

Mario Barrenechea - Curriculum Vitae

CONTACT INFORMATION	<p>Mario Barrenechea 430 UCB University of Colorado Boulder Boulder, CO 80303 USA</p> <p><i>mobile:</i> +1-508-904-7750 <i>email:</i> mario.barrenechea@colorado.edu <i>website:</i> http://www.mbarrenecheajr.com</p>
OBJECTIVE	<p>I am currently a 3rd year Ph.D. student studying computer science with a specialization in human-centered software engineering. Primarily, I am focused on studying collaborative tools and methods to support volunteer tech communities in designing and implementing large-scale software systems for disaster preparedness, response, and recovery. I am always seeking computer science research and development opportunities in academic, government, and industrial settings to round out my perspective on software engineering problems.</p>
RESEARCH GOAL	<p>My research goal is to improve the quality and reliability of software systems and promote these advancements to the software engineering community.</p>
RESEARCH INTERESTS	<p>Crisis informatics, software processes and methodologies, developer tools and frameworks, computer-supported cooperative work, user-centered software design and usability methods, program analysis techniques (static and dynamic).</p>
EDUCATION	<p>The University of Colorado at Boulder, Boulder, CO USA</p> <p>Ph.D., Department of Computer Science, Expected May 2016</p> <ul style="list-style-type: none">• Advisor: Professor Kenneth Anderson• Area of Study: Software Engineering• Research Groups: Project EPIC (Empowering the Public with Information in Crisis) <p>The University of Massachusetts at Amherst, Amherst, MA USA</p> <p>B.S., Department of Computer Science, May 2011</p> <ul style="list-style-type: none">• <i>Cum Laude</i>, With Commonwealth College Honors• Thesis: "Visualization of Process Guidance"• Advisors: Lori A. Clarke and Leon J. Osterweil• Research Group: LASER (Laboratory for Advanced Software Engineering Research)
ACCEPTED PAPERS	<p>Barrenechea, M., Barron, J., White, J. (2012). No place like home: pet-to-family reunification after disaster. Proceedings of the 2012 ACM annual conference extended abstracts on Human Factors in Computing Systems. Retrieved from http://dl.acm.org/citation.cfm?id=2212433</p>
TALKS	<ul style="list-style-type: none">• January, 2013. CUBoulder Graduate Student Colloquium: "Engineering for Disaster Management: A Human-centered Software Process for Designing and Developing Interactive Systems for Mass Emergency Events"• September, December 2012. CSCI 1000 - Freshmen Engineering Seminar: "Discovering More: CS Research"

- November, 2011. CSCI 3308 - Software Methods and Tools: “Software Engineering in the Medical Domain”
- May, 2011. Undergraduate Senior Thesis at LASER: “Visualization of Process Guidance”.

TEACHING EXPERIENCE

CSCI 3308 - Software Methods and Tools - Teaching Assistant, Fall 2011

- Guest Lectured ”Software Engineering in the Medical Domain”

CSCI 1300 - Introduction to Programming - Teaching Assistant, Spring 2012

SOFTWARE PROJECTS

EmergencyPetMatcher (EPM)

- Managed a four-person graduate student developer team in designing and developing EPM, a web application for reporting, matching, and verifying lost and found pets as a collaborative effort during disasters.

Project EPIC Analyze

- Currently managing a team to construct an internal web application to provision the annotation, browsing, and filtering capabilities of large-scale Twitter datasets for the Project EPIC analysts.

AWARDS

2012 ACM SIGCHI Student Design Competition Finalist

- Fourth place ”No Place Like Home” Design Prototype

2012 National Science Foundation (NSF) Graduate Research Fellowship (GRF)

- NSF GRF Honorable Mention based on essays, academic performance, and recommendation letters.

NEUCS (New England Undergraduate Computing Symposium) 2011

- Best Overall Individual Project Presenter for 2011

STEM (Science Technology Education Mathematics)

- STEM Internship Match Scholarship for Internship at Vertica Systems, 2008