

CONTACT INFORMATION	alice_paul@brown.edu (973)-615-4398	
ACADEMIC APPOINTMENTS	Assistant Professor of Applied Mathematics and Computer Science , Olin College. Starting Fall 2019.	
	Postdoctoral Research Associate , Data Science Initiative, Brown University. Advised By: Pedro Felzenszwalb. 2017-2019.	
EDUCATION	Cornell University , Ithaca, NY. Ph.D. Operations Research and Information Engineering, August 2017. GPA 4.0/4.33. Advised By: David P. Williamson	
	Harvey Mudd College , Claremont, CA. B.S. Mathematics with High Distinction, May 2012. GPA 3.7/4.0.	
HONORS AND AWARDS	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
PUBLICATIONS	Jacob Feldman, Alice Paul , and Huseyin Topaloglu. Technical Note: Assortment Optimization with Small Consideration Sets. Forthcoming in <i>Operations Research</i> , 2018.	
	Alice Paul , Daniel Freund, Aaron Ferber, David Shmoys, and David Williamson. Prize-Collecting Traveling Salesman with a Budget Constraint. <i>European Symposium on Algorithms</i> , 2017.	
	Alice Paul , Jacob Feldman, and James Mario Davis. Assortment Optimization and Pricing under a Nonparametric Tree Choice Model. <i>Manufacturing and Service Operations Management</i> , 2017.	
	Alice Paul , Matthias Poloczek, and David P. Williamson. Simple Approximation Algorithms for Balanced MAX 2SAT. <i>Algorithmica</i> , 2017.	
	Alice Paul , Matthias Poloczek, and David P. Williamson. Simple Approximation Algorithms for Balanced MAX 2SAT. <i>Latin American Theoretical Informatics Symposium</i> , 2016.	
	Alice Paul and Nicholas Pippenger. A Census of Vertices by Generations in Regular Tessellations of the Plane. <i>Electronic Journal of Combinatorics</i> , 2011.	
UNDER REVISION	Alice Paul , Daniel Freund, Aaron Ferber, David Shmoys, and David Williamson. Budgeted Prize-Collecting Traveling Salesman and Minimum Spanning Tree Problems. Under major revision for <i>Mathematics of Operations Research</i> .	
	Jacob Feldman and Alice Paul , Relating the Approximability of the Fixed Cost and Space Constrained Assortment Problems. Under major revision for <i>Production and Operations Management</i> .	
SUBMITTED	Amariah Becker and Alice Paul . Minimum Makespan Vehicle Routing in Trees.	
	Daniel Freund, Ashkan Norouzi-Fard, Alice Paul , Shane Henderson and David B. Shmoys. Data-Driven Rebalancing Methods for Bike-Share Systems.	
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.

TEACHING
EXPERIENCE
(*UPCOMING)

***Co-Instructor, Statistics is Everywhere**

First-year seminar course introducing students to various applications of statistics. Brown University, Fall 2019.

***Co-Instructor, Probability, Statistics, and Machine Learning: Advanced Methods**

Statistics-based data science course for masters students. Brown University, Spring 2019.

Co-Instructor, Probability, Statistics, and Machine Learning: Advanced Methods

First version of a statistics-based data science course for masters students. Brown University, Spring 2018.

Instructor, Engineering Applications of Operations Research

Intro to operations research course with 70 undergraduate students. Cornell University, Fall 2016.

Instructor, Optimization II

Summer course with 8 undergraduate students and 1 masters student. Cornell University, Summer 2015.

Teaching Assistant, Optimization II

Led two recitations with around 50 students combined. Cornell University, Spring 2014.

OTHER EXPERIENCE

GE Summer Intern

Summer 2014

Complex Systems Engineering Group

Worked with the oil and gas business departments to manage inventory levels and improve efficiency of the supply chain. Created online data visualization tools for business leaders to see current and past inventory levels and turnover.

Animating Computational Biology Algorithms

Summer 2011

Professor Alexander Schleip, Rutgers DIMACS REU

Developed animations for bioinformatics algorithms including a naive prefix tree construction, naive suffix tree construction, and Ukkonens algorithm. Animations are now used in a Rutgers computational biology course.

Logic Circuit Sketch Recognition

Summer 2010

Professor Christine Alvarado, HMC CS Department

Developed sketch recognition software designed to provide users with an intuitive system for sketching, editing, recognizing, and simulating logic circuits in a tablet environment. Specifically developed Hover Widgets, a tool that enables editing and correction by recognizing hover space activity of the stylus. Software is used in an introductory computer science course.

SERVICE ACTIVITIES

Brown Data Science Colloquium Organizer (Fall 2017 - Fall 2018)

ORIE Graduate Association President (Spring 2014 - Spring 2016)

Undergraduate mentor with CUMentor (Fall 2012 - Spring 2015)

Workshop Leader, Expanding Your Horizons (April 2013 and April 2014)

REVIEWER

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

REFERENCES

Available upon request.