Xing Gao
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xgao27.github.io

EDUCATION

University of Illinois Chicago — Chicago, IL
PhD in Mathematics (Mathematical Computer Science) — Aug 2020 to date
Advisors: Lev Reyzin and Yu Cheng (Brown University)

Georgia Institute of Technology — Atlanta, GA
MS in Computer Science — Aug 2017 – Aug 2020

Georgia Institute of Technology — Atlanta, GA
MS in Electrical Engineering — Aug 2013 – Dec 2014

Georgia Institute of Technology — Atlanta, GA
BS in Electrical Engineering — Aug 2010 – May 2013

WORK EXPERIENCE

University of Illinois Chicago — Chicago, IL
Graduate Research Assistant — Aug 2021 – Aug 2022, Jan 2023 to date
Graduate Teaching Assistant – MCS 401 Algorithms — Aug 2022 – Dec 2022

Accenture Federal Services — Washington, DC
UI lead at Informed Visibility – Mail Tracking — March 2016 – Jan 2018
JavaScript/UI developer at Informed Visibility – Service Performance Measurement — Aug 2015 – Feb 2016

Marlabs Inc. — Piscataway, NJ
Programmer Analyst Intern — March 2015 – July 2015

Georgia Institute of Technology — Atlanta, GA
Graduate Teaching Assistant – ECE 2026 — Aug 2013 – May 2014

Computational Perception Lab, Georgia Institute of Technology — Atlanta, GA
Undergraduate Research Assistant – AutoRally Autonomous Car Project — May 2013 – July 2013

PUBLICATIONS

Conference Papers

- Xing Gao and Lev Reyzin. Non-center-based clustering under bilu-linial stability. In *2025 IEEE International Symposium on Information Theory (ISIT)*. IEEE, 2025
- Xing Gao and Yu Cheng. Robust matrix sensing in the semi-random model. *Advances in Neural Information Processing Systems*, 36, 2024
- Xing Gao, Thomas Maranzatto, and Lev Reyzin. A unified analysis of dynamic interactive learning. In *2023 59th Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, pages 1–8. IEEE, 2023
- Xing Gao and Lev Reyzin. An interactive search game with two agents. In *2022 58th Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, pages 1–8. IEEE, 2022

Manuscripts

- Idan Attias, Xing Gao, and Lev Reyzin. Learning-augmented algorithms for boolean satisfiability. *Submitted.*

- Xing Gao, Binhao Chen, and Yu Cheng. Semi-random noisy and one-bit matrix completion with nonconvex primal-dual framework. *Submitted.*
- Xing Gao, Lev Reyzin, and Shuo Wu. Margin-based boosting for partial interpretability. *Submitted.*

PRESENTATIONS

- Conference on Neural Information Processing Systems. New Orleans, LA. December 2023.
  Poster presentation: Robust matrix sensing in the semi-random model.
- Allerton Conference. Monticello, IL. September 2022.
  Presentation: An interactive search game with two agents.

TECHNICAL SKILLS

Programming languages: Python, JavaScript, Java