MARISSA RADENSKY

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RESEARCH INTERESTS

• Human-AI interaction, appropriate trust of AI, explainable AI

EDUCATION

University of Washington, Seattle, WA | *Ph.D. in Computer Science* Expected 2024
• Advisor: Dan Weld
Amherst College, Amherst, MA | *Bachelor of Arts* May 2019
• B.A. in Computer Science, Physics

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. *(In submission)*

• 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 2019).*

• 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, p. 174. ACM, 2018.*

OTHER WORK

• **Marissa Radensky**, Doug Downey, Kyle Lo, Zoran Popović, and Daniel S. Weld. Exploring the Role of Local and Global Explanations in Recommender Systems. *(arXiv 2021)*

• 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. *The AAAI-20 Workshop on Intelligent Process Automation (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. *Conversational Agents: Acting on the Wave of Research and Development - CHI 2019 Workshop.*

• **Marissa Radensky**, Toby Jia-Jun Li, and Brad A. Myers. How End Users Express Conditionals in Programming by Demonstration for Mobile Apps. *2018 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2018) Poster Track.*

RESEARCH EXPERIENCE

University of Washington, Seattle, WA | *Graduate Research Assistant* Sep 2019-Present
• Analyzing relationships between characteristics of users' interactions with intelligent systems and users' appropriate trust of those systems (user agreement with the system if and only if they should trust it)
• Co-designed, conducted, and co-analyzed two user studies investigating how best to explain and rank author recommendations to help researchers overcome academic silos
• Conducted 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

Microsoft Health Cloud and Data Team, Redmond, WA | *Graduate Research Intern* June-Sep 2021
• Designed, conducted, and analyzed an interview study surrounding AI clinical decision support systems

Allen Institute for Artificial Intelligence (Semantic Scholar), Seattle, WA | *Graduate Research Intern* June-Dec 2020
• Designed, conducted, and analyzed a mixed-methods exploratory study and a survey-based 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 on Amazon MTurk 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 temperature and magnetic field strength using the development environment LabVIEW

LEADERSHIP AND OTHER PROFESSIONAL EXPERIENCE

University of Washington Allen School Diversity Committee, Seattle, WA | *Member* June 2020-Present

• Supporting initiatives to improve diversity, equity, and inclusion throughout the school, in areas such as admissions, faculty recruiting, and outreach

University of Washington Allen School Pre-Application Review Service, Seattle, WA | *Reader* Oct-Nov 2020

• Provided feedback on the statements of purpose and resumes of 4 prospective computer science PhD applicants

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

• Invented multiple ways to explain concepts to ensure that different students were able to understand them

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 homework assignments

• Facilitated group discussions of problems done in class

Computing Research Association for Women GHC Scholarship, Orlando, FL | *Scholar* Oct 2017

• Participated in Grace Hopper Celebration (GHC) conference for women technologists with scholarship received 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

• Wrote code for scraping through web pages and files to gather data about Latin American real estate for blog of Properati, a website that manages the selling and renting of Latin American homes

• Constructed interactive maps and data tables to present analyzed data for two blog posts

RELEVANT CONFERENCES AND EVENTS ATTENDED

- **ACM Conference on Human Factors in Computing Systems**, virtual | *Attendee* May 2021
- **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 Java, Python, JavaScript

• Intermediate knowledge of Typescript, React, HTML, CSS, R, Android Studio, Amazon MTurk

• Basic knowledge of PyTorch, Keras, TensorFlow, scikit-learn, Ruby, QGIS, Datawrapper, Carto, Postman

• Proficient in Portuguese (spoken) and Spanish