Erik H. Trainer, Ph.D.

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ABOUT ME

I am a user experience (UX) researcher with 10 years' experience in human-computer interaction, specializing in the areas of EdTech and open-source software development. My research creates technologies and practices that help people have more reliable and satisfying working relationships.

User Experience Research: I led user experience evaluations of tools and practices designed to address real-world challenges like onboarding newcomers to remote software teams and promoting trust among co-workers. Through moderated user testing, surveys, and interviewing, I showed that these tools and practices achieved their goals with high usability and produced satisfying user experiences.

Leadership and Result Reporting: I generated new research projects, scoped out research programs, and planned the time and resources necessary to complete them. I presented executive summaries of the findings to my managers and fellow researchers. In addition, I published the results in numerous first-rate academic conferences such as *Computer-Supported Cooperative Work (CSCW)*.

PROJECTS

Teaching master's degree-level students to program user interfaces using a user-centered approachPratt Institute – Visiting Assistant Professor2017-Present

Goal: Give students practical hands-on experience with creating and usability testing user interfaces

Method: Through a mix of lectures and hands-on activities, I educate students on the impact UX research has on user interface design and implementation.

Improving satisfaction among e-mentored software engineering students by increasing their engagement and enhancing Google Summer of Code's learning platform

Carnegie Mellon University – Post-Doctoral Research Associate

2013-2017

Goal: Understand how a task (as defined by a student and their mentor) impacts how well that student builds technical skills and makes personal connections to members of the community

Method: I created the interview protocol and led analysis of 30 transcripts. I initiated weekly meetings with the team to discuss emerging results and manage project progress. Nearing an academic paper deadline, I delegated further interview recruiting to teammates to make progress on the paper.

Result: The paper was accepted for publication at *ICSE 2017*, the top conference in software engineering. It offered practical guidance to e-mentoring platform designers wishing to enhance student engagement, e.g., having pairs of students review each other's code, scheduling progress reports around project milestones for students to receive recognition from the community.

Improving satisfaction and trust in online communities of developers and users

Carnegie Mellon University – Post-Doctoral Research Associate

2013-2017

Goal: Promote satisfaction in diverse teams of scientific software developers and end users

Method: I designed the research study and supervised data collection of over 60 remote and face-to-face interviews, 200 surveys, and over 23 hours of *in situ* observations. I mentored 2 junior researchers in qualitative coding and affinity diagraming.

Result: The study resulted in a peer-reviewed publication at *ICSE 2017*, showing people who use brainstorming in their teams are more satisfied with their team's process and their outcome.

Promoting trust among remote workers, particularly in multinational corporations

University of California, Irvine – Graduate Student Researcher

2005-2013

Goal: Promote interpersonal trust between members of globally distributed software teams

Method: I moderated 40 user tests of a software prototype designed to promote trust by displaying detailed information about a remote collaborator's availability and responsiveness. I measured users' perceived trustworthiness of a collaborator across several conditions, and the usability of the prototype.

Result: Users made significantly better trustworthiness judgments (compared to without the prototype) and reported that it was highly usable (84% on SUS questionnaire). These findings were incorporated into a publication at *CSCW 2013*, which I co-wrote with 3 researchers on my team.

Conducting user experience research to increase sales by 12% and optimize production line WallStreet University, Inc. – Course Designer 2004-2009

Goal: Increase customer conversation rates of an online investor education course

Method: I proposed to my manager that we needed to move a call to action button outside a body of text product webpage on. I created a version of the webpage with the call to action below the body copy and ran A/B tests to compare the effectiveness of these two versions.

Result: Within 30 days there was a 12% increase in course sales through the new version of the webpage. My result persuaded management to initiate A/B testing in the company.

Developing an enhanced file sharing tool for Microsoft internal research groups

Microsoft – Summer Research Intern

2009

Goal: Allow members of Microsoft research groups to selectively sync files across their teams' devices

Method: I built a C# application on top of Cimbiosys—a file replication platform—that replicated papers and references among all Microsoft research group members' devices, but only replicated individuals' annotations on their private devices.

Result: The tool was presented to the researchers who decided to keep it for their future use.

TECHNIQUES AND TOOLS

UX Methods: Interviewing, Survey Design and Implementation, Moderated Usability Testing, Heuristic Evaluation, Cognitive Walkthrough, Prototyping, Wireframing, Think-Aloud Protocol, A/B Testing **Data Analysis:** Quantitative Analysis (R, SPSS), Qualitative Analysis (Dedoose, ATLAS.ti), SQL

EDUCATION

Ph.D., Information & Computer Science University of California, Irvine	Irvine, CA, USA
M.S., Information & Computer Science	Irvine, CA, USA
University of California, Irvine	
B.S., Information & Computer Science	Irvine, CA, USA
University of California, Irvine	