Giacomo Dalla Chiara

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Education

2018	**Singapore University of Technology and Design (SUTD)**, Singapore PhD in Engineering Systems and Design, President Graduate Fellow Thesis: Commercial vehicles parking in congested urban areas. Supervisor: Prof. L. Cheah
2012	**Swiss Federal Institute of Technology (ETH)**, Zurich, Switzerland MSc in Statistics Thesis: Factor approach to forecasting with high-dimensional data. Supervisor: Prof. P. Bühlmann
2010	**Libera Università degli Studi Sociali Guido Carli (LUISS)**, Rome, Italy BSc in Economics and Business, Cum Laude Thesis: A monopolistic state in competitive markets. Supervisor: Prof. A. Renda

Professional Experience

2019-	**University of Washington**, Seattle, US Postdoctoral scholar at the Supply Chain Transportation and Logistics Center • Perform research aimed at designing and developing future delivery systems to facilitate transportation in urban areas through data analytics, optimization, and simulation • Write research proposals and grant applications • Communicate the lab research output to project sponsors, companies, media, and the public
2018-19	**Singapore University of Technology and Design**, Singapore Postdoctoral research fellow at the Sustainable Urban Mobility Research Lab • Collaborated with the United Postal Service (UPS) to evaluate the efficiency of delivering parcels in Singapore using electric cargo bikes • Developed simulation model and implemented in dashboard using R shiny link
2012-13	**ETH Zurich**, Switzerland Research assistant at the Chair of Law and Economics • Implemented text analysis methods to analyze historical records from the First World War • Tested algorithms to forecast a financial time series using high-dimensional data

Other Appointments

2017	**Massachusetts Institute of Technology**, Cambridge, US Visiting scholar at the Intelligent Transportation Systems Lab
2015-18	**Singapore-MIT Alliance for Research and Technology**, Singapore Visiting scholar at the Future Urban Mobility Lab
2012	**Tsinghua University**, Beijing, China Visiting scholar at the School of Economics and Management
2008	**Utrecht University**, Utrecht, The Netherlands Visiting student at the Utrecht School of Economics

Recent Publications

- **G. Dalla Chiara**, L. Cheah, C.L. Azevedo, M. Ben-Akiva (forthcoming, 2020). A model of commercial vehicle parking choice in congested urban areas. Transportation Science

- **G. Dalla Chiara**, A. Goodchild (forthcoming, 2020). Do commercial vehicles cruise for parking? Empirical evidence from Seattle. Transport Policy

- **G. Dalla Chiara**, A. Alho, C. Cheng, M. Ben-Akiva, L. Cheah (forthcoming, 2020). Exploring benefits of cargo-cycles versus trucks for urban parcel delivery under different demand scenarios. Transportation Research Records

- T. Sakai, A. Alho, B.K. Bhavathrathan; **G. Dalla Chiara**; R. Gopalakrishnan; P. Jing; T. Hyodo; L. Cheah; M. Ben-Akiva (forthcoming, 2020). SimMobility Freight: An Agent-Based Urban Freight Simulator for Evaluating Logistics Solutions. Transportation Research Part E

Selected Presentations

Gave 34 presentations in total since 2015.

- Invited speaker at the U.S. Federal Highway Administration (FHWA) Talking Freight webinar, 20 November 2019 link

- Invited speaker at the Institute of Transportation Engineers (ITE) Urban Goods Movement Standing Committee webinar, 4 June 2020 link

- Invited speaker at 2020 Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting panel on last-mile logistics optimization, 9 November 2020

Selected Projects

- **Improving ridehailing vehicle pick-ups/dropoffs operations**
  Collaborated with Uber and Lyft to study the impact of different passenger pick-up and dropoff policies in an urban areas. Methods used: logistic regression, discrete choice modelling, discrete event simulation.

- **Estimate commercial vehicle parking cruising times**
  Developed a method to estimate the inefficiencies generated by lack of available parking for commercial vehicles delivering in urban areas. This research has been recently accepted for publication in Transport Policy.

Service

- **Reviewer**: European Transport Research Review, Transportation Research Part A, Transportation Science, Transportation Research Record, Transportation Research Board, IEEE Intelligent Transportation Systems Conference

- **Guest editor**: Transportation Research Part A: Policy and Practice (Elsevier)

- **Scientific committee member**: Freight Master Plan update (Portland Bureau of Transportation), National Institute for Transportation and Communities, Milano Smart City Conference

Others

Coding	R, Python, Stata, Matlab, SQL
Languages	Italian (native), English (proficient), Spanish (intermediate), Mandarin Chinese (basic)
Teaching	SUTD: statistical computing with R, statistics and probability, game theory, MIT: discrete choice analysis