

Mary Beth Kery

Contact Human-Computer Interaction Institute
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Portfolio: <http://marybethkery.com>

Education

- Aug. 2015 - ongoing Ph.D. in Human-Computer Interaction
Carnegie Mellon University, Pittsburgh, PA
- Aug. 2011 - May 2015 B.A. Computer Science, minor in Studio Art
Wellesley College, Wellesley, MA
- Jan. 2014 - June 2014 Study Abroad
Slade School of Art, University College London, London

Research Experience

- Aug. 2015 - ongoing Graduate Research Assistant, Human-Computer Interaction Institute,
Advisor: Brad Myers
- Sept. 2014 - Jan. 2015 Undergraduate Research, Wellesley College HCI Lab
Advisor: Orit Shaer
- June 2014 - Aug. 2014 NSF Research Experience for Undergraduates,
University of California Berkeley
Mentors: Bjoern Hartmann, Christopher Myers
*Worked on developing a mixed-reality tool for drawing on a tablet
mounted to a portable CNC router: involved computer vision, software
development in Processing (Java), interface design and digital fabrication*
- May 2013 - Aug 2013 NSF Research Experience for Undergraduates,
North Carolina State University
Mentors: R. Michael Young, Liquid Narrative Research Group
*Worked on developing a software tool for building interactive narrative in
a virtual environment for the simulation of crime scenes: involved artificial
intelligence, development in C# and Unity, interface design and production
planning*

May 2012 - Aug. 2012 Undergraduate Research, Wellesley College
Advisor: Brian Tjaden
Worked on developing a software tool in Java for computational biology

Mentorship

May 2017 - Aug. 2017 Mahima Arya (Undergraduate REU student, Carnegie Mellon University)
May 2017 - Aug. 2017 Marissa Radensky (Undergraduate REU student, Amherst College)
May 2016 - Aug. 2016 Amber Horvath (Undergraduate REU student, Oregon State University)
May 2016 - Aug. 2016 Michael Puskas (Undergraduate REU student, Arizona State University)

Practical Skills

User Experience research
User Interface design
Basic static & dynamic program analysis
Code
 (advanced) Front-end web development JS/CSS/HTML/Node.js
 (advanced) Java
 (good) Python

Publications

Mary Beth Kery, Marissa Radensky, Mahima Arya, Bonnie E. John, and Brad 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. ACM, 2018. [\[pdf\]](#)

Mary Beth Kery and Brad A. Myers. "Exploring Exploratory Programming," Proceedings VL/HCC'2017: Visual Languages and Human Centered Computing, Raleigh, NC, 2017. [\[pdf\]](#)

Florian Kistner, **Mary Beth Kery**, Michael Puskas, Steven Moore and Brad A. Myers. "Support for Understanding and Writing Exception Handling Code," Proceedings VL/HCC'2017: Visual Languages and Human Centered Computing, Raleigh, NC, 2017. [\[pdf\]](#)

Julian A. Ramos Rojas, **Mary Beth Kery**, Stephanie Rosenthal, and Anind Dey. "Sampling Techniques to Improve Big Data Exploration", Proceedings of IEEE Symposium on Large Data Analysis and Visualization, 2017.

Brad A. Myers, Andrew J. Ko, Chris Scaffidi, Stephen Oney, YoungSeok Yoon, Kerry Chang, **Mary Beth Kery**, and Toby Jia-Jun Li. "Making End User Development More Natural." In New Perspectives in End-User Development, pp. 1-22. Springer, Cham, 2017.

Mary Beth Kery, Amber Horvath, and Brad Myers. "Variolite: Supporting Exploratory Programming by Data Scientists." Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems. ACM, 2017. (best paper nomination) [[pdf](#)]

Mary Beth Kery, Claire Le Goues, and Brad A. Myers. "Examining programmer practices for locally handling exceptions." In Proceedings of the 13th International Workshop on Mining Software Repositories, pp. 484-487. ACM, 2016. [[pdf](#)]

Mary Beth Kery, Monica Feldman, Jonathan Livny, and Brian Tjaden. "TargetRNA2: identifying targets of small regulatory RNAs in bacteria." Nucleic acids research (2014): gku317 [[pdf](#)]