

Research Interests

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

Education

09/24-06/25 **MEng in Electrical Engineering and Computer Science, MIT.**
(Expected) Thesis Advisor: Paul Pu Liang

09/21-06/25 **BS in Mathematics, Electrical Engineering and Computer Science, MIT.**
(Expected) GPA: **4.9/5.0**

Research Experience

08/24-Present **Multisensory Intelligence Group, PI: Paul Pu Liang.**

- Grounding large language models with sensor modalities, mentoring one undergraduate researcher
- Led demo creation for sensor physical activity AI assistant for MIT Media Lab Members Week [\[video\]](#)
- Collected real-time Inertial measurement unit (IMU) data for six physical activities from smartwatch

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

- Co-lead for **social media medical claim checking with multi-document RCT abstract retrieval**
 - Working with six medical experts on annotation pipeline design and refinement
 - Designed and evaluated various retrieval strategies with state-of-the-art open-sourced embedding models to retrieve top-10 relevant randomized controlled trial (RCT) abstracts from PubMed
- Co-led **factuality evaluation of plain language summarization of medical evidence**
 - Published at ACL 2024, presented as a poster
 - Created a set of plain language summaries from LLMs, analyzed the results of traditional and LLM-based factual consistency metrics and studied the correlations against expert evaluations

06/22-08/22 **Martin Rinard Lab.**

- Analyzed mechanistic interpretability of CodeGen models trained on Karel language
- Created tool for attention visualizations to study patterns of Karel rules to 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 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
- Researched and implemented proprietary options trading strategies, 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, 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 –\$7,000

2022-2024 Live Más Scholarship –\$10,000

2023 Cognizant Trust & Safety Scholarship –\$10,000

2023 Raytheon Technologies Scholarship –\$10,000

2023 NAVISITE Next Stemminist Scholarship – \$10,000

2023 Hedy Lamarr Achievement Award –\$7,500

2023 Cadence Diversity in Technology Scholarship –\$5,000

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

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

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 (fluent), Spanish (intermediate)

Programming Python, C, Java

Software PyTorch, NumPy, pandas, Hugging Face, seaborn, L^AT_EX