Joyce Zhou

jyzhou15@cs.washington.edu @cephcyn
https://cephcyn.github.io @cephcyn
https://www.linkedin.com/in/cephcyn/

Education

2019 – · · · · **M.S., University of Washington Seattle** - Computer Science.
Advisor: Dan Weld
Cumulative GPA 3.86 / 4.0
Highlighted Coursework: Natural Language Processing, Adv. Topics in Human-Computer Interaction, Computer Security, Operating Systems

2016 – 2019 **B.S., University of Washington Seattle** - Computer Science, minor Mathematics
Thesis: *Finding and evaluating RNA motifs with CMfinder*.
Advisor: Larry Ruzzo
Cumulative GPA 3.94 / 4.0, *magna cum laude*
Highlighted Coursework: Software Design & Implementation, Data Structures & Parallelism, Algorithms, Data Visualization, Databases, Machine Learning, Computational Biology
Started 2 years early through the Robinson Center Academy program.

Research Publications

** denotes equal contribution*

Pre-prints

[1] 1 G. Bansal*, T. Wu*, **J. Zhou**, R. Fok, B. Nushi, E. Kamar, M. T. Ribeiro, and D. S. Weld, "Does the whole exceed its parts? the effect of AI explanations on complementary team performance", Submitted to CSCW, abridged version presented as WHI spotlight, 2020, [Online]. Available: https://arxiv.org/abs/2006.14779.

Theses

[2] 1 **J. Zhou** and L. Ruzzo, "Finding and evaluating RNA motifs with CMfinder", Bachelor's thesis, Paul G. Allen School of Computer Science & Engineering, University of Washington, 2019. [Online]. Available: https://cephcyn.github.io/pub/2019-bachelors_thesis-Finding_and_evaluating_RNA_motifs_with_CMfinder.pdf.

Research Experience

2019 – · · · · **Graduate Researcher**, Lab for Human-AI Interaction
Mentored by Gagan Bansal and advised by Dan Weld.
Developed, implemented, and evaluated a novel adaptive explanation style for human-AI teams on a sentiment analysis task. Worked on analyzing participants' feedback on how AI suggestions and explanations factored into their decision-making.
Resulted in joint 2nd-author publication and submission to CSCW, see [1]. Also featured in a WHI 2020 spotlight.

2018 – 2019 **Undergraduate Researcher** with Larry Ruzzo
Developed a set of tools (*blockmerge* and *crosscompare*) and a pipeline centered on CMfinder to search for potentially structured fRNA sequences across alignment block boundaries and cluster found covariance models.
Wrote up methods and findings in Bachelor's thesis, see [2].

Research Experience (continued)

Undergraduate Researcher with Emily Pahnke (Foster School of Business, UW)
Collected, organized, and cleaned data from a diverse range of websites (social media, blogs, business homepages) to form an original data set.

Teaching Experience

2018 – 2019 **Teaching Assistant**, University of Washington
Taught sections of 20+ students and assisted individual students in office hours.
Wrote and reviewed course handouts, homework, and exams.
Graded student programming assignments and exams.
5 quarters of TA experience:
2019 AU: CSE374 Programming Tools & Concepts (Tyler Pirtle)
2019 SP: CSE369 Introduction to Digital Design (Justin Hsia)
2019 WI: CSE369 Introduction to Digital Design (Justin Hsia)
2018 AU: CSE331 Software Design & Implementation (Mike Ernst)
2018 SU: CSE331 Design & Implementation (Leah Perlmutter)

2018 **Volunteer study group leader**, University of Washington
Reviewed concepts taught in class with students.
2018 SP: CSE351 The Hardware/Software Interface

2017 **Private tutor**
Taught concepts in intro Java programming to CS students outside of UW.

Skills

Languages (Code) Experienced: Java, Python
Familiar: C, C++, JavaScript, HTML/CSS, Bash
Interests: SQL, Haskell, LaTeX

Tools/Frameworks Experienced: Git, AllenNLP, Gensim
Familiar: PyTorch, Transformers, D3, sklearn
Interests: Java Swing, Jekyll

Languages (Natural) English, spoken Chinese (Mandarin and Shanghainese), some Spanish

Misc. Plushie-making hobbyist

Miscellaneous

Awards and Achievements

2018 **Phi Beta Kappa**, honor society, top 10%, focus on liberal arts and sciences.

2016-2018 **Dean's List**, awarded for high quarterly GPA.
Obtained Quarterly Dean's List for 7 quarters, Annual Dean's List for 2 years.

Certification

2018 **Oracle Certified Professional Java SE 8**.

2017 **Oracle Certified Associate Java SE 8**.