

Liu, Zhi He/Him

3rd year PhD student at Cornell Tech

EDUCATION

Tsinghua University, Beijing, China — 2016 - 2020

Bachelor of Engineering in Industrial Engineering, with Minor in Applied Statistics

Cornell University / Cornell Tech, New York, USA — 2020 - present

PhD student in Operations Research (GPA: 4.0/4.0); Advisor: Prof. Nikhil Garg

PUBLICATIONS

Liu, Zhi, and Nikhil Garg. "Test-optional policies: Overcoming strategic behavior and informational gaps." *Equity and Access in Algorithms, Mechanisms, and Optimization*. 2021. 1-13.

Under the setting of test-optional admissions and with strategic applicants, we study sufficient conditions for the admission policy to be non-discriminatory towards students who truly lack access to tests due to factors such as the pandemic, which contain randomization and certification.

Liu, Zhi, and Nikhil Garg. "Equity in Resident Crowdsourcing: Measuring Under-reporting without Ground Truth Data." *Working paper* (2022). Conference version appeared in ACM EC'22.

We propose a powerful and general approach to measure residents' reporting behavior in crowdsourcing settings, e.g., 311 systems across North American cities, by using only the reports and no proxies for ground-truth conditions. Applied to data from NYC and Chicago, our method reveals substantial reporting heterogeneity across space, demographics, and time.

MISCELLANEOUS

Teaching experience

Teaching assistant for ORIE 5355 / INFO 5370 at Cornell Tech, Fall 2021

Head teaching assistant for ORIE 5355 at Cornell Tech, Fall 2022

Fellowships

ORIE Field Fellowship, Fall 2020

Cornell University Fellowship, Spring 2021

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