

# YICHI ZHANG

+1(734) 800-6032 ◇ yichiz@umich.edu ◇ Website: <https://yichiz97.github.io/>

4352 North Quad, 510 State St., Ann Arbor, MI 48109, U.S.A.

## RESEARCH INTERESTS

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I'm interested in the intersection between computer science and economics, in particular, information elicitation and aggregation, mechanism design, and human-AI collaborations. My research aims to develop practical and application-specific mechanisms that incentivize human agents and human-AI teams to provide high-quality information.

## POSITIONS

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**Rutgers University** Sep 2024 - Present

- DIMACS Postdoc in Economics and Computation
- Hosts: David Pennock and Lirong Xia

## EDUCATION

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**University of Michigan, Ann Arbor (Umich)** Sep 2019 - Present

- Ph.D. in School of Information
- Advisor: Grant Schoenebeck
- Thesis: Incentivizing Effort and Honesty for High-quality Information

**Shanghai Jiao Tong University (SJTU)** Aug 2015 - Jun 2019

- B.S. in Electronic Science and Engineering
- Advisors: Xinbing Wang and Luoyi Fu

## WORKING EXPERIENCES

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**University of Michigan, School of Information** Sep 2019 - Present  
Research Assistant, Useful Theory Innovation Lab

**UCLA, Department of Computer Science** Jul 2018 - Sep 2018  
Research Intern (The CSST program), working with Mario Gerla

**YITUTech** Feb 2019 - May 2019  
Algorithm Engineer Intern

## PAPERS IN SUBMISSIONS

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**Understanding When Peer Grades (Definitely) Outperform Instructor Grades**  
Noah Burrell, **Yichi Zhang** and Grant Schoenebeck

**Conference Design with Strategic Authors**  
**Yichi Zhang**, Behzad Nabawi and Grant Schoenebeck

## PUBLICATIONS

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### Eliciting Informative Text Evaluations with Large Language Models

Yuxuan Lu, Shengwei Xu, **Yichi Zhang**, Yuqing Kong and Grant Schoenebeck *In Proceedings of the 25th ACM Conference on Economics and Computation* (EC 2024)

[\[https://arxiv.org/abs/2405.15077\]](https://arxiv.org/abs/2405.15077)

### Spot Check Equivalence: an Interpretable Metric for Information Elicitation Mechanisms

Shengwei Xu, **Yichi Zhang**, Paul Resnick and Grant Schoenebeck

*In Proceedings of the 33rd Annual World Wide Web Conference* (WWW 2024)

[\[https://arxiv.org/abs/2402.13567\]](https://arxiv.org/abs/2402.13567)

(Oral presentation)

### Eliciting Honest Information From Authors Using Sequential Review

**Yichi Zhang**, Grant Schoenebeck and Weijie Su

*In Proceedings of the 38th Annual AAAI Conference on Artificial Intelligence* (AAAI 2024)

[\[https://arxiv.org/abs/2311.14619\]](https://arxiv.org/abs/2311.14619)

### Multi-task Peer Prediction Under Task-Dependent Strategies

**Yichi Zhang** and Grant Schoenebeck

*In Proceedings of the 32nd Annual World Wide Web Conference* (WWW 2023)

[\[https://dl.acm.org/doi/abs/10.1145/3543507.3583292\]](https://dl.acm.org/doi/abs/10.1145/3543507.3583292)

### High-Effort Crowds: Limited Liability Via Tournaments

**Yichi Zhang** and Grant Schoenebeck

*In Proceedings of the 32nd Annual World Wide Web Conference* (WWW 2023)

[\[https://dl.acm.org/doi/abs/10.1145/3543507.3583334\]](https://dl.acm.org/doi/abs/10.1145/3543507.3583334)

### A System-Level Analysis of Conference Peer Review

**Yichi Zhang**, Fang-Yi Yu, Grant Schoenebeck and David Kempe

*In Proceedings of the 23rd ACM Conference on Economics and Computation* (EC 2022)

[\[https://arxiv.org/abs/2303.09020\]](https://arxiv.org/abs/2303.09020)

### Information Elicitation From Rowdy Crowds

Grant Schoenebeck, Fang-Yi Yu and **Yichi Zhang** (alphabetically ranked)

*In Proceedings of the 30th Annual World Wide Web Conference* (WWW 2021)

[\[https://dl.acm.org/doi/abs/10.1145/3442381.3449840\]](https://dl.acm.org/doi/abs/10.1145/3442381.3449840)

## POSTERS

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### Eliciting Effort And Truth-telling From Parties of (No) Interest

- *International Conference on Computational Social Science (2024)*
- *International Conference on Science of Science And Innovation (2024)*
- *ACM Conference on Economics and Computation (2023)*

### Multi-task Peer Prediction Under Task-Dependent Strategies

- *ACM Conference on Economics and Computation (2023)*

### A System-Level Analysis of Conference Peer Review

- *International Conference on Computational Social Science (2024)*
- *International Conference on Science of Science And Innovation (2024)*
- *ACM Conference on Economics and Computation (2022)*
- *U-M Asian American Faculty & Student Accomplishments Symposium (2022)*

## High-Effort Crowds: Limited Liability Via Tournaments

- *ACM Conference on Economics and Computation (2022)*

## Information Elicitation From Rowdy Crowds

- *DIMACS Workshop on Forecasting (2021)*
- *ACM Conference on Economics and Computation (2021)*

## INVITED TALKS

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### High-Effort Crowds: Limited Liability Via Tournaments

- Rutgers University, the DIMACS Workshop on Forecasting October 2024

### Eliciting Honest Information From Authors Using Sequential Review

- Harvard University, EconCS seminar January 2024

### Improving Conference Review Via Mechanism Design

- Renmin University of China, Gaoling School of Artificial Intelligence August 2023
- Peking University, CFCS seminar July 2023
- University of Michigan, DSCSS seminar April 2023
- University of Pennsylvania, Wharton Statistics and Data Science March 2023
- Drexel University, Computer Science Department March 2023

## TEACHING

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### Teaching assistant (GSI), Umich

**Winter 2022**

*Courses:* Big Data Analysis (SI 699)

*Instructor:* Misha Teplitskiy

### Teaching assistant (GSI), Umich

**Fall 2021**

*Course:* Deep Learning (SIADS 642)

*Instructor:* Paramveer Dhillon

*Course:* Network Analysis (SIADS 642)

*Instructor:* Daniel Romero

## AWARDS

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- ICSSI Travel Award. 2024
- Rackham Conference Travel Grant, University of Michigan. 2023, 2024
- The Web Conference Student Scholarship. 2021
- Nominee for the Rackham International Student Fellowship, UMSI. 2021
- Outstanding Graduate of Shanghai Jiao Tong University. 2019
- EIC Education Scholarship (top 5%). 2018
- Samsung Scholarship (top 3%). 2017

## MENTORSHIP

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- Shengwei Xu (Junior PhD Student at Michigan)
- Yuxuan Lu (Junior PhD Student at Peking University)

- David Gamba (Junior PhD Student at Michigan)
- Sanzeed Anwar (Junior PhD Student at Michigan)
- Behzad Nabawi (Undergrad at Sharif University of Technology)
- Yuhan Cao (Undergrad at ShanghaiTech University)

## SERVICE

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### Reviewer/PC member:

- The Annual Conference on Neural Information Processing Systems (**NeurIPS**): 2024
- The Web Conference (**WWW**): 2024, 2023, 2022
- The ACM Conference on Economics and Computation (**EC**): 2023, 2022
- Conference on Web and Internet Economics (**WINE**): 2024, 2023
- International Conference on Computational Social Science (**IC2S2**): 2024

### Organizer:

- The 1st Annual [Workshop on Incentives in Academia](#), jointly organized with EC 2024.