SÉBASTIEN MARTIN

FEBRUARY 2023 – MY WEBSITE CONTAINS MORE INFORMATION AND IS ALWAYS UP TO DATE

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
Assistant Professor of 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

The year indicates the latest update.

I. Lobel, S. Martin, H. Song (2023) Employees versus Contractors: An Operational Perspective. **Under review, MSOM**

F. Castro, J. Gao, S. Martin (2023) Autonomous Vehicles in Ride-Hailing and the Threat of Spatial Inequalities. **Under review, Management Science**

S. Chopra, P. Mishra, K. Smilowitz (2023) Mobility-on-Demand Meets Shuttles on the Same Mile. **Under review, MSOM**

A. Delarue, Z. Lian, S. Martin (2022) Algorithmic Precision and Human Decision: A Study of Interactive Optimization for School Schedules. **Under review, Management Science**

I. Lobel, S. Martin (2022) Detours in Shared Rides. **Minor revision, Management Science**

Z. Lian, S. Martin, G. van Ryzin (2022) Labor Cost Free-Riding in the Gig Economy. **Major revision, Management Science**

S. Martin, S. Taylor, J. Yan (2022) Trading Flexibility for adoption: Dynamic versus static walking in ridesharing. **Revise & Resubmit, Management Science**

B.Han, H. Lee, S. Martin (2022) Real-Time Rideshare Driver Supply Values using Online Reinforcement Learning. **KDD. -- 2023 Franz Edelman Finalist.**

V. Krishnan, R. Iglesias, S. Martin, V. Pattabhiraman, S. Wang, G. van Ryzin (2022) Solving the ride-sharing productivity paradox: Priority dispatch and optimal priority sets. **INFORMS Journal on Applied Analytics -- Finalist, Daniel H. Wagner Prize.**

D. Bertsimas, A. Delarue, W. Eger, J. Hanlon, S. Martin (2020) Bus Routing Optimization Helps Boston Public Schools Design Better Policies. **INFORMS Journal on Applied Analytics**

D. Bertsimas, A. Delarue, S. Martin (2020), Optimizing schools' start time and bus routes. ***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***

PROFESSIONAL EXPERIENCE

2019 - 2020	**Lyft, Inc.,** San Francisco, CA. *Postdoctoral Fellow*
2016	**Google,** Mountain View, CA. *Software Engineering Intern*

SELECTED HONORS

2023	**Franz Edelman Award laureate (with Lyft)**
2021	**Wagner Award Finalist**

2019	**George B. Dantzig Dissertation Award (First Place)**
	TSL Dissertation Prize
	Franz Edelman Award laureate (with Boston Public School)