.be/vKi8>

- E3** Stathopoulos, A., with Lin, J., Nie, MI, 2017. Editor of special issue "Emerging Urban Mobility Services: Characterization, Modeling and Application" **Transportation Research Part C: Emerging Technologies**, Vol. 44(6), pp 1255-1259 <http://rdcu.be/vKi8>
- E2** Stathopoulos, A., with Marcucci, E., 2014. Editor of special issue "Measuring Service Quality and Local Public Transport Performance" **International Journal of Sustainable Transportation**, Vol. 8(3), pp 1-4
- E1** Marcucci, E., Stathopoulos, A., 2012. Editor of special issue "Quality, Regulation and Environmental Sustainability in Public Transport". **International Journal of Transport Economics**, Vol. 34(1), pp 15-38

#### Writing and coverage In the broader press

- Biehl, A.★., Stathopoulos, A. Transport Policy and Well-Being: Curing a New Pathology of the Urban Traveler, *Northwestern Public Health Review*, 2019
- WTTW Chicago's PBS station Alex Ruppenthal "Chicago's Divvy Divide: Convenient Bike-Share Program or Sign of Gentrification?" Jan 4, 2019
- Smart Cities Dive, Jason Plautz "As bike-share expands, neighborhood perception is key" Jan 2, 2019
- Chicago streets blog, Lynda Lopez "A Tale of Two Communities: Views on Transportation in Humboldt Park and Evanston" Dec 13, 2018
- American Association for the Advancement of Science (AAAS) EurekAlert! "Neighborhoods influence Chicagoans' transportation decisions" Nov 29, 2018
- Association of Psychological Science Publication "Psychological Research May Offer a Route to Greener Travel" Aug 1, 2018

#### Book Chapters

- BC4** Shiftan, Y., Stathopoulos, A. (2020) On automation and self-driving (eds Goulias, K., Davis, A.), in *Mapping the Travel Behavior Genome*, Wiley & Sons, Hoboken NJ, pp 635-673
- BC3** Valeri, E., Stathopoulos, A., Marcucci, E., Gatta, (2016) Travelers' Perceptions of Security for Long Distance Travel: An Exploratory Italian Study (eds Hakim, S., Albert, G., Shiftan, Y), in *Securing Transportation Systems*, Wiley & Sons, Hoboken NJ, pp 91-107
- BC2** Marcucci, E., Valeri, E., Stathopoulos, A., Gatta, (2012) Local public transport, service quality and tendering contracts (eds Venezia, E.), in: *Urban Sustainable Mobility*, Franco Angeli, Milan, Italy
- BC1** Stathopoulos, A., Valeri, E., Marcucci, E., Gatta, V., Nuzzolo, A., Comi, A., (2011) Urban freight policy innovation for Rome's LTZ: A stakeholder perspective, in: 'City distribution and urban freight transport: multiple perspectives' (eds Macharis, C., and Melo, S.), Edward Elgar Publishing, Cheltenham UK

#### Book Chapters: Italian

- IBC7** Stathopoulos, A., Valeri, E., Marcucci, E., Gatta, V., (2011). La mobilità urbana delle merci: in 'Linee guida dei piani di logistica urbana sostenibile (ed. Delle Site, Filippi, Nuzzolo), Maggioli Editore, Santarcangelo, ISBN 8838782015
- IBC6** Stathopoulos, A., Valeri, E., Marcucci, E., Gatta, V., (2011). Analisi delle preferenze per politiche di logistica urbana nella ZTL di Roma, in: in 'Sostenibilità, Qualità e Sicurezza nei Sistemi di Trasporto e Logistica (ed. Marcucci, E.), Franco Angeli, Milano, ISBN 978-88-568-3742-1
- IBC5** Stathopoulos, A., (2010). Household residential preferences: a choice experiment to compare joint and separate decisions, in: *Competitività del sistema e ricadute sul territorio*, (eds Borruso, G., Danielis, R., Musso, E.) Franco Angeli, Milano, ISBN 978-88-568-2528-2
- IBC4** Stathopoulos, A., (2010). Uso di mezzi a due ruote e politiche di sviluppo sostenibile, in: *Sviluppo sostenibile, tutela dell'ambiente e della salute umana*, Morlacchi Editore, Perugia. ISBN 978-88-6074-339-8
- IBC3** Valeri, E., Stathopoulos, A., Marcucci, E., Gatta, V., Rotaris, L., (2010). Ottimizzazione della logistica distributiva nella ZTL a Roma: ruolo degli attori e processo decisionale, in: *Sviluppo sostenibile, tutela dell'ambiente e della salute umana*, Morlacchi Editore, Perugia. ISBN 978-88-6074-339-8
- IBC2** Stathopoulos, A., (2008). Congestion policy and public acceptability in practice: Lessons from Stockholm on the role of choice, in: *Economia dei trasporti e logistica economica: Ricerca per l'innovazione e politiche di governance*, (Ed Forte, E.), Giordano Editore, Milano.
- IBC1** Stathopoulos, A., (2008). La politica di tariffazione marginale delle strade: preoccupazione ambientale o problema di accessibilità?, in: *Sviluppo sostenibile, Tutela dell'Ambiente e della Salute Umana*, Morlacchi Editore, Perugia.

#### Online working papers

- WP3** Hess, S., Stathopoulos, A., 2011, Linking response quality to survey engagement: a combined random scale and latent variable approach, Institute for Transport Studies, ITS Working Paper, University of Leeds, →download

- WP2** Stathopoulos, A., Hess, S., 2011, Referencing, Gains-Losses Asymmetry And Non- Linear Sensitivities In Commuter Decisions: One Size Does Not Fit All!, CREI Working Papers 0511, Università degli Studi Roma Tre, →download
- WP1** Marcucci, E., Stathopoulos, A., Danielis, R., Rotaris, L., 2010, Residential choices and interaction in three-member households: a choice experiment, University of Urbino 'Carlo Bo' working Paper series, Department of Economics, No 1012, →download

### Conference proceedings

- C38** Biehl, A\*, Stathopoulos, A. Applying and Assessing the Stages of Change for Modeling Active Mobility Adoption, American Association for Public Opinion Research 75th Annual Conference, Virtual, June 11-12, 2020
- C37** Borowski, E\*, Stathopoulos, A. On-Demand Ridesourcing for Emergency Relocation: An Exploratory Analysis of Context and Emotionality, Transportation Research Board 98th Annual Meeting, 19-05418, 2019
- C36** Biehl, A\*, Said, M\*, Stathopoulos, A. Parallel Decision-Making Processes: a Bivariate Ordered Probit, Stage-of-Change Approach to Model the Adoption of Walking, Cycling, and Bike-sharing, Transportation Research Board 98th Annual Meeting, 19-03330, 2019
- C35** Biehl, A\*, Stathopoulos, A. Combining Continuum and Multi-Stage Psychological Frameworks through a MIMIC model: A Joint Exploration of Active Travel and Public Transit Usage, Transportation Research Board 98th Annual Meeting, 19-01814, 2019
- C34** Ermagun, A.†, Stathopoulos, A. Analyzing the Crowd-Shipping Delivery Performance from Bidding to Delivering, Transportation Research Board 98th Annual Meeting, 19-03950, 2019
- C33** Punel, A\*, Ermagun, A.†, Stathopoulos, A. How Different Are Crowd-shipping Users and Non-users?, Transportation Research Board 97th Annual Meeting Transportation Research Board, 18-05587, 2018
- C32** Biehl, A\*, Ermagun, A.†, Stathopoulos, A. What Drives Behavioral Change? An Application of the Transtheoretical Model to Walking and Cycling Behavior, Transportation Research Board 97th Annual Meeting Transportation Research Board, 18-05522, 2018
- C31** Biehl, A\*, Ermagun, A.†, Stathopoulos, A. Utilizing stage-based behavioral theory to model the process of bikeshare adoption, Transportation Research Board 97th Annual Meeting Transportation Research Board, 18-05526, 2018
- C30** Biehl, A\*, Ermagun, A.†, Stathopoulos, A. A Critical Review of the Transtheoretical Model for Exploring New Routes to Achieving Travel Behavior Change, Transportation Research Board 97th Annual Meeting Transportation Research Board, 18-05515, 2018
- C29** Punel, A\*, Ermagun, A.†, Stathopoulos, A. A Dynamic Prediction of Shipment Status in Crowd-Sourced Delivery Platforms, Transportation Research Board 97th Annual Meeting Transportation Research Board, 18-06436, 2018
- C28** Biehl, A\*, Ermagun, A.†, Stathopoulos, A. Community MAUP-ing: A Socio-Spatial Investigation of Bikeshare Demand in Chicago, Transportation Research Board 97th Annual Meeting, 18-05503, 2018
- C27** Mete, F\*, Chen, Y.†, Stathopoulos, A., Corr, D. Assessment of Bridge Performance Through Statistical and Machine Learning Algorithms: A Comparative Study, Transportation Research Board 96th Annual Meeting, 2017
- C26** Biehl, A\*, Ermagun, A.†, Stathopoulos, A. Towards a framework for identifying success parameters for equitable bike sharing, Association of American Geographers (annual meeting), Philadelphia, 2017
- C25** Punel, A\*, Stathopoulos, A. Modeling Behavior and Acceptance of Crowdshipping, 58th Transportation Research Forum, Chicago, April 20-21, 2017
- C24** Punel, A\*, Ermagun, A.†, Stathopoulos, A. Modeling the Acceptability of Crowdsourced Goods Deliveries, INFORMS Transportation and Logistics Society, First Triennial Conference, Chicago, Illinois, USA July 26-29, 2017
- C23** Miller, J\*, Nie, M. Stathopoulos, A. Crowdsourced Urban Package Delivery: modelling traveler Willingness to Work as Crowdshippers, Transportation Research Board 96th Annual Meeting, 2017
- C22** Punel, A\*. Stathopoulos, A. Exploratory Analysis of Crowdsourced Delivery Service Through a Stated Preference Experiment, Transportation Research Board 96th Annual Meeting Transportation Research Board, Washington, 2017
- C21** Biehl, A\*. Chen, Y, Uttal, D. Stathopoulos, A. Exploring Active Transport Needs in a Chicago Neighborhood Using Focus Groups, TRB, Washington, 2017
- C20** Varotto, S. Glerum, A. Stathopoulos, A., and Bierlaire, M. Modelling travel time perception in transport mode choices, Proc. Swiss Transport Research Conference, Monte Verità, Switzerland, 2014
- C19** Hanseler, F. Molyneaux, N. Stathopoulos, A., and Bierlaire, M. Schedule-based estimation of pedestrian demand within a railway station, Proc. Swiss Transport Research Conference, Monte Verità, Switzerland, 2014
- C18** Antolin, A. Stathopoulos, A., and Bierlaire, M. Exploratory analysis of endogeneity in discrete choice models, Proc. Swiss Transport Research Conference, Monte Verità, Switzerland, 2014

- C17** Hess, S., Stathopoulos, A. Linking the decision process to indicators of real world perceptions in a latent variable latent class approach, Transportation Research Board 93rd Annual Meeting Transportation Research Board, 14-4894, Washington, 2014
- C16** Stathopoulos, A., Glerum, A., Thémans, M., and Bierlaire, M. Dynamic vehicle ownership forecasting, Proc. Swiss Transport Research Conference, Monte Verità, Switzerland, Apr. 24-26, 2013
- C15** Stathopoulos, A., Glerum, A., Thémans, M., and Bierlaire, M. Dynamic vehicle ownership forecasting, Proc. European Symposium on Quantitative Methods in Transportation Systems, Lausanne, Switzerland, Sep. 4-7, 2012
- C14** Stathopoulos, A., Marcucci, E., Heterogeneity in Urban Freight Policy Analysis: The Case of Own-Account Retailers and Transport Providers in Rome's LTZ, Proc. International Conference on Travel Behavior Research, Toronto, US, Jul. 15-20, 2012
- C13** Hess, S. Stathopoulos, A., Linking the decision process to underlying constructs in a latent variable latent class approach: first round, Proc. International Conference on Travel Behavior Research, University of Toronto, US, Jul. 15-20, 2012
- C12** Hess, S. Stathopoulos, A., Daly, A., Allowing for heterogeneous decision rules in discrete choice models: an approach and four case studies, International Choice Modeling Conference, Jul. 4-6, Oulton, UK, 2011
- C11** Hess, S., Stathopoulos, A., Linking response quality to survey engagement: a combined random scale and latent variable approach, International Choice Modeling Conference, Jul. 4-6, Oulton, UK, 2011
- C10** Stathopoulos, A., Hess, S., Modeling multi-attribute reference-dependence in choice experiments: Does one size fit all?, Proc. TRB (Traveler Behavior and Values Committee (ADB10)), Washington DC, US, Jan. 23-27, 2011
- C9** Stathopoulos, A., Valeri, E., Marcucci, E. Stakeholder acceptability of freight policy innovation: Lessons from Rome's Limited Traffic Zone, Proc. TRB (reviewed by Planning Paper Review Subcommittee (AT025(1))), Washington DC, US, Jan. 23-27, 2011
- C8** Hess, S., Stathopoulos, A., Daly, A., Mixing of behavioral processes: a modeling framework and four case studies, Proc. TRB (reviewed by Transportation Demand Forecasting Committee (ADB40)), Washington DC, US, Jan. 23-27, 2011
- C7** Marcucci, E. Gatta, V. Stathopoulos, A. E Valeri., Designing an Efficient Stated Ranking Experiment for Ex Ante Urban Freight Policy Evaluation in a Three Agent Type Context: Retailers, Own-Account and Carrier, SIET, Italy, 2011
- C6** Hess, S., Stathopoulos, A., Linking response quality to survey engagement: a combined random scale and latent variable approach. Proc. European Transport Conference, Glasgow, UK, Oct. 11-13, 2010
- C5** Stathopoulos, A., Hess, S. Modeling multi-attribute reference-dependence in choice experiments: Does one size fit all?. Proc. World Conference on Transport, Lisbon, Portugal, Jul. 11-15, 2010
- C4** Stathopoulos, A., Valeri, E., Marcucci, E., Acceptability of freight policy innovation from a stakeholder perspective: Rome's limited traffic zone. Proc. World Conference on Transport, Lisbon, Portugal, Jul. 11-15, 2010
- C3** Marcucci, E., Stathopoulos, A Danielis. R., Rotaris. L. Residential location preferences and relative power in three-member households: a choice experiment. Proc International Conference of the International Association for Travel Behaviour Research (IATBR), Jaipur, India, Dec. 13-18 2009
- C2** Marcucci, E., Stathopoulos, A., Danielis. R., Rotaris. L.: Environmental quality and accessibility trade-offs in household residential location choices: A choice experiment to measure member interaction and relative power. Proc. Kuhmo-Nectar IV International Conference on Pricing, Financing, Regulating Transport Infrastructures and Services, Urbino, Italy, Jul. 9-11, 2007
- C1** Stathopoulos, A.: Acceptance of road pricing between personal experience and political bias: The Stockholm trial. Proc. Kuhmo-Nectar IV International Conference on Pricing, Financing, Regulating Transport Infrastructures and Services, Urbino, Italy, Jul. 9-11, 2007

## Presentations at Scientific Meetings and Workshops

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### Invited Speaker in Seminars and Workshops

- talk&panel: "Do Revealed Preferences Tell us Much about our Travel Needs?", Transportation Research Board Plenary Lectern, Standing Committee on Transportation Demand Forecasting (AEP50), Jan 25th, 2021
- talk: University of Chicago, Environmental data science, Seminar Series – Virtual talk, Jan 14th 2021
- talk: Eindhoven University of Technology, Operations, Planning, Accounting, and Control Group Seminar, Dep. IE – Virtual talk, Dec 10, 2020
- talk: "Modeling Ridesourcing effects on communities: opportunities and challenges for urban mobility systems", University of South Florida, Transportation Research Seminar series, Virtual talk, Oct 23, 2020
- talk: "Modeling Innovative Mobility Services: Future of Passenger and Freight Movement" Presentation at The 4th NYUAD Transportation Symposium, University of New York Abu Dhabi, (organisers: Samer Madanat, Ali Diabat, Monica Menendez, Saif Jabari), Arab Emirates, Nov. 2018



- talk: “Models of human decisions for improving sustainability policy”; Campus Partners meeting (NU, Lurie Children’s and Shirley Ryan Ability Lab), Chicago, US, Sept 17, 2018
- talk: “Nearly neoclassical – choice analysis in practice balancing prediction and description”; Invited Presentation at workshop in honour of McFadden, University of California at Santa Barbara, (organisers: Stephane Hess, Joan Walker, Moshe Ben-Akiva), Santa Barbara, US, July 2018
- Presiding: Workshop on Automation, IATBR Annual International Association of Travel Behavior Research, co-organized with Yoram Shiftan., Santa-Barbara, US, July 16, 2018
- talk&panel: “Resilience for people and communities”, Center for Resilient Communities - Inaugural workshop, Northwestern, Evanston, US, Apr. 19-20, 2018
- talk: Envisioning Future Cities; National Science Foundation’s workshop From science fiction to smart, sustainable, and resilient urban systems, New York, US, Aug 2017
- talk: “Empirical analysis of crowd-sourced freight deliveries”, Choice Modelling Centre Seminar, Institute for Transport Studies, University of Leeds, UK, Nov 10, 2016
- talk&panel: “A research perspective on new tools to facilitate crowd sourced package delivery”, NUTC Business Advisory Committee Meeting, Evanston, US, Apr 21, 2016
- Presiding: Workshop on Innovation Adoption Modeling, Fourteenth International Conference on Travel Behaviour Research (IATBR), co-organized with Cinzia Cirillo., Windsor, UK, 07.23.2015
- talk&panel: “Transportation Capacity and Congestion Management” UIILabs City Digital Emerging Technology Showcase, Chicago, US, October 6th 2015
- talk: “Reported or calculated travel model inputs? Modelling errors in travel time in transport mode choices”, Seminar series, University of Illinois at Chicago, US, March 6th, 2015
- talk: “Dynamic vehicle ownership forecasting: a framework to model inter-temporal renewal decisions”, 13th Workshop on discrete choice models, TranspOR, EPFL, Switzerland, May 30, 2013
- talk: “Car demand in the future: enriching forecasting models with market dynamics, behavioural variables and policy evolution”. Research and innovation for transport systems of the future, Paristech, Ministère Recherche et Enseignement Supérieur, Paris, France, Nov. 14, 2012
- talk: “Modelling the purchase of alternative fuel vehicles: intangible determinants?”, Interdepartmental Research Center for the Economics of Institutions Seminar Series, Roma Tre, Italy, Feb 27, 2012
- talk: “Heterogeneous decision rules in discrete choice models”, 1st Workshop on Modelling behaviour: recent advances and future directions’, Institute for Transport Studies, Leeds, UK, Sep. 8, 2011
- talk: “Modelling heterogeneous decision rules in discrete choice models”, 7th Workshop on discrete choice models, TranspOR, EPFL Lausanne Switzerland, Aug. 25-27, 2011

### Conference Presentations

- P34** ‘The role of crowdsourcing mobility systems in urban resilience’, 3-5 June 2020, Actionable Science for Urban Sustainability, Virtual conference
- P33** ‘Empirical analysis of crowd-sourced freight deliveries’, July 16, 2018, International Conference on Travel Behaviour Research, Santa Barbara, US
- P32** ‘Prediction of Shipment Performance in a Crowd-sourced Delivery Platform’, July 16, 2018, International Conference on Travel Behaviour Research, Santa Barbara, US
- P31** ‘Crowdsourced Urban Package Delivery: modelling traveler Willingness to Work as Crowdshippers’, Transportation Research Board Annual conference, Washington, USA, Jan 8-12 2017
- P30** Modeling Behavior and Acceptance of Crowdshipping, 58th Transportation Research Forum, Chicago, April 20-21, 2017
- P29** Modeling the Acceptability of Crowdsourced Goods Deliveries, Session SA4: Behavioral Data and Demand Estimation, INFORMS Transportation and Logistics Society, First Triennial Conference, Chicago, Illinois, USA July 26-29, 2017
- P28** Shipping by the crowd: empirical analysis of operations and behavior, VRef Foundation Conference, Goteborg, Sweden, Oct 17 2016
- P27** Understanding Behavior and Motivations for Using Crowd-shipping, TRB 94th Annual Meeting, Jan 11-15, 2015, Washington DC & Session: 785 ‘Travel Demand Models R Us’
- P26** Modelling travel time perception in transport mode choices, TRB 94th Annual Meeting, Jan 11-15, 2015, Washington DC & Session: 785 ‘Travel Demand Models R Us’
- P24-25** Linking decision processing to indicators of real world perceptions in a latent variable latent class approach <sup>2<sup>nd</sup></sup> & Dynamic vehicle ownership forecasting, hEART Symposium, KTH, Stockholm, Sweden, September 4-6, 2013
- P23** Dynamic vehicle ownership forecasting: a framework to model inter-temporal renewal decisions, Swiss Transport Research Conference, Monte Verità, Switzerland, Apr. 24-26, 2013

- P22** Dynamic vehicle ownership forecasting, 1st European Symposium on Quantitative Methods in Transportation Systems, Lausanne, Switzerland, Sep. 4-7, 2012
- P20-21** Linking the decision process to underlying constructs in a latent variable latent class approach: first round & Heterogeneity in Urban Freight Policy Analysis: The Case of Own-Account Retailers and Transport Providers in Rome's LTZ 13th International Conference on Travel Behavior Research, Toronto, US, Jul. 16-17, 2012
- P19** Modelling alternative fuel vehicle purchases: a discrete choice experiment, Nectar Cluster-2 Workshop on Urban and Regional Transport: Regulation, Sustainability, E-Mobility, Feb. 10, 2012, Dresden, Germany
- P16-18** Revisiting reference point formation, gains-losses asymmetry and non-linear sensitivities: one size does not fit all! & Modelling heterogeneous decision rules in discrete choice models & It's not that I don't care, I just don't care very much: confounding between attribute non-attendance and taste heterogeneity Glasgow, UK, European Transport Conference, Oct. 10-12, 2011
- P15** Veicoli a carburanti alternativi: prospettive di mercato ed un'analisi sperimentale, Annual conference Italian society for industrial economists, Trieste, Italy, Sep. 23, 2011
- P14** Allowing for heterogeneous decision rules in discrete choice models: an approach and four case studies, 2nd International Choice Modelling Conference, Oulton, UK, Jul. 4-6 2011
- P13** Factors influencing alternative fuel vehicle purchase: a discrete choice experiment, SIET XIII annual conference, Messina, Italy, Jun. 16-17, 2011
- P12** Jointly Accounting for Departures from Compensatory Decision-Protocols and Joint Decision-Making (Doctoral student research seminar: P11-1936), Transportation Research Board 90th annual meeting, Washington DC, US, Jan. 23-27, 2011
- P11** talk: De gustibus est disputandum: Preference heterogeneity in a SP experiment on transit service quality, Nectar Cluster-2 workshop, Rome, Italy, Oct. 22-23, 2010
- P10** Linking response quality to survey engagement: a combined random scale and latent variable approach, European Transport Conference, Glasgow, UK, Oct. 11-13, 2010
- P8-9** Modelling multi-attribute reference dependence in a commuting experiment: does one size fit all? & Acceptability of freight policy innovation from a stakeholder perspective: Rome's LTZ, 12<sup>th</sup> World Conference on Transport Research, Lisbon, Portugal, Jul. 11-15, 2010
- P6-7** Modelling multi-attribute reference dependence in a commuting choice experiment: Does one size fit all? & Urban freight policy innovation for Rome's LTZ: a stakeholder perspective, SIET XII annual conference, Rome, Italy, Jun. 17-18, 2010
- P5** Urban Freight transport innovation for Rome's LTZ - decision making in a complex policy scenario, Nectar Cluster-3 meeting, Porto, Portugal, Nov. 22 2009
- P4** Urban Freight transport innovation for Rome's LTZ, CREI workshop, Rome, Italy, Nov. 4, 2009
- P3** La politica di tariffazione marginale delle strade, CIRIAF 8<sup>th</sup> annual meeting, Perugia, Italy, Apr. 4-5, 2008
- P2** Congestion policy and public acceptability in practice: Lessons from Stockholm on the role of choice, SIET IX annual conference, Napoli, Italy, Oct. 3-5 2007
- P1** Acceptance of road pricing between personal experience and political bias: The Stockholm trial, Kuhmo Nectar Conference and Summer School, Urbino, Italy, Jul. 9-11, 2007

## Editorial Activity

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### Journal Editorial Duties

- o Academic Editor for the **Journal of Advanced Transportation**

### Guest-editor of the Special Issues

- o Transportation System Analysis for Better Policy-Making, **Transportation** (with J. Ban and Y. Nie)
- o Emerging Urban Mobility Services: Characterization, Modeling and Application, **Transportation Research Part C: Emerging Technologies**, (with M. Nie, J. Lin))
- o Transforming mobility with sharing, connectivity and automation, **Transportation** (with Ipek Sener)
- o Measuring Service Quality and Local Public Transport Performance, **International Journal of Sustainable Transportation**, scheduled as Vol. 8(1), 2014, (with E. Marcucci), published online
- o Quality, regulation and environmental sustainability in public transport investment, **International Journal of Transport Economics**, Vol. 34(1), 2013 (with E. Marcucci)

## Teaching Experience

## Course development and teaching

- CEE201 **Engineering Possibilities, decision science in the age of smart technologies'**, [1 credit] Winter 2019 (38 students); Spring 2020 (30 students, capped), Northwestern, New Class.  
The goal of this CEE gateway class developed with Alumnae foundation support is to introduce students to the foundational principles of smart city technology and interventions. Students are trained in four areas a) theories of urban systems and planning, b) data, urban sensing and computational approaches, c) evaluation methods and governance, d) behavior of citizens and decision-makers. Instruction uses a mix of lectures and guest lectures, in-class exercises, and team work with solo and team assignments.
- CEE480-1 **Travel Demand Analysis & Forecasting**, [1 credit] Winter Q. 2015 (17 students); Winter Q. 2016 (12 students); Winter Q. 2017 (16 students); Winter 2019 (16 students), Northwestern.  
Class focuses on statistical, econometric, and behavioral choice model methods used to study and forecast travel demand. The course introduces theory of travel demand and transportation planning, along with practical tools and methods to model data and make decisions to improve transportation systems. Instruction is based on theoretical lectures coupled with computer lab practice lectures where students learn to handle real data and use statistical programming languages R and Biogeme. Students get extensive training and feedback in formulating, estimating and interpreting regression and discrete choice models to analyze and forecast mobility decisions.
- CEE473 **Survey methods, data and analysis**, [1 credit] Spring Q. 2015 (12 students); Spring Q. 2016 (6 students); Spring 2017 (6 students); Spring 2018 (6 students); Spring 2019 (4 students), Northwestern, New Class.  
The course focuses on the theories and scientific debates around the design, administration and analysis of various types of behavioral data. Topics include: experimental design; theories and techniques of sampling; methods and modes of survey implementation; types of information (revealed, stated or retrospective) collected; constructing psychological measurement scales for latent variable measurement; attitude and latent construct modelling; academic writing and scholarly communication. Students design their own survey step-by step, and analyze the data to shed light on their research question. Techniques of data-exploration, Exploratory/Confirmatory Factor modeling, construct validation, ANOVA is taught in hands-on sessions, using R software
- CEE517 **Graduate Seminar in Transportation Engineering**, [1 credit] Winter 2020; Fall-Winter-Spring 2019; F-W-S 2018; F-W-S 2017; F-W-S 2016; F-W-S 2015 (around 15 students), Northwestern.  
Since 2015 I plan and organize the graduate student seminar series in transportation with visiting scholars presenting on demand/behavior, optimization, policy, simulation and passenger/logistics operations. Since 2016 I increased the emphasis on students interacting with visiting scholars.

## Other Teaching Activities

- Northwestern **Single Lectures**, Since 2014 Contributed lectures to 479-0 'Transportation Systems Planning and Management (Joe Schofer) || 195-0 'Introduction to Civil and Environmental Engineering (David Corr) || GE 195-1: Engineering Dialog I (Leonard) || Data as art - Interdisciplinary course taught with the School of Art Institute of Chicago, SAIC || Responsible Conduct of Research' (RCR) Training, Northwestern.
- EPFL **Lecturer**, *Decision-aid methodologies in transportation [4ects]* (2013), EPFL - Switzerland.  
Taught 50% of MSc level class on demand travel demand modeling and application (Coordination and Teaching 6 lectures, Student examination)
- EPFL **Lecturer**, *Mathematical modeling of behavior [4ects]* (2012; 2013), EPFL - Switzerland.  
Taught 50% of MSc level class on discrete choice mathematical modelling and estimation of travel demand (Coordination and Teaching 5 lectures, Coordinate and teach laboratory sessions, Student examination)
- Roma Tre **Lecturer**, *Research and interview methodologies for applied research [3ects]*, Roma Tre University, Italy.  
Course design and 50% of teaching, co-taught with Eva Valeri

## Advising and Mentoring

### PhD Graduates, Sole Advisor

- o Aymeric Punel, 'Evaluating the Performance of a Crowdsourced Delivery System: Sender Behavior, Agent interaction and Network variables', graduated in spring 2019. Civil and Environmental Engineering Current position: Senior Data Scientist at the Boston Consulting Group
- o Alec Biehl, 'Scales, Segments, and Neighborhoods of Change: An Investigation of Active Mobility Adoption', graduated in spring 2019, Civil and Environmental Engineering. Current position: Postdoctoral Researcher - Oak Ridge National Laboratory

### PhD Advisees, as Sole Advisor

- o Elisa Borowski, dissertation working title: 'Resilient community assessment: behavioral, network and communication analysis of relocation and disaster preparation', Ph.D expected in 2022. Recognition: Awarded National Defense Science and Engineering Graduate fellowship
- o Jason Soria, dissertation working title: 'Mobility transitions with sharing, hailing and micro-transit: Policy guidance and community impacts', Ph.D expected in 2021. Recognition: Awarded US Department of Transportation Federal Highway Administration fellowship

- o Maher Said, dissertation working title: 'Shaping low carbon energy futures: understanding adoption of clean technology using novel methods and data sources', Ph.D expected in 2021. Recognition: Winner of Supply Chain Data Analytics Competition, Loyola 2020

### PhD Student Committee Member, NU

- o Vivien Rivera, Ph.D expected 2022: Supervisor: Packman
- o Jingyuan Bao, Ph.D expected 2020: Supervisor: Durango-Cohen
- o Fiorella Mete, 'Statistical methods for the long-term monitoring of bridge performance', Ph.D concluded 2018: Supervisor: Durango-Cohen/Corr
- o Lama Bou Mjahed, 'Cohort Effects and Technology Engagement in Connected User's Sustainable Activity and Travel Behavior', Ph.D concluded 2017, Supervisor: Mahmassani
- o John Miller, 'Smart Crowd-sourced Freight: Integrating System Optimum and User Equilibrium for the Time-Dependent Probabilistic Profitable Tour Problem', Ph.D concluded in 2017: Supervisor: Nie

### Postdoctoral mentoring

- o A. Ermagun (2018-2019)

### Student Supervision – Northwestern MA paper/theses

- o Manan Shah, NU Civil Engineering, MS Thesis 'Factors Impacting Use of Bikes and Bike-Sharing.', Fall Q. 2017
- o Mu-Huan Miles Chung, NU Civil Engineering, MS Thesis 'Stated Adoption of Autonomous Vehicles: A study of influential factors.', Fall Q. 2017
- o Yi Gu, NU Civil Engineering, MS Thesis 'Pedestrian Risky Crossing Behavior: An Application of the Theory of Planned Behavior.', Fall Q. 2017
- o Wenyang Gu, NU Civil Engineering, MS paper 'Attitudinal market segmentation for transit riders', Winter Q. 2017
- o Veronica Saeger, NU Mechanical Engineering, MS Thesis 'Understanding Customer Preference to Product Features in Engineering Design', Spring Q. 2016
- o Erik Jensen, NU Civil Engineering, MS paper 'Application of Edie's Definitions to Bicycle Traffic Flow', Spring Q. 2016
- o Hong Liang, NU Civil Engineering, MS paper 'US Transit Ridership Trends?', Spring Q. 2016
- o Tanus Nipastpong, NU Civil Engineering, MS paper 'Financial and Economic Analysis of High-Speed Rail', Spring Q. 2016
- o Siyi Liu, NU Civil Engineering, MS paper 'Positive Train Control on Metra?', Spring Q. 2016
- o Susheel Kumar Siram, NU Civil Engineering, MS paper 'Should we electrify our buses?', Winter Q. 2015
- o Ariane Bernard de Saint Affrique, NU Civil Engineering, MS paper 'Synthesis of Experience - BRT's implementation and success in developing countries', Spring Q. 2015
- o Kayla Spitzer, NU Civil Engineering, MS paper 'The Expansion of Heathrow Airport', Spring Q. 2015

### Student Supervision – Northwestern Undergraduate fellowships

- o Victor Limontitla, NU Civil Engineering, NUTC Greenbriar Fellow 'Social Effects of Social Distancing', Summer 2020
- o Taylor Miyamoto-Kim, NU Mechanical Engineering, NUTC Greenbriar Fellow 'Views on Autonomous and Alternative Delivery Solutions', Summer 2020
- o Garrett Lee, NU Industrial Engineering, 'Integrating Ridesharing and Rail Transit' Summer 2019

### Capstone examiner for Northwestern Master of Project Management (MPM)

- o Yaheng Wang, report 'A Risk Assessment Study of Railway Construction in China', Fall Q. 2016
- o Ehron Nygard, report 'Fighting the Unsustainable Growth Curve: Urban Sprawl in Minneapolis, MN, and Methods for Trend Reversal', Spring Q. 2016
- o Chun Jin, report 'Transforming an Underground Business Street into a Public Parking Lot in Harbin, China', 2015
- o Mengyang Zhang, report 2015 'The Application of Transit-Oriented Development in Mainland China', 2015

### Student Supervision – Master/Bachelor theses (EPFL)

- o Billal Mahoubi, EPFL Civil Engineering, 'Exploring approaches to model financial decisions', Autumn term 2013
- o Silvia Francesca Varotto, EPFL Civil Engineering 'Modelling travel time perception in transport mode choice for a university campus' with & University of Trieste, MA thesis (delivered dec. 2013), Autumn term 2013, Co-sup. with A. Glerum
- o Nicholas Alan Molyneaux, EPFL Mathematics, 'Movement patterns of pedestrians on platforms', BA thesis, Spring term 2013, Co-sup. with F. Hanseler

### Student Supervision – Semester Projects (EPFL)

- o Quentin Mazars-Simon, System and Com., 'Schedule-based estimation of pedestrian travel demand within a quasi-uncongested railway station', Autumn term 2013, Co-sup. with F. Hanseler
- o Billal Mahoubi, Civil Engineering, 'Modelling the demand for financial products', Autumn term 2013
- o Natalie Sauerwald, Mathematics, 'Modelling car ownership duration', Spring term 2013, Co-sup. with A. Glerum
- o Lea Kissling, Mathematics, 'Enhancement of Naville's Press Delivery Regulation Tool: An Exploratory Analysis', Spring term 2013, Co-sup. with E. Kazagli

- Areg Gevorgyan, Manag. Technology, 'Modelling the choice of vehicle in an extended framework', Autumn term 2012

## Academic Service

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### Department, School, and University Service

- Department of Civil and Environmental Engineering: Department curriculum renewal committee (2018-2019) || Strategic Planning Committee (2018-2019) || Space planning committee (2017) || Academic coordinator of the Northwestern Transportation Center academic seminar series (2015– ongoing) || Graduate Student Admissions (2015– ongoing)
- McCormick School of Engineering: CEE representative on Social Equity & Racial Justice Committee (2020– ongoing) || CEE representative on the Committee for adding a concentration in data science (2020–ongoing)
- Northwestern University: Finite Earth-Networking luncheon series (2018 – ongoing) || organizing committee for the Sustainable Urban Systems Workshop SUSPIRE at Center for Engineering Sustainability and Resilience (2019– ongoing) || SustainNU Transportation Group (2018-2019)

### Academic seminar coordination and planning

- Organizer of the Northwestern Transportation Center academic seminar series (2015-ongoing) [Link to webpage](#)

### Evaluator of Graduate student grants

- NUTC dissertation year fellowship committee (2016)
- External examiner for David Boyce Graduate Awards Competition at UIC (2016, 2017)

### Reviewer for Journals (n=51)

- Transportation (8)
- Transportation Research Part E: Logistics and Transportation Review (6)
- Journal of Choice Modeling (4)
- Transport Policy (4)
- Transportation Research Part B: Methodological (3)
- Transportation Research Part A: Policy and Practice (3)
- Journal of Transport Geography (3)
- European Transport (3)
- Transportation Science (2)
- International Journal of Sustainable Transportation (2)
- Transportmetrica A (2)
- Transportation Research Part C: Emerging Technologies (2)
- PLOS ONE (1)
- Networks and Spatial Economics (1)
- Transportation Research Part D: Transport and Environment (1)
- International Journal of Transport Economics (1)
- Research in Transportation Business & Management (1)
- European Journal of Transport and Infrastructure Research (1)
- Urban Studies Research (1)
- Italian Journal of Regional Economics (1)

### Reviewer for Conferences

- Transportation Research Board annual conference (TRB) – Review Coordinator 2015-2019
- International Choice Modelling Conference (ICMC)
- Symposium of the European Association of Research in Transport (hEART)
- International Symposium on Transportation and Traffic Theory (ISTTT)

### Evaluator of Research Grant Proposals

- National Science Foundation, Panel reviewer for Civil Infrastructure Systems, (CIS-Engineering), USA
- National Science Foundation, Ad-Hoc evaluator for Decision, Risk, and Management Sciences (DRMS), USA

### Grant preparation

- PI/CO-PI of proposals for the American Science Foundation (NSF, NSF:BIC, DRMS, CRISP), Department of Energy (ARPA-e), Department of Transportation, FHWA, NCFRP
- Co-author of EU 7th Framework Programme, EU COST proposal, & Swiss National Science Foundation (SNSF)
- Co-author of proposals for various calls of the Italian Ministry of Education, Universities and Research: "Research projects of significant national interest" (PRIN) and "Basic research investment fund" (FIRB)

- Author of numerous industrial partner collaboration proposals

## Scientific Conferences

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### **Organizer of the scientific conferences**

- Annual meeting of the Italian Society of Transport Economists, Rome, Italy, Jun. 17-18, 2010 (140 participants, organizing committee).
- Nectar Cluster 2 meeting on 'Quality, regulation and environmental sustainability in public transport', Rome, Italy, Oct. 22-25, 2010 (15 participants, local organizing committee).

### **Workshop organizer in scientific conferences**

- IATBR Annual International Association of Travel Behavior Research Workshop on Automation, Santa-Barbara 2018, co-organized with Yoram Shiftan.
- IATBR Annual International Association of Travel Behavior Research Workshop on Innovation Adoption Modeling, York 2015, co-organized with Cinzia Cirillo.

### **Member of the International Program Committee for the conferences**

- 1st European Symposium on Quantitative Methods in Transportation Systems (LATSIS), Lausanne, Switzerland, Sep. 4-8, 2012.

### **Chair in the conferences**

- Transportation Research Board (TRB), Presiding officer of lectern sessions in 2017, 2016, e.g. session 265 'Modeling the Demand for New Mobility Concepts and Services'
- International Choice Modelling Conference (ICMC), Chaired Session: I-C(3), Oulton, UK, Jul. 4, 2011.
- World Conference on Transport Research (WCTR), Chaired Session: D3.15 Travel Behaviour, Lisbon, Portugal, Jul. 15, 2010.

## Languages

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- Swedish, Fluent (mother tongue)
- English, Fluent
- Italian, Fluent
- French, Intermediate: A2/B1
- Greek, Elementary

April 12, 2021