Lily Chen

Research Interests

Human-centered AI, Multimodal AI, AI for Health, Signal Processing, and Statistics.

Education

09/24-05/25   **MEng in Electrical Engineering and Computer Science**, *MIT*.
Thesis Advisor: Paul Liang
Thesis: Grounding Time Series in Language: Interpretable Reasoning with Large Language Models
GPA: **5.0/5.0**

09/21-05/25   **BS in Mathematics, Electrical Engineering and Computer Science**, *MIT*.
GPA: **4.9/5.0**

Research Experience

09/24-Present   **Multisensory Intelligence Group**, *PI: Paul Liang*.
○ Developed a method to ground time series in language for interpretable reasoning with LLMs

05/23-Present   **University of Texas at Austin NLP Group**, *PIs: Junyi Jessy Li and Byron Wallace*.
○ Co-led projects on biomedical text summarization and medical fact-checking

Publications

Decide less, communicate more: On the construct validity of end-to-end fact-checking in medicine.
Sebastian Joseph, **Lily Chen***, Barry Wei, Michael Mackert, Iain J. Marshall, Paul Pu Liang, Ramez Kouzy, Byron C. Wallace, Junyi Jessy Li.*
arXiv preprint. [link]

FACTPICO: Factuality Evaluation for Plain Language Summarization of Medical Evidence.
Sebastian Joseph, **Lily Chen***, Jan Trienes, Hannah Louisa Göke, Monika Coers, Wei Xu, Byron C Wallace, Junyi Jessy Li.*
Association for Computational Linguistics (ACL), 2024. [link]

Analyzing Gender Accuracy and Gender Quality in Multilingual Machine Translation with Large Language Models.
Sarah Zhang, **Lily Chen***, William Zhang.*
Widening Natural Language Processing (WiNLP) Workshop at EMNLP, 2023. [link]

Industry Experience

06/22-08/22   **DRW Holdings, LLC**, *Quantitative Trading Intern*, Chicago, IL.
○ Completed quantitative research project of Bayesian Skew Fitter for crypto options

01/22-02/22   **Hudson River Trading**, *Crypto Tech Intern*, New York City.
○ Researched DeFi technologies and helped build DEX (Decentralized Exchange) aggregator

Selected Awards

For Doctoral Studies

2025   DOE CSGF Fellowship (Math/CS Track) – full tuition and $45,000 stipend for 4 years
2025   Wireless History Foundation Scholarship – $7,500

| 2023 | GFSD PhD Fellowship – full tuition and $20,000 stipend for 6 years (declined) |

For Master's

| 2024 | AAUW Selected Professions Fellowship – $20,000 |
| 2023 | ASQ Ellis R Ott Scholarship – $7,500 |

For Bachelor's

2024	MIT Prize for Open Data – $2,500
2024	Two Sigma Undergraduate Scholarship – $15,000
2023-2024	NSF CRA-WP DREU Program (Mentored by Junyi Jessy Li) – $7,000
2023	Zonta International Women in STEM Scholarship – $5,000
2021	Coca Cola Scholarship – $20,000 (150 recipients/99,403 applicants)

Academic Service

Spring 2023	Teaching Assistant for Mathematics for Computer Science, MIT.
Spring 2023	MIT PRIMES Circle Mathematics Mentor.
Spring 2023	MIT Math Learning Center Tutor.

Skills

Languages	English (fluent), Mandarin Chinese (advanced), Spanish (intermediate)
Programming	Python, C, Java
Software	PyTorch, NumPy, pandas, Hugging Face, seaborn, LaTeX