

Mika Sumida

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ACADEMIC APPOINTMENTS	Marshall School of Business, University of Southern California Assistant Professor of Data Sciences and Operations	2020-present
EDUCATION	Cornell University Ph.D., Operations Research Advisor: Huseyin Topaloglu Dissertation: <i>New Revenue Management Models for Online Retailing</i> M.S., Operations Research	2020 2019
	Yale University B.A., Mathematics	2013
PUBLICATIONS	<p>My research focuses on developing efficient, provably-good policies for revenue management and resource allocation problems. I am particularly interested in applications in online marketplaces, delivery systems, and the sharing economy.</p> <p>Revenue-Utility Tradeoff in Assortment Optimization under the Multinomial Logit Model with Totally Unimodular Constraints. M. Sumida, G. Gallego, P. Rusmevichientong, H. Topaloglu, and J. Davis. <i>Management Science</i>, forthcoming.</p> <p>An Approximation Algorithm for Network Revenue Management under Nonstationary Arrivals. Y. Ma, P. Rusmevichientong, M. Sumida, and H. Topaloglu. <i>Operations Research</i>, 68:3, 655-964, 2020.</p> <p>Dynamic Assortment Optimization for Reusable Products with Random Usage Durations. P. Rusmevichientong, M. Sumida, and H. Topaloglu. <i>Management Science</i>, 66:7, 2801-3294, 2020.</p> <p>A Constant Factor Approximation Algorithm for Capacity Allocation over a Single Flight Leg with Fare-Locking. M. Sumida and H. Topaloglu. <i>INFORMS Journal on Computing</i>, 31:1, 83-99, 2019.</p>	
HONORS AND AWARDS	NSF Graduate Research Fellowship Cornell Graduate Fellowship	2017-2020 2015-2016
TEACHING EXPERIENCE	Teaching Assistant <i>Cornell University, SC Johnson School of Management</i> <ul style="list-style-type: none">NCCY 5080: Operations Management (MBA core course)	Fall 2019

Cornell University, College of Engineering

- ORIE 5132: Service Systems and Online Markets Spring 2018, 2019
- ORIE 5530: Modeling Under Uncertainty Fall 2017, 2018
- CS 4820: Introduction to Analysis of Algorithms Spring 2017
- ORIE 4741: Learning with Big Messy Data Fall 2016

Yale University

- CPSC 202: Mathematical Tools for Computer Science Fall 2011, 2012
- AMTH 110: Introduction to Quantitative Thinking Fall 2010

INDUSTRY
EXPERIENCE

Analytics Operations Engineering, Inc., Analyst Sept. 2013 - July 2015
(acquired by McKinsey & Co. in Sept. 2016)

Applied advanced quantitative methods to solve operations problems for clients. Job involved data analysis, operations modeling, software development, and client management. Clients included a major clothing retailer, faucet manufacturer, and a coffeehouse chain.

PRESENTATIONS

2019

- *INFORMS Annual Meeting*, Seattle, WA
- *Young Researcher's Workshop*, Ithaca, NY
- *YinzOR Conference*, Pittsburgh, PA
- *MSOM Conference*, Singapore
- *INFORMS Revenue Management and Pricing Conference*, Palo Alto, CA
- *POMS Conference*, Washington, DC

2018

- *INFORMS Annual Meeting*, Phoenix, AZ
- *INFORMS Revenue Management and Pricing Conference*, Toronto, OT

2017

- *INFORMS Annual Meeting*, Houston, TX