

CONTACT  
INFORMATION      [apaul@olin.edu](mailto:apaul@olin.edu)  
(973)-615-4398

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. Chrisotomi et al. (ed.), *Analytics for the Sharing Economy: Mathematics, Engineering, and Business Perspectives*, 2020.

INVITED  
PRESENTATIONS      “Prize-Collecting TSP with a Budget Constraint,” International Symposium on Math Programming, 2018.  
“Data-Driven Optimization for Bike-Share Systems,” Brown University, 2017.  
“Prize-Collecting TSP with a Budget Constraint,” European Symposium on Algorithms, 2017.

“Assortment Optimization for Choosy Customers,” INFORMS, 2016.  
 “Assortment Optimization for Choosy Customers,” INFORMS Revenue Management and Pricing Conference, 2016.  
 “Simple Approximation Algorithms for Balanced MAX 2SAT,” LATIN, 2016.  
 “Revenue Management under a Nonparametric Ranking-Based Choice Model,” INFORMS, 2015.  
 “Detecting Covert Members of Terrorist Networks,” Young Women in Discrete Math, 2013.  
 “Detecting Covert Members of Terrorist Networks,” INFORMS, 2012.

#### INSTRUCTOR

**Modeling and Simulation of the Physical World**, Olin College, Fall 2019.  
**Probability, Statistics, and Machine Learning**, Brown University, Spring 2019.  
**Statistics is Everywhere**, Brown University, Fall 2019.  
**Probability, Statistics, and Machine Learning**, Brown University, Spring 2018.  
**Engineering Applications of Operations Research**, Cornell University, Fall 2016.  
**Optimization II**, Cornell University, Summer 2015.

#### HONORS AND AWARDS

NDSEG Fellow	Sage Diversity Fellowship
INFORMS Undergraduate Research Prize 2012	Sherri Koenig Stuewer Graduate Fellowship
ORIE Teaching Assistant of the Year 2013-2014	Harvey S. Mudd Scholar

#### REVIEWER

Operations Research, Algorithmica, Operations Research Letters, Mathematical Programming, SIAM Journal of Discrete Mathematics, Probability in the Engineering and Informational Sciences.