

Michael Wang (Last Updated 11/15/18)

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Education

- **Georgia Institute of Technology** Atlanta, Georgia
B.S. Industrial Engineering and Computer Science 2015 - 2019
 - GPA: 3.97/4.0

Publications

- Kolb, I., Franzesi, G. T., **Wang, M.**, Kodandaramaiah, S. B., Forest, C. R., Boyden, E. S., & Singer, A. C. Evidence for long-timescale patterns of synaptic inputs in CA1 of awake behaving mice. *Journal of Neuroscience* (2018)
- **Wang, M.**, Gupta, S. Fairness in the Face of Uncertainty. *NIPS Workshop on Ethical, Social and Governance Issues in AI* (2018)

Work Experience

- **Two Sigma Investments** New York, NY
Software Engineering Intern May 2018 - Aug 2018
 - Platform Engineering Team in Two Sigma Insurance Quantified
 - Built a system for automated anomaly detection of system logs for security purposes
 - Tools: AWS services, Terraform, and Python
- **Dropbox** San Francisco, CA
Software Engineering Intern May 2017 - Aug 2017
 - Marketing Platform Team
 - Built service for creating dynamic marketing campaigns which respond to user actions
 - Tools: Python, React, and TypeScript

Current Projects

- **Grady Memorial Hospital Infusion Center Optimization**
with Ayush Agrawal, Vivek Jajoo, Kendall McRae, Nihal Shah, Rohil Shah, Mauricio Taborga, and Kexin Zhang
 - Scheduling to increase patient throughput under limited resources and uncertainty
- **Learning over Permutahedrons**
with Daniel Ulch and Swati Gupta
 - Optimizing runtime of the direction-finding subproblem of Frank-Wolfe using approximate sorting

Teaching Experience

- **ISYE 4133: Advanced Optimization**

Atlanta, GA

Teaching Assistant

Aug 2018 - Present

- Covers theory and algorithms for linear, integer, and some convex optimization
- Graded homework and exams, held office hours

- **CS 2200: Systems and Networks**

Atlanta, GA

Teaching Assistant

Aug 2017 - May 2018

- Covers introductory computer systems topics such as caching, multiprocessing, and computer architecture
- Wrote and graded homework, projects, and exams, held recitation, and held office hours

Selected Coursework

- Industrial and Systems Engineering

- 2027 Probability
- 2028 Statistics
- 3044 Simulation
- 3232 Stochastics
- 3833 Optimization
- 4031 Regression and Forecasting
- 4133 Advanced Optimization
- 4301 Supply Chain Economics
- 4803 Online Learning and Decision Making
- 6662 Discrete Optimization
- 6663 Nonlinear Optimization (Spring 2019)

- Mathematics

- 1554 Linear Algebra
- 2106 Foundation of Proofs
- 2603 Discrete Math
- 3012 Applied Combinatorics
- 3406 Second Course in Linear Algebra
- 4317 Real Analysis

- Computer Science

- 1332 Data Structures
- 2200 Systems and Networks
- 3511 Design of Algorithms
- 4210 Advanced Operating Systems
- 4400 Database Systems
- 4602 Automated Algorithm Design
- 4290 Advanced Microarchitecture (Spring 2019)

Awards, Grants & Honours

ISYE Outstanding Junior Award	2018
COSYNE Undergraduate Travel Grant	2017
President's Undergraduate Research Award	2017
GT College of Computing Appathon First Place	2016