

Joyce Zhou

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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* [2].
 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]  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 in WHI spotlight, 2020,  [Online]. Available: <https://arxiv.org/abs/2006.14779>.



Theses

- [2]  **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

- 2020 –  **Graduate Researcher** with Elena Glassman
 Also advised by Dan Weld.
 Currently developing an aggregation and visualization method for CS research paper abstracts.
- 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.





Research Experience (continued)

- 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].
-  **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.

Certifications

- 2018  **Oracle Certified Professional Java SE 8.**
- 2017  **Oracle Certified Associate Java SE 8.**