Stella Li

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Research Interests

Natural Language Processing, Structured (social & clinical) Reasoning, Multilingual NLP, Human-Centered NLP

Education

University of Washington *Sep. 2023 – Current*
Ph.D. in Computer Science and Engineering
- Advisor: Yulia Tsvetkov

Johns Hopkins University *Sep. 2022 – May 2023*
M.S. in Computer Science and Engineering
- Advisors: Philipp Koehn & Kenton Murray
- Thesis: Learning from Gibberish: Code-Mixing Data Augmentation for Sentiment Analysis
- Cumulative GPA: 4.0/4.0

Johns Hopkins University *Sep. 2018 – Dec 2022*
B.S. in Applied Mathematics and Statistics
- Additional Majors: Computer Science, Cognitive Science (linguistics focus); Minor: Mathematics
- Cumulative GPA: 3.99/4.0, Major GPA: 4.0/4.0

Select Publications

MediQ: Question-Asking LLMs and a Benchmark for Reliable Interactive Clinical Reasoning.
Shuyue Stella Li, Vidhisha Balachandran, Shangbin Feng, Emma Pierson, Pang Wei Koh, Yulia Tsvetkov. *In Proceedings of Neurips 2024.*

Conformal Reasoning: Uncertainty Estimation in Interactive Environments.
Eric Frankel*, **Shuyue Stella Li***, Lillian J. Ratliff, Yulia Tsvetkov, Sewoong Oh, Pang Wei Koh. *In Submission.*

A False Sense of Privacy: Evaluating Textual Data Sanitization Beyond Surface-level Privacy Leakage. Rui Xin, Niloofar Mireshghallah, **Shuyue Stella Li**, Michael Duan, Hyunwoo Kim, Yejin Choi, Yulia Tsvetkov, Sewoong Oh, Pang Wei Koh. *In Neurips Safe Generative AI Workshop 2024.*

Valuescope: Unveiling implicit norms and values via return potential model of social interactions.
Chan Young Park*, **Shuyue Stella Li***, Hayoung Jung*, Svitlana Volkova, Tanushree Mitra, David Jurgens, Yulia Tsvetkov. *In Proceedings of EMNLP 2024.*

Learning from Mistakes: Towards Robust Neural Machine Translation for Disfluent L2 Sentences.
Shuyue Stella Li, Philipp Koehn. *In Proceedings of MT Summit 2023.*

PQLM: Multilingual Decentralized Portable Quantum Language Model.
Shuyue Stella Li, Xiangyu Zhang, Shu Zhou, Hongchao Shu, Ruixing Liang, Hexin Liu, Leibny Paola Garcia. *In Proceedings of ICASSP 2023.*

Condensing Multilingual Knowledge with Lightweight Language-Specific Modules.
Haoran Xu, Weiting Tan, **Shuyue Stella Li**, Yunmo Chen, Benjamin Van Durme, Philipp Koehn, Kenton Murray. *In Proceedings of EMNLP 2023.*

Genetic Improvement in the Shackleton Framework for Optimizing LLVM Pass Sequences.
Shuyue Stella Li, Hannah Peeler, Andrew N Sloss, Kenneth N Reid, Wolfgang Banzhaf. *In Proceedings of GECCO 2022.*

Optimizing LLVM Pass Sequences with Shackleton: A Linear Genetic Programming Framework.
Hannah Peeler, **Shuyue Stella Li**, Andrew N Sloss, Kenneth N Reid, Yuan Yuan, Wolfgang Banzhaf. *In Proceedings of GECCO 2022.*

Teaching Experience

Ethics in AI (CSE 582) — *University of Washington*
Teaching Assistant — *Jan. 2025 – March 2025*

Introduction to Statistics (EN.553.430) — *Johns Hopkins University*
Teaching Assistant — *Sep. 2021 – May 2023*

Human-Computer Interaction (EN.601.490) — *Johns Hopkins University*
Course Assistant — *Sep. 2022 – Dec. 2022*

Computer Ethics (EN.601.104) — *Johns Hopkins University*
Head Course Assistant — *May 2022 – Aug. 2022*

Intermediate Programming (EN.601.220) — *Johns Hopkins University*
Course Assistant — *Sep. 2021 – May 2022*

Work Experience

Visiting Researcher — *Seattle, WA*
Meta FAIR — *Sep. 2024 – Current*

- Visiting researcher at FAIR as part of the AIM Program working on social reasoning & alignment projects.

Software Engineer Intern — *Arlington, VA*
Yext — *May 2022 – Aug 2022*

- Integrated client data to the Yext platform for real-time updates on 3000 client entities using Go.
- Created a Figma Site Style Picker to improve developer workflow and scalability using ReactJS.

Research Intern — *East Lansing, MI*
MSU Genetic Programming Lab — *May 2021 – Aug 2021*

- Advised by Dr. Wolfgang Banzhaf; outcome: 2 research publications, 1 open-source software ↗.
- Designed and implemented novel GP algorithm for LLVM compiler flag optimization (20%).

Honors & Awards

JHU Responsible AI for Health Student Travel Grant	*2024*
Weil Family Endowed Fellowship in Computer Science & Engineering	*2023-24*
Johns Hopkins Dean's List	*2019-23*
Upsilon Pi Epsilon Computer Science Honor Society	*2022*
GECCO-GI Best Presentation Award	*2022*
ACM Student Travel Grant	*2022*
PAJH Greek Scholars Award	*2022*
Grace Hopper Scholarship Award	*2022*
Omicron Delta Kappa National Leadership Honors Society	*2022*
Omega Psi National Cognitive Science Honors Society	*2022*
Cum Laude Society	*2022*

Skills

Languages: Python, C++, C, Java, R, MATLAB, HTML/CSS, JavaScript, ReactJS, Go