Stella Li

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RESEARCH INTERESTS

Natural Language and Speech Processing, Multilingual NLP, Machine Translation, Low Resource, Code-Switching

EDUCATION

Sep. 23 – Current **University of Washington** | Seattle, WA
Ph.D. in Computer Science and Engineering | Advisor: Yulia Tsvetkov

Sep. 22 – May 23 **Johns Hopkins University** | Baltimore, MD
M.S. in Computer Science and Engineering | Advisor: Philipp Koehn & Kenton Murray
Thesis: Learning from Gibberish: Code-Mixing Data Augmentation for Sentiment Analysis
Cumulative GPA: 4.0/4.0

Aug. 19 – Dec. 22 **Johns Hopkins University** | Baltimore, MD
B.S. in Applied Mathematics and Statistics
Other Majors: Computer Science, Cognitive Science (linguistics focus); Minor: Mathematics
Cumulative GPA: 3.99/4.0, Major GPA: 4.0/4.0.

SELECT PUBLICATIONS

2023 [1] **Shuyue Stella Li** and Philipp Koehn, "Learning from Mistakes: Towards Robust Neural Machine Translation for Disfluent L2 Sentences," in MT Summit 2023.

2023 [2] **Shuyue Stella Li***, Xiangyu Zhang*, Shu Zhou, Hongchao Shu, Ruixing Liang, Hexin Liu, Leibny Paola Garcia, "PQLM - Multilingual Decentralized Portable Quantum Language Model", in IEEE ICASSP, 2023.

2023 [3] Yu Xuan, Xiangyu Zhang, **Shuyue Stella Li**, Zihan Shen, Leibny Paola Garcia, and Roberto Togneri. "A new approach to extract fetal electrocardiogram using convex combination of adaptive filters", in IEEE ICASSP 2023.

2022 [4] **Shuyue Stella Li**, Hannah Peeler, Andrew N. Sloss, Kenneth N. Reid, and Wolfgang Banzhaf, "Genetic improvement in the shackleton framework for optimizing LLVM pass sequences", in Proceedings of GECCO 2022.

2022 [5] Hannah Peeler, **Shuyue Stella Li**, Andrew N. Sloss, Kenneth N. Reid, Yuan Yuan, and Wolfgang Banzhaf, "Optimizing LLVM pass sequences with shackleton: a linear genetic programming framework", in Proceedings of GECCO 2022.

HONORS & AWARDS

2023 – 24 Weil Family Endowed Fellowship in Computer Science & Engineering
2019 – 23 Johns Hopkins Dean's List
2022 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
2021 Omicron Delta Kappa National Leadership Honors Society
2021 Omega Psi National Cognitive Science Honors Society
2019 Cum Laude Society

TEACHING EXPERIENCE

Sep. 21 – May. 23 ***Teaching Assistant*** | Introduction to Statistics (EN.553.430) | Johns Hopkins University
Taught recitation sections, held weekly office hours, graded homework & exams.

Sep. 22 – Dec. 22 ***Course Assistant*** | Human-Computer Interaction (EN.601.490) | Johns Hopkins University
Supervised design projects, held weekly office hours, graded homework & exams.

May. 22 – Aug. 22 ***Head Course Assistant*** | Computer Ethics (EN.601.104) | Johns Hopkins University
Finding supplemental materials, organizes in-class presentations, graded homework & exams.

Sep. 21 – May 22 ***Course Assistant*** | Intermediate Programming (EN.601.220) | Johns Hopkins University
Oversaw in class exercises, held weekly office hours, graded homework & exams.

WORK EXPERIENCE

May 22 – Aug. 22 **Yext** | Arlington, VA
Software Engineering Intern
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.

May 21 – Aug. 21 **MSU Genetic Programming Lab** | East Lansing, MI
Research Intern
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%).

May 20 – Aug. 20 **Bytedance (TikTok) AI Lab** | Beijing, China
Research Intern
Trained neural networks for text normalization in TTS tasks.
Implemented algorithms for theme clustering and complexity ranking for TikTok videos.

May 19 – Aug. 19 **IBM AI Doctor** | Beijing, China
Data Science Intern
Created ML models to predict diseases from symptoms using EHR records.
Improved classification accuracy from 74% to 99% with a hybrid algorithm of GA with SVM.

PROFESSIONAL SERVICES

- **Reviewer:** ACL Rolling Review (2023), EMNLP 2023

SKILLS

Programming	Python, C/C++, Java, R, MATLAB, HTML/CSS, JavaScript, ReactJS, Go
Languages	English (native); Mandarin Chinese (fluent); Spanish (intermediate)