Stella Li

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Research Interests

AI for Health, Safety & Reliability, Proactive Learning, Social Reasoning, Multilinguality, 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

Spurious Rewards: Rethinking training signals in RLVR
Shuyue Stella Li*, Rulin Shao*, Rui Xin*, Scott Geng*, Yiping Wang, Sewoong Oh, Simon Shaolei Du, Nathan Lambert, Sewon Min, Ranjay Krishna, Yulia Tsvetkov, Hannaneh Hajishirzi, Pang Wei Koh, Luke Zettlemoyer. *Preprint 2025.*

ALFA: Aligning llms to ask good questions a case study in clinical reasoning
Shuyue Stella Li*, Jimin Mun*, Pedram Hosseini, Bryceton G. Thomas, Jessica M. Sin, Bing Ren, Jonathan S. Ilgen, Yulia Tsvetkov, Maarten Sap. *In Proceedings of COLM 2025.*

PrefPalette: Personalized preference modeling with latent attributes
Shuyue Stella Li, Melanie Sclar, Hunter Lang, Ansong Ni, Jacqueline He, Puxin Xu, Andrew Cohen, Chan Young Park, Yulia Tsvetkov, Asli Celikyilmaz. *In Proceedings of COLM 2025.*

Precise information control in long-form text generation
Jacqueline He, Howard Yen, Margaret Li, **Shuyue Stella Li**, Zhiyuan Zeng, Weijia Shi, Yulia Tsvetkov, Danqi Chen, Pang Wei Koh, Luke Zettlemoyer. *Preprint 2025.*

BehaviorSFT: Behavioral token conditioning for clinical agents across the proactivity spectrum
Yubin Kim, Zhiyuan Hu, Hyewon Jeong, Eugene Park, **Shuyue Stella Li**, Chanwoo Park, Shiyun Xiong, MingYu Lu, Hyeonhoon Lee, Xin Liu, Daniel McDuff, Cynthia Breazeal, Samir Tulebaev, Hae Won Park. *EMNLP 2025.*

BLAB: Brutally long audio bench
Orevaoghene Ahia, . . ., **Shuyue Stella Li**, . . ., Yulia Tsvetkov, Sachin Kumar. *Preprint 2025.*

Medical hallucinations in foundation models and their impact on healthcare
Yubin Kim, Hyewon Jeong, Shan Chen, **Shuyue Stella Li**, . . ., Cynthia Breazeal. *Preprint 2025.*

MediQ: Question-asking LLMs and a benchmark for reliable interactive clinical reasoning
Shuyue Stella Li, Vidhisha Balachandran, Shangbin Feng, Jonathan S Ilgen, Emma Pierson, Pang Wei Koh, Yulia Tsvetkov. *In Proceedings of Neurips 2024.*

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

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.*

Culturalbench: a robust, diverse and challenging benchmark on measuring the (lack of) cultural knowledge of LLMs Yu Ying Chiu, Liwei Jiang, Bill Yuchen Lin, Chan Young Park, **Shuyue Stella Li**, Sahithya Ravi, Mehar Bhatia, Maria Antoniak, Yulia Tsvetkov, Vered Shwartz, Yejin Choi. *In Proceedings of ACL 2024.*

Narrowing the gap between zero- and few-shot machine translation by matching styles
Weiting Tan, Haoran Xu, Lingfeng Shen, **Shuyue Stella Li**, Kenton Murray, Philipp Koehn, Benjamin Van Durme, Yunmo Chen. *In Proceedings of NAACL 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.*

A Quantitative approach to understand self-supervised models as cross-lingual feature extractors
Shuyue Stella Li*, Beining Xu*, Xiangyu Zhang*, Hexin Liu, Wenhan Chao, Leibny Paola Garcia. *In Proceedings of IJCNLP 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.*

A new approach to extract fetal electrocardiogram using affine combination of adaptive filters
Yu Xuan, Xiangyu Zhang, **Shuyue Stella Li**, Zihan Shen, Xin Xie, Leibny Paola Garcia, Roberto Togneri. *In Proceedings of ICASSP 2023.*

Simple yet effective code-switching language ID with multitask pre-training and transfer learning
Shuyue Stella Li, Cihan Xiao, Tianjian Li, Bismarck Odoom. *Arxiv 2023.*

Language agnostic code-mixing data augmentation by predicting linguistic patterns
Shuyue Stella Li, Kenton Murray. *Arxiv 2022.*

End-to-end lyrics recognition with self-supervised learning
Xiangyu Zhang, **Shuyue Stella Li**, Zhanhong He, Roberto Togneri, Leibny Paola Garcia. *Arxiv 2022.*

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*

Service

Reviewer: ACL, EMNLP, NAACL, NeurIPS, ICLR 2025, AISTATS 2025
Program Committee: MT Summit 2025

Skills

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