

CONTACT
INFORMATION apaul@olin.edu

ACADEMIC
APPOINTMENTS **Assistant Professor of Applied Mathematics and Computer Science**
Franklin W. Olin College of Engineering, 2019–Current.

Postdoctoral Research Associate
Data Science Initiative, Brown University, 2017–2019.
Advised By: Pedro Felzenszwalb.

EDUCATION **Cornell University**, Ithaca, NY.
Ph.D. Operations Research and Information Engineering, August 2017.
Advised By: David P. Williamson

Harvey Mudd College, Claremont, CA.
B.S. Mathematics with High Distinction, May 2012.

PUBLICATIONS **Alice Paul** and David Williamson. *Easy Capacitated Facility Location Problems, with Connections to Lot-Sizing*, forthcoming in Operations Research Letters, 2020.

Alice Paul, Daniel Freund, Aaron Ferber, David Shmoys, and David Williamson. *Budgeted Prize-Collecting Traveling Salesman and Minimum Spanning Tree Problems*, Mathematics of Operations Research, 2019.

Amariah Becker and **Alice Paul**. *A Framework for Vehicle Routing Approximation Algorithms in Trees*, Algorithms and Data Structures Symposium, 2019.

Jacob Feldman, **Alice Paul**, and Huseyin Topaloglu. *Technical Note: Assortment Optimization with Small Consideration Sets*, Operations Research, 2019.

Jacob Feldman and **Alice Paul**. *Relating the Approximability of the Fixed Cost and Space Constrained Assortment Problems*, Production and Operations Management, 2018.

Alice Paul, Daniel Freund, Aaron Ferber, David Shmoys, and David Williamson. *Prize-Collecting Traveling Salesman with a Budget Constraint*, European Symposium on Algorithms, 2017.

Alice Paul, Jacob Feldman, and James Mario Davis. *Assortment Optimization and Pricing under a Nonparametric Tree Choice Model*, Manufacturing and Service Operations Management, 2017.

Alice Paul, Matthias Poloczek, and David P. Williamson. *Simple Approximation Algorithms for Balanced MAX 2SAT*, Algorithmica, 2017.

Alice Paul, Matthias Poloczek, and David P. Williamson. *Simple Approximation Algorithms for Balanced MAX 2SAT*, Latin American Theoretical Informatics Symposium, 2016.

Alice Paul and Nicholas Pippenger. *A Census of Vertices by Generations in Regular Tessellations of the Plane*, Electronic Journal of Combinatorics, 2011.

BOOK CHAPTERS Daniel Freund, Ashkan Norouzi-Fard, **Alice Paul**, Shane Henderson and David B. Shmoys. *Data-Driven Rebalancing Methods for Bike-Share Systems*, in E. Christofides et al. (ed.), *Analytics for the Sharing Economy: Mathematics, Engineering, and Business Perspectives*, 2020.

PREPRINTS **Alice Paul** and Susan Martonosi. *Operations Research*, in Nathan Carter (ed.), *Data Science for Mathematicians*, 2020.

INVITED PRESENTATIONS	<p>“Iterative Algorithms for Semidefinite Programming,” American Mathematical Society Eastern Sectional Meeting, forthcoming 2020.</p> <p>“Prize-Collecting TSP with a Budget Constraint,” International Symposium on Math Programming, 2018.</p> <p>“Data-Driven Optimization for Bike-Share Systems,” Brown University, 2017.</p> <p>“Prize-Collecting TSP with a Budget Constraint,” European Symposium on Algorithms, 2017.</p> <p>“Assortment Optimization for Choosy Customers,” INFORMS, 2016.</p> <p>“Assortment Optimization for Choosy Customers,” INFORMS Revenue Management and Pricing Conference, 2016.</p> <p>“Simple Approximation Algorithms for Balanced MAX 2SAT,” LATIN, 2016.</p> <p>“Revenue Management under a Nonparametric Ranking-Based Choice Model,” INFORMS, 2015.</p> <p>“Detecting Covert Members of Terrorist Networks,” Young Women in Discrete Math, 2013.</p> <p>“Detecting Covert Members of Terrorist Networks,” INFORMS, 2012.</p>		
INSTRUCTOR	<p>Modeling and Simulation of the Physical World, Olin College, Fall 2019.</p> <p>Probability, Statistics, and Machine Learning, Brown University, Spring 2019.</p> <p>Statistics is Everywhere, Brown University, Fall 2019.</p> <p>Probability, Statistics, and Machine Learning, Brown University, Spring 2018.</p> <p>Engineering Applications of Operations Research, Cornell University, Fall 2016.</p> <p>Optimization II, Cornell University, Summer 2015.</p>		
HONORS AND AWARDS	<table> <tr> <td data-bbox="354 835 917 934"> NDSEG Fellow INFORMS Undergraduate Research Prize 2012 ORIE Teaching Assistant of the Year 2013-2014 </td> <td data-bbox="971 835 1497 934"> Sage Diversity Fellowship Sherri Koenig Stuewer Graduate Fellowship Harvey S. Mudd Scholar </td> </tr> </table>	NDSEG Fellow INFORMS Undergraduate Research Prize 2012 ORIE Teaching Assistant of the Year 2013-2014	Sage Diversity Fellowship Sherri Koenig Stuewer Graduate Fellowship Harvey S. Mudd Scholar
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REVIEWER	<p>Operations Research, Algorithmica, Operations Research Letters, Mathematical Programming, SIAM Journal of Discrete Mathematics, Probability in the Engineering and Informational Sciences.</p>		