PhD Positions in Computer Science, University of Rochester, Fall 2024

Dr. Jiaming Liang (https://jiaming-liang.github.io/) is recruiting graduate students in the PhD program of Computer Science at the University of Rochester starting Fall 2024. Dr. Liang's group develops the algorithmic foundation of data science. We design, analyze, and implement provably efficient and reliable algorithms for solving a general class of problems in data science. The research scope broadly includes algorithms for optimization, sampling, and games. We are particularly interested in topics in operations research, machine learning, and economics, such as

- Nonlinear optimization
- Stochastic programming
- High-dimensional sampling
- Differential privacy
- Market equilibrium and design

Applications are encouraged from students in Computer Science, Applied Math, Statistics, Operations Research, Industrial Engineering, Electrical Engineering, or related areas. Successful applicants should have strong background in applied math, statistics, and computation, and will receive full tuition coverage, competitive stipend, and graduate student employee benefits. They will also have access to modern research facilities, such as high-performance computing clusters, and professional development support including annual travel fund for conferences and workshops. Interested students can find more information at https://www.cs.rochester.edu/graduate/phd-program.html.

If you are interested, please email Dr. Liang (jiaming.liang@rochester.edu) with "PhD Application" in the subject line, together with a package consisting of the following files:

1. A cover letter that highlights your educational background, research experience and interests, and career goals (1 page only)
2. CV
3. Transcript
4. Contact information for 3 references (including names, affiliations, and emails)
5. Optional samples of academic writings (e.g., published papers or preprints, thesis, reading notes, project reports)

About Dr. Jiaming Liang

Dr. Jiaming Liang is an assistant professor in the Goergen Institute for Data Science and the department of Computer Science at the University of Rochester. He was a postdoctoral researcher in Computer Science at Yale University. Dr. Liang obtained PhD in Operations Research and MS in Computational Science and Engineering from Georgia Institute of Technology. He received his bachelor's degree in Ocean Engineering and Applied Math from Shanghai Jiao Tong University. Dr. Liang has publications in top journals and conferences, such as SIAM Journal on Optimization, Mathematics of Operations Research, Conference on Learning Theory, American Control Conference, and Conference on Decision and Control.

About CS Department, University of Rochester, and City of Rochester

The Department of Computer Science is a research-oriented department with a distinguished history of contributions in systems, theory, artificial intelligence, and HCI. Over the past decade, a third of its PhD graduates have won tenure-track faculty positions, and its alumni include leaders at major research laboratories such as Google, Microsoft, and IBM.

The University of Rochester is a private research university in Rochester, New York. It enrolls approximately 6,600 undergraduates and 5,500 graduate students. Rochester alumni, faculty, and affiliates include recipients of 13 Nobel Prizes, 13 Pulitzer Prizes, 45 Grammy Awards, and 20 Guggenheim Fellowships. According to U.S. News & World Report, the University of Rochester is ranked No. 36 out of 443 US institutions in 2023.

Rochester is known for its high quality of life and cultural institutions: Affordable housing in a dozen or so unique neighborhoods. Top public schools. A backdrop that includes the Finger Lakes and Lake Ontario. Quick flights to New York City, Atlanta, Chicago, Boston, Charlotte, Philadelphia, and Washington, D.C. Top-notch health care and hospitals. A thriving, high-tech economy fueled by start-ups. A rich music and arts scene. And so much more.