

## Liang “Charles” Lyu

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## Education

**Massachusetts Institute of Technology**, Cambridge, MA 2021 – 2027 (expected)  
Ph.D. Student – Laboratory for Information & Decision Systems (LIDS), Department of EECS  
Advisors: Prof. Asu Ozdaglar and Prof. Dan Huttenlocher

**Duke University**, Durham, NC December 2020  
 Bachelor of Science – Computer Science and Mathematics GPA: 3.99 / 4.0

## Research Statement

I am broadly interested in the societal impacts of algorithms. My recent work, both theoretical and empirical, focuses on two key areas. First, I study how algorithmic tools such as generative AI impact human behavior. Second, I analyze online platforms and markets, particularly interactions between platforms, users, creators and content. On both ends, I am interested in strategies to mitigate the potential harms of algorithms.

## Publications

1. [“Wikipedia Contributions in the Wake of ChatGPT.”](#)
  - **Liang Lyu**, James Siderius, Hannah Li, Daron Acemoglu, Daniel Huttenlocher, and Asu Ozdaglar.
  - In *Proceedings of the International World Wide Web Conference 2025 (WWW 2025)*.
2. [“MisinfoEval: Generative AI in the Era of ‘Alternative Facts.’”](#)
  - Saadia Gabriel, **Liang Lyu**, James Siderius, Marzyeh Ghassemi, Jacob Andreas, and Asu Ozdaglar.
  - In *Proceedings of the 2024 conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*.
3. [“Matching of Users and Creators in Two-Sided Markets with Departures.”](#)
  - Daniel Huttenlocher, Hannah Li, **Liang Lyu**, Asuman Ozdaglar, and James Siderius.
  - **ArXiv preprint** (2023). To be submitted to *Operations Research* in the future.
4. [“Centrality with Diversity.”](#)
  - **Liang Lyu**, Brandon Fain, Kamesh Munagala, and Kangning Wang.
  - In *Proceedings of the 14th ACM International Conference on Web Search and Data Mining (WSDM 2021)*. 644-652.
5. [“Proportionally Fair Clustering.”](#)
  - Xingyu Chen, Brandon Fain, **Liang Lyu**, and Kamesh Munagala.
  - In *Proceedings of the 36th International Conference on Machine Learning (ICML 2019)*. 1032-1041.

## Other Projects

1. “Misinformation Online to Offline: A Twitter Field Study.”
  - With Daron Acemoglu, Adam Berinsky, Asuman Ozdaglar, and James Siderius.
2. “An Experiment on Algorithmic Ranking: User Behavior, Platform Incentives, and Policy.”
  - With Daniel Huttenlocher, Asuman Ozdaglar, and James Siderius.

## Presentations

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“Wikipedia Contributions in the Wake of ChatGPT.”

- Tenth Marketplace Innovation Workshop (MIW 2025)
- International World Wide Web Conference (WWW) 2025 (Poster Presentation)

“Matching of Users and Creators in Two-Sided Markets with Departures.”

(Previously appeared as: “Dynamic Matching of Users and Creators on Social Media Platforms.”)

- INFORMS Annual Meeting 2024 & 2023
- Eighth Marketplace Innovation Workshop (MIW 2023)

“An Experiment on Algorithmic Ranking: User Behavior, Platform Incentives, and Policy.”

- INFORMS Annual Meeting 2022

“Centrality with Diversity.”

- 14th ACM International Conference on Web Search and Data Mining (WSDM 2021)

## Teaching Experience

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Teaching Assistant, Massachusetts Institute of Technology

*Fall 2024*

- TA for 6.1210: Introduction to Algorithms

Undergraduate Teaching Assistant, Duke University

*Spring 2018 – Fall 2020*

- UTA for 4 Computer Science courses over 6 semesters
- Head UTA for CompSci 201: Data Structures & Algorithms (Fall 2018 – Fall 2020)

## Honors & Awards

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Ernst A. Guillemin SM Thesis Award in Electrical Engineering

*2024*

MathWorks Engineering Fellowship

*2023 – 2024*

David S. Y. Wong (1962) and Harold Wong Fellowship

*2021 – 2022*

Honorable Mention, CRA Outstanding Undergraduate Researchers

*2020*

Dean’s List, Duke University

*Fall 2017 – Fall 2019*

- Dean’s List with Distinction

*Fall 2017 – Spring 2019*

International Collegiate Programming Contest (ICPC)

*2017 – 2021*

- Participated in ICPC World Finals 2020
- North America Championship: 19<sup>th</sup> (2020), 33<sup>rd</sup> (2021)
- Mid-Atlantic Regionals: 4<sup>th</sup> (2017), 4<sup>th</sup> (2018), 2<sup>nd</sup> (2019), 5<sup>th</sup> (2020)