MARISSA RADENSKY

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RESEARCH INTERESTS

• Human-computer interaction, human-centered AI, explainable AI

EDUCATION

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

PUBLICATIONS

• **Marissa Radensky**, Doug Downey, Kyle Lo, Zoran Popović, Daniel S. Weld. The Role of Local and Global Explanations in Recommender Systems. *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.*

POSTERS AND WORKSHOP PAPERS

• 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

Research at Allen Institute for Artificial Intelligence, Seattle, WA | *Research Intern* June 2020-Present
• Investigating how local explanations, explaining why the user sees each recommendation, and global explanations, explaining how the system generally determines what to recommend, in recommender systems serve different purposes
Research at University of Washington, Seattle, WA | *Graduate Research Assistant* Sep 2019-Present
• Analyzing relationships between characteristics of users' interactions with an intelligent system (such as a research paper recommender system) and users' appropriate trust of the system (agreement with the system only when it is helpful)
Research at Carnegie Mellon University, Pittsburgh, PA | *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 task automation
• Implemented conditional functionality for PBD system for task automation
• Analyzed interviews 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
Research at National University of Singapore, Singapore | *Research Assistant* Jan 2018-May 2018
• Constructed bird classification survey to investigate whether communication of confidence and explanation in joint decision making between human and AI bot leads to better decision-making than that of the human or AI bot alone
Research at University of Massachusetts Amherst, Amherst, MA | *Research Assistant* Jan 2017-May 2017
• Determined 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

Research at Amherst College, Amherst, MA | *Research Assistant* Sep 2016-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 throughout the school
University of Washington Allen School Pre-Application Review Service, Seattle, WA | *Reader* Oct 2020-Nov 2020
Amherst College Women in Computer Science, Amherst, MA | *Co-President (final year)* Sep 2015-May 2019
• Organized logistics for attending Grace Hopper Celebration Conference
• Collaborated with club members to promote club lunches in order to foster a community for women in computer science
Computer Science Teaching Assistance, Amherst, MA | *Teaching Assistant* Jan 2016-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 2017-Dec 2017
• Graded introductory computer science students' programming assignments
Physics Teaching Assistance, Amherst, MA | *Teaching Assistant* Sep 2016-Dec 2016, Sep 2017-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 Analyst* June 2016-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
• Analyzed data to determine what parts of gathered data would be most interesting to readers and how best to present it
• Constructed interactive maps and data tables to present analyzed data for two blog posts

RELEVANT CONFERENCES AND EVENTS ATTENDED

- **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* Sep 2018
- **Women Techmakers Summit at Google Singapore**, Singapore | *Attendee* April 2018
- **Grace Hopper Celebration of Women in Computing Conference**, Orlando, FL | *Attendee* Oct 2017
- **Grace Hopper Celebration of Women in Computing Conference**, Houston, TX | *Attendee* Oct 2016

SKILLS

• Advanced knowledge of Java, Python
• Intermediate knowledge of JavaScript, HTML, Ruby
• Proficient in Portuguese (spoken) and Spanish