

# SÉBASTIEN MARTIN

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## ACADEMIC APPOINTMENTS

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

## RESEARCH INTERESTS

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

## EDUCATION

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- 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

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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. **Revise and Resubmit, Management Science**

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

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

F. Castro, J. Gao, S. Martin (2022) Supply Prioritization in Hybrid Market Places. **Under review (Management Science)**

V. Krishnan, R. Iglesias, S. Martin, V. Patabhraman, S. Wang, G. van Ryzin (2021) Solving the ride-sharing productivity paradox: Priority dispatch and optimal priority sets. **Finalist, Wagner competition (under review, INFORMS Journal on Applied Analytics)**

B.Han, H. Lee, S. Martin (2022) Real-Time Rideshare Driver Supply Values using Online Reinforcement Learning.

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

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2020-Present | Lyft, Inc., San Francisco, CA. *Research Consultant*

2016 | Google, Mountain View, CA. *Software Engineering Intern*

## SELECTED MEDIA COVERAGE

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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

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2021 | Wagner Award Finalist

**2019**

**George B. Dantzig Dissertation Award**

**TSL Dissertation Prize**

**Franz Edelman Award finalist**