

Research Interests

AI for Science, Multisensory AI, Human-AI Systems, Factuality in AI, and Information Retrieval.

Education

09/24-05/25 **MEng in Electrical Engineering and Computer Science, MIT.**
(Expected) Thesis Advisor: Paul Pu Liang

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

Research Experience

09/24-Present **Multisensory Intelligence Group, PI: Paul Pu Liang.**

- Lead for **an unified language for sensors**: signal-processing-theory-inspired dictionary for signals from diverse domains. Developing expert benchmark and sensor foundation model for diverse tasks
- Created demo for sensor physical activity AI assistant for MIT Media Lab Members Week [\[video\]](#)

05/23-Present **University of Texas at Austin NLP Group, PIs: Junyi Jessie Li and Byron Wallace.**

- Co-lead for **medical claim checking with multi-document evidence retrieval and synthesis**: benchmark and system to verify medical claims from Reddit with medical evidence from PubMed
- Co-led **factuality evaluation of plain language summarization of medical evidence**: benchmark and automatic evaluation metric for factual correctness of LLMs' summaries of RCT abstracts

05/23-08/23 **Martin Rinard Lab.**

- Led **mechanistic interpretability of CodeGen models trained on the Karel programming language**: study of attention visualization patterns between Karel rules and program state [\[example\]](#)

Publications

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 Jessie 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
- Researched and implemented proprietary options trading strategies and shadowed desks

01/22-02/22 **Hudson River Trading, Crypto Tech Intern, New York City.**

- Built an optimal routing algorithm for pathfinding between crypto liquidity pools
- Researched DeFi technologies and helped build DEX (Decentralized Exchange) aggregator

Selected Awards

For Doctoral Studies

2023 **GFSD PhD Fellowship – full tuition and \$20,000 stipend for 6 years**

For Master's

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

For Bachelor's

- 2024 Two Sigma Undergraduate Scholarship – \$15,000
- 2023-2024 NSF CRA-WP DREU Program (Mentored by Junyi Jessy Li) –\$7,000
- 2022-2024 Live Más Scholarship –\$10,000
- 2023 Cognizant Trust & Safety Scholarship –\$10,000
- 2023 Raytheon Technologies Scholarship –\$10,000 (3 recipients/1000+ applicants)
- 2023 NAVISITE Next Stemminist Scholarship – \$10,000
- 2023 Hedy Lamarr Achievement Award –\$7,500
- 2023 Cadence Diversity in Technology Scholarship –\$5,000 (28 recipients/300+ applicants)
- 2023 Nutanix Advancing Women in Technology Award –\$5,000
- 2023 NSPE Auxiliary Legacy Scholarship – \$5,000
- 2023 Zonta International Women in STEM Scholarship –\$5,000
- 2023 Interface Systems Tech for Good Scholarship –\$5,000 (2 recipients/500+ applicants)
- 2023 ISSAEF Scholarship –\$3,500
- 2023 Prysmian Women in STEM Scholarship –\$2,500
- 2023 SBB Research Group Scholarship –\$2,500
- 2022 Malwarebytes Scholarship – \$10,000
- 2022 FS-ISAC Scholarship – \$10,000
- 2022 SIA Women in Security Forum Scholarship – \$10,000
- 2022 Ridgeline International Scholarship – \$5,000
- 2022 Society of Women Engineers Scholarship –\$5,000
- 2022 VMware Achievement Scholarship –\$10,000
- 2021 Coca Cola Scholarship – \$20,000 (150 recipients/99,403 applicants)

Activities

- 09/22-05/23 MIT Society of Women Engineers, Board of Technology.
- 09/22-05/23 MIT Women in EECS, Mentor.

Academic Service

- Spring 2023 18.062: Mathematics for Computer Science, Teaching Assistant, MIT.
- Spring 2023 MIT PRIMES Circle Mathematics Mentor.
- Fall 2022 Grader for AI + Society, Mathematics for Computer Science, and Calculus, MIT.

Skills

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