

## EDUCATION

- Cornell University**, Ithaca, NY Aug 2014  
M.S., Ph.D. in Operations Research  
Dissertation: *A Quadratic Cone Relaxation-Based Algorithm for Linear Programming.*  
Advised by James Renegar
- Harvey Mudd College**, Claremont, CA May 2008  
B.S. in Mathematics  
Senior Thesis: *Sperner's Lemma and Kakutani's Fixed Point Theorem*  
Advised by Francis Su

## EMPLOYMENT

- New York University**, New York, NY Sept 2014 - present  
*Clinical Assistant Professor*, Department of Mathematics, Courant Institute of Mathematical Sciences
- New York University**, New York, NY Sept 2018 - present  
*Quantitative Reasoning Coordinator*, The College Core Curriculum, College of Arts and Sciences
- Mathematical Sciences Research Institute**, Berkeley, CA June-July 2015  
*Postdoctoral Mentor*, MSRI Undergraduate Program
- Microsoft Research India**, Bangalore, India June-August 2008  
*Summer Research Intern*

## PUBLICATIONS

- K. Mazur, M. Sondjaja, M. Wright, C. Yarnall, *Approval Voting in Product Societies*, Amer. Math. Monthly 125 (2018), No. 1, 29-43
- B. Kuture, O. Leong, C. Loa, M. Sondjaja, F.E. Su, *Proving Tucker's Lemma with a Volume Argument*, Algebraic and Geometric Methods in Discrete Mathematics, 223-230, Contemp. Math., 685, Amer. Math. Soc., Providence, RI, 2017.
- R. De Veaux, M. Sondjaja, et. al., *Curriculum Guidelines for Undergraduate Programs in Data Science*, Ann. Rev. Stat. Appl. 2017, 4:2.1-2.16

## INVITED PRESENTATIONS

- Hofstra University Mathematics Seminar April 2016  
*A New Proof of Tucker's Lemma Using a Volume Argument*
- Centro de Investigación en Matemáticas, Guanajuato, Mexico Feb 2016  
*Tucker's Lemma: An Application in Consensus-Halving and a New Proof Based on a Volume Argument*
- Special Session on Conic Optimization, 22nd International Symposium of Mathematical Programming July 2015  
*A Polynomial-Time Affine-Scaling Method for Semidefinite and Hyperbolic Programming*

## CONTRIBUTED TALKS

- MSRI Connections for Women Workshop: Geometric and Topological Combinatorics Aug 2017  
*Lightning Talk*
- SIAM Conference on Optimization May 2014  
*A Quadratic Code Relaxation-Based Algorithm for Linear Programming*
- Joint Mathematics Meetings Jan 2014  
*A Quadratic Code Relaxation-Based Algorithm for Linear Programming*

UNDERGRADUATE STUDENT ADVISING

- Dean's Undergraduate Research , New York University** Sept 2018 - present  
Derrick Kim (New York University)
- Summer Undergraduate Research Experience, New York University** June - Aug 2018  
Yunqiu Rachel Guo (New York University)
- MSRI Undergraduate Program, Mathematical Sciences Research Institute** June - July 2015  
Beauttie Kuture (Pomona College), Oscar Leong (Williams College), Christopher Loa (Univ. of Tennessee)  
Gabriel Andrade (U. Mass. Amherst), Andres Rodriguez Rey (San Francisco State University), Alberto Ruiz Sandoval (University of Puerto Rico)
- Undergraduate Independent Project, New York University** Sept 2015 - May 2016  
Yipeng Han (New York University)
- Mathematical Modeling Workshops, New York University** Sept 2016 - present  
*Run weekly workshops for NYU undergraduates to provide hands-on mathematical modeling experiences and to prepare them for mathematical modeling competitions (including MCM/ICM and SCUDEM)*

GRADUATE STUDENT ADVISING

- Master's Thesis, Department of Mathematics, New York University** Dec 2015 - May 2016  
Xiyuan Ge

TEACHING

- New York University, Department of Mathematics** 2014 - present  
Calculus 1-3; Math for Economics 1; Linear Algebra; Discrete Mathematics; Algebra & Calculus; Quantitative Reasoning: Great Ideas in Mathematics; Quantitative Reasoning: Probability, Statistics, and Decision Making; Quantitative Reasoning: From Data to Discovery; Independent Study: Introduction to Linear and Convex Optimization; Independent Study: Introduction to Numerical Optimization
- NYU Center for Mathematical Talent, Summer Program** Aug 2017, 2018  
The Mathematics of Web Search
- Cornell University, School of Operations Research and Info. Engineering** 2010, 2013  
Optimization 2 (ORIE 3310/5310/5311)
- Cornell University, Prison Education Program** 2013  
Algebra

AWARDS, FELLOWSHIPS, AND GRANTS

- NYU FAS Office of Educational Technology** Micro Grant Aug 2016 - present
- MAA Project NExT** Fellow 2014-2015
- Cornell University School of ORIE** Outstanding Teaching Assistant Award 2009-'10, 2010-'11

PROFESSIONAL ACTIVITIES AND SERVICE

- Foundations of Scientific Inquiry Steering Committee**, The College Core Curriculum, College of Arts and Sciences, New York University 2016 - present  
*Member*
- Mathematical Association of America**, Metro New York Section May 2018 - present  
*Vice Chair of High Schools*
- Metro NExT - New Experiences in Teaching - Program**, MAA Metro NY May 2015 - present  
*Coordinator and Workshop Organizer*
- Women in Science Scholars**, New York University 2018 - present  
*Member of Selection and Steering Committees*
- Undergraduate Research Conference**, New York University May 2015/'17/'18  
*Judge*
- Undergraduate Poster Sessions**, Joint Mathematics Meetings Jan 2015  
*Judge*

OUTREACH

- Girls' STEM Summer Program**, New York University July - Aug 2017  
*Research Mentor*
- Expanding Your Horizons**, Cornell University April 2013, 2014  
*Workshop Leader*