SÉBASTIEN MARTIN

Kellogg School of Management at Northwestern University 2211 Campus Drive Evanston, IL 60208

Phone +1 (510)-229-2758
Email sebastien.martin@kellogg.northwestern.edu
Website http://sebastienmartin.info

ACADEMIC APPOINTMENTS

2020-Present	**Kellogg School of Management**, Northwestern University, Evanston, IL, USA Donald P. Jacobs Scholar (Assistant Professor), Operations
2019-2020	**Lyft Inc.**, New York City, NY, USA Post-doctoral Fellow, Marketplace Labs

RESEARCH INTERESTS

Interface of **optimization**, **analytics**, **transportation** and **public policy.**

EDUCATION

2014-2019	**Ph.D. in Operations Research,** Massachusetts Institute of Technology, Cambridge, MA
2011 - 2015	**B.Sc. / M.Sc. in Applied Mathematics**, Ecole Polytechnique, Paris, France

PUBLISHED AND SUBMITTED WORK

Z. Lian, S. Martin, G. van Ryzin (2021) Labor Cost Free-Riding in the Gig Economy. **Major revision, Management Science**

I. Lobel, S. Martin, H. Song (2021) Employees, Contractors, or Hybrid: An Operational Perspective. **R&R, Management Science**

I. Lobel, S. Martin (2021) Detours in Shared Rides. **Major revision, Management Science**

F. Castro, J. Gao, S. Martin (2021) Autonomous Vehicles in Ride-Hailing and the Threat of Spatial Inequalities. **Under review**

V. Krishnan, R. Iglesias, S. Martin, V. Pattabhiraman, S. Wang, G. van Ryzin (2021) Solving the ride-sharing productivity paradox: Priority dispatch and optimal priority sets. **Under review**

S. Martin, S. Taylor, J. Yan (2021) Trading Flexibility for adoption: Dynamic versus static walking in ridesharing. **Under review**

D. Bertsimas, A. Delarue, W. Eger, J. Hanlon, S. Martin (2020) Bus Routing Optimization Helps Boston Public Schools Design Better Policies. **INFORMS Journal of Applied Analytics** 50(1):37-49

D. Bertsimas, A. Delarue, S. Martin (2020), From School Buses to Start Times: Driving Policy with Optimization. ***Proceedings of the National Academy of Science (PNAS)***.

D. Bertsimas, P. Jaillet, S. Martin (2019), Online Vehicle Routing: The Edge of Optimization in Large-Scale Applications. ***Operations Research***.

D. Bertsimas, A. Delarue, P. Jaillet, S. Martin (2019), Travel Time Estimation in the Age of Big Data. ***Operations Research***.

J. Reilly, S. Martin, M. Payer, A. Bayen (2016), Creating complex congestion patterns via multi-objective optimal freeway traffic control with application to cyber-security. ***Transportation Research Part B***, 91, 366-382.

PROFESSIONAL EXPERIENCE

2020-Present	**Lyft, Inc.,** San Francisco, CA. *Research Consultant*
2016	**Google,** Mountain View, CA. *Software Engineering Intern*

SELECTED MEDIA COVERAGE

2018	**The Boston Globe,** *The Equity Machine,* Sept 20, 2018.
2017	**The Wall Street Journal***, How Do You Fix a School-Bus Problem? Call MIT,* Aug 11, 2017.

SELECTED HONORS

2021	**Wagner Award Finalist**
2019	**George B. Dantzig Dissertation Award**
	TSL Dissertation Prize
	Franz Edelman Award finalist