Janet Jhih-Yi **Hsieh**

GRADUATE RESEARCHER

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Education

Carnegie Mellon University   *Pittsburgh, PA, USA*
MASTER'S IN COMPUTER SCIENCE   *2023-2024*
- Advisors: Nihar B. Shah and Aditi Raghunathan

Carnegie Mellon University   *Pittsburgh, PA, USA*
B.S. IN COMPUTER SCIENCE   *2019 - 2023*
- Minors in Machine Learning and Robotics
- University Honors, School of Computer Science College Honors
- Honors thesis advisors: Virginia Smith and Tian Li

Publications

PEER-REVIEWED CONFERENCES

Vulnerability of Text-Matching in ML/AI Conference Reviewer Assignments to Collusions
> **Jhih-Yi Hsieh**, Aditi Raghunathan, Nihar B. Shah
> USENIX Security 2025
> website(paper pdf, video, slides available), poster research artifacts

Mathematical Justification of Hard Negative Mining via Isometric Approximation Theorem
> Albert Xu, **Jhih-Yi Hsieh**, Bhaskar Vundurthy, Nithya Kemp, Eliana Cohen, Lu Li, Howie Choset
> ICLR 2024
> pdf, poster

POSTERS AND REPORTS

On Tradeoffs Between Fairness, Robustness, and Privacy Through Tilted Losses
> **Jhih-Yi Hsieh**, Advised by: Tian Li, Virginia Smith
> CMU SCS Undergraduate Thesis 2023, *Sigma Xi Poster Competition 3rd place*
> pdf, poster

Presentations

Vulnerability of Text-Matching in ML/AI Conference Reviewer Assignments to Collusions
- USENIX Security 2025 (3-minute presentation)
- CODEML Workshop at ICML (poster)
- 10th International Congress on Peer Review and Scientific Publication (poster)
- NSF AI-SDM Workshop on Human-AI Complementarity for Decision Making (poster)

On Tradeoffs Between Fairness, Robustness, and Privacy Through Tilted Losses
- Meeting of the Minds Undergraduate Research Symposium 2023 (thesis presentation)

Service

2025	**Asian Conference on Machine Learning (ACML) 2025**, Session Volunteer	*Taipei, TW*
2025	*alt*-**FAccT 2025**, Paper Session Student Volunteer	*New York, NY, USA*
2023	**Women@SCS TechNights for girls**, Volunteer Lead Instructor	*Pittsburgh, PA, USA*

Industry Work Experience

Syllo — *2024-2025*
Software Engineer — *New York, NY, USA*

- Worked in a small team at a high-growth startup building AI-enabled litigation workspace.
- Used data-driven methods to identify wasteful microservice resource usage and implemented cost-saving designs to save 80% of cloud compute costs.
- Helped build our products such as large-scale AI document review and information retrieval across millions of documents.
- Managed private cloud platforms and microservices using industry-standard cluster management and infrastructure-as-code tools.

Lyft — *Summer 2022*
Machine Learning Engineering Intern — *New York, NY, USA*

- Developed and productionized a large-scale Machine Learning solution for rider arrival time predictions.
- Implemented internal tools using PySpark to allow data scientists and ML engineers to perform data cleaning as well as train and validate their ML models on historical rides from Lyft's 20 million users.

Google — *Summer 2021*
Software Test Engineering Intern — *Remote (Taipei, Taiwan)*

- Built active learning solutions for diagnosing flakiness (inconsistent results) in software tests.
- Built a prototype of transformer-based classifier fine-tuned to diagnose flakiness from test logs.