MARISSA RADENSKY
Paul G. Allen Center, Box 352350, 185 E Stevens Way NE, Seattle, WA 98195
radensky@cs.washington.edu | 954.415.0790

RESEARCH INTERESTS

• Human-AI interaction, appropriate trust of and reliance on AI, explainable AI

EDUCATION

University of Washington, Seattle, WA | *Ph.D. in Computer Science* Expected 2024-2025
• Advisor: Dan Weld
• Relevant Courses: Introduction to Deep Learning, Natural Language Processing, Advanced Topics in Human-Computer Interaction, Quantitative Methods in Information Science, Machine Learning, Foundations of Fairness in Machine Learning
Amherst College, Amherst, MA | *Bachelor of Arts* May 2019
• B.A. in Computer Science, Physics (GPA: 3.83)

PUBLICATIONS

• Jason Portenoy, **Marissa Radensky**, Jevin West, Eric Horvitz, Daniel S. Weld, and Tom Hope. Bursting Scientific Filter Bubbles: Boosting Innovation via Novel Author Discovery. *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22).*
• Toby Jia-Jun Li, **Marissa Radensky**, Justin Jia, Kirielle Singarajah, Tom M. Mitchell, and Brad A. Myers. PUMICE: A Multi-Modal Agent that Learns Concepts and Conditionals from Natural Language and Demonstrations. *Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology (UIST '19).*
• Mary Beth Kery, **Marissa Radensky**, Mahima Arya, Bonnie E. John, and Brad A. Myers. The Story in the Notebook: Exploratory Data Science using a Literate Programming Tool. *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI '18).*

WORKSHOPS, EXTENDED ABSTRACTS, ETC.

• **Marissa Radensky**, Dustin Burson, Rajya Bhaiya, and Daniel S. Weld. Exploring How Anomalous Model Input and Output Alerts Affect Decision-Making in Healthcare. *Workshop on Trust and Reliance in AI-Human Teams at the 2022 CHI Conference on Human Factors in Computing Systems (CHI TRAIT '22).*
• **Marissa Radensky**, Doug Downey, Kyle Lo, Zoran Popović, and Daniel S. Weld. Exploring the Role of Local and Global Explanations in Recommender Systems. *Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22).*
• Toby Jia-Jun Li, **Marissa Radensky**, Justin Jia, Kirielle Singarajah, Tom M. Mitchell, and Brad A. Myers. Interactive Task and Concept Learning from Natural Language Instructions and GUI Demonstrations. *Workshop on Intelligent Process Automation at the 2020 AAAI Conference on Artificial Intelligence (AAAI IPA '20).*
• Toby Jia-Jun Li, **Marissa Radensky**, Tom M. Mitchell, and Brad A. Myers. A Multi-Modal Approach to Concept Learning in Task Oriented Conversational Agents. *Workshop on Conversational Agents: Acting on the Wave of Research and Development at the 2019 CHI Conference on Human Factors in Computing Systems (CHI ConvAI '19).*
• **Marissa Radensky**, Toby Jia-Jun Li, and Brad A. Myers. How End Users Express Conditionals in Programming by Demonstration for Mobile Apps. *Poster Track at* the *2018 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC Poster '18).*

RESEARCH EXPERIENCE

University of Washington, Seattle, WA | *Graduate Research Assistant* Sep 2019-Present
• Investigating how best to present AI uncertainty in binary classification to help users make more accurate decisions
• Designed, conducted, and analyzed a user study to investigate how AI alerts for very high and low confidence in a clinical decision-support system may impact radiologists' appropriate reliance upon the system
• Co-designed, conducted, and co-analyzed two user studies investigating how best to explain and rank author recommendations to help researchers overcome academic silos
• Designed, conducted, and analyzed preliminary studies to investigate how local (instance-level), global (model-level), and both explanations impact users' ability to understand, control, and learn from a recommender system
Google Conversational AI Team, Mountain View, CA (Remote) | *Student Researcher* June-Sep 2022
• Designed, conducted, and analyzed a mixed-methods user study investigating how different patterns of confidence communication in a conversational recommender system may impact users' trust and reliance
Microsoft Health Cloud and Data Team, Redmond, WA (Remote) | *Research Intern* June-Sep 2021
• Designed, conducted, and analyzed a user study to investigate how users of an AI clinical decision support system react to alerts for anomalous model input and output

Allen Institute for Artificial Intelligence (Semantic Scholar), Seattle, WA (Remote) | *Research Intern* June-Dec 2020
• Designed, conducted, and analyzed a mixed-methods exploratory study and a controlled user study to investigate how local, global, and both explanations serve different purposes in a research-paper recommender system
Carnegie Mellon University, Pittsburgh, PA | *Undergraduate Research Assistant* May-Nov 2017, May 2018-May 2019
• Designed and analyzed formative study of how end user programmers express conditionals in programming-by-demonstration (PBD) systems for smartphone task automation
• Implemented conditional functionality for PBD system for smartphone task automation
• Analyzed interviews using open coding to better understand data scientists' experiences using literate programming tools
• Developed software for an exploratory data analysis versioning tool to compare output of multiple versions of a program
National University of Singapore, Singapore | *Undergraduate Research Assistant* Jan-May 2018
• Constructed bird classification survey to investigate whether communicating confidence and explanations between human and AI bot leads the human-AI team to make better decisions than that of the human or AI bot alone
University of Massachusetts Amherst, Amherst, MA | *Undergraduate Research Assistant* Jan-May 2017
• Collaborated with three other students to determine possible features for a machine-learning algorithm to measure how much stroke patients, wearing finger and wrist sensors, use their hands for fine-hand movements
• Collected and processed data for trials with healthy subjects wearing the sensors
Amherst College, Amherst, MA | *Undergraduate Research Assistant* Sep-Dec 2016
• Built part of a program for acquiring and processing laboratory data such as magnetic field strength using LabVIEW

LEADERSHIP AND OTHER PROFESSIONAL EXPERIENCE

University of Washington Allen School Pre-Application Review Service, Seattle, WA | *Reader* Nov 2020, 2021, 2022
• Provided feedback on the statements of purpose and resumes of 4 prospective computer science PhD applicants
University of Washington Allen School DEI Committee, Seattle, WA | *Member* June 2020-June 2022
• Supported initiatives to improve diversity, equity, and inclusion in areas such as admissions, faculty recruiting, and outreach
Amherst College Women in Computer Science, Amherst, MA | *Co-President (final year)* Sep 2015-May 2019
• Collaborated with club members to promote club lunches in order to foster a community for women in computer science
• Organized logistics for attending Grace Hopper Celebration Conference
Computer Science Teaching Assistance, Amherst, MA | *Teaching Assistant* Jan-May 2016, Sep 2018-May 2019
• Guided introductory computer science students in completing homework questions using their own thought processes
Computer Science Assignment Grading, Amherst, MA | *Grader* Sep-Dec 2017
• Graded introductory computer science students' programming assignments
Physics Teaching Assistance, Amherst, MA | *Teaching Assistant* Sep-Dec 2016, Sep-Dec 2017
• Communicated concepts to introductory physics students to assist them in understanding class and homework assignments
Computing Research Association for Women GHC Scholarship, Orlando, FL | *Scholar* Oct 2017
• Participated in Grace Hopper Celebration conference with scholarship based on demonstrated interest in computing research
Splash! at Amherst College, Amherst, MA | *Volunteer Teacher* April 2016, April 2017
• Organized and conducted a class with a fellow student for a group of local middle and high school students to provide a fun learning experience for them and spark their interest in topics such as fractals and electronic circuits
Startup Internship at Properati, Buenos Aires, Argentina | *Data Analysis Intern* June-Aug 2016
• Scraped and analyzed data for interactive maps and data tables for a website managing Latin American real estate transactions

RELEVANT CONFERENCES AND EVENTS ATTENDED

• **Measuring the Quality of Explanations in Recommender Systems Workshop at ACM SIGIR**, virtual | *Presenter* July 2022
• **ACM Conference on Human Factors in Computing Systems**, virtual | *Attendee/Presenter* May 2021, 2022
• **Richard Tapia Celebration of Diversity in Computing Conference**, virtual | *Attendee* Sep 2020
• **VL/HCC Conference**, Lisbon, Portugal | *Poster Presenter* Oct 2018
• **Grace Hopper Celebration of Women in Computing Conference**, Houston, TX | *Attendee* Oct 2016, Oct 2017, Sep 2018
• **Women Techmakers Summit at Google Singapore**, Singapore | *Attendee* April 2018

SKILLS

• Advanced knowledge of Python, JavaScript, Java
• Intermediate knowledge of Typescript, React, HTML, CSS, R, Android Studio, Amazon MTurk
• Basic knowledge of PyTorch, Keras, TensorFlow, scikit-learn, Ruby, Datawrapper, Carto, Postman, QGIS
• Proficient in Portuguese and Spanish