

## 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, Pls: Junyi Jessy Li and Byron Wallace.**  
◦ Co-led projects on biomedical text summarization and medical fact-checking

## 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
- 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
- 2022-2025 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 ISC(2) Undergraduate Scholarship – \$3,000
- 2022 MIT Chevron Prize – \$2,000
- 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 member.
- 09/22-05/23 MIT Women in EECS Mentor.

## 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,  $\LaTeX$