

Courtney Miller

courtneymiller [at] cmu [dot] edu
courtney-e-miller.github.io
@courtneyelta

Education

Ph.D. Software Engineering, School of Computer Science, Carnegie Mellon University, 2021-Present

B.A. (Honors) Computer Science and Statistics, New College of Florida, 2021.

Research Experience

Microsoft Research

Research Intern, Undergraduate Research Internship, June 2020–August 2020

Mentor: Tom Zimmermann

Used surveys and regression modeling to study how working from home effects team productivity

Riff Analytics

Research Assistant, August 2019–December 2019

Mentor: John Doucette

Developed new models of social behaviors at networking events

Carnegie Mellon University

Research Assistant, REU in Software Engineering, May 2019–August 2019

Mentor: Joshua Sunshine

Ran think aloud study investigating representations used by students solving math problems

New College of Florida

Research Assistant, January 2019–August 2019

Mentor: John Doucette

Performed replication study building sentiment analysis tool for software engineering domain

Carnegie Mellon University

Research Assistant, REU in Software Engineering, May 2018–January 2019

Mentors: Bogdan Vasilescu and Christian Kästner

Used data mining & survival modeling to study disengagement among open source contributors

Publications

Miller, C., Rodeghero, P., Storey, MA., Ford, D., Zimmermann, T. (2021) "How Was Your Weekend?" Software Development Teams Working From Home During COVID-19. *International Conference on Software Engineering (ICSE)*.

Miller, C., Widder, D., Kästner, C., Vasilescu, B. (2019). Why Do People Give Up FLOSSing? A Study of Contributor Disengagement in Open Source. *IFIP International Conference on Open Source Systems*. Springer, Cham.

Presentations

Why Do People Give Up FLOSSing? A Study of Contributor Disengagement in Open Source
IFIP International Conference on Open Source Systems (OSS'19), Montreal, QC, Canada, May 25, 2019

Fellowships and Grants

\$138,000 National Science Foundation (NSF) Graduate Research Fellowship, 2021-2025

\$1,540 National Science Foundation (NSF) Student Travel Grant, ICSE 2019

Honors and Awards

2020 CRA Undergraduate Researcher Award, Honorable Mention

Service

Association of Computing Machinery (ACM) New College of Florida Student Chapter

Founder and Chairperson, August 2017–November 2020

Recognized need for community. Leads fundraising, marketing, and event organization efforts

Focus on making CompSci more approachable through outreach and low-opportunity cost events

Carnegie Mellon University

Social Coordinator, May 2018–August 2018

Gauged interest in, organized, and ran social events for REUSE Summer Program

Professional Service

ICSE 2020, Students Meeting Students Session, Student Chair

Teaching Assistantships

Spring 2021 Software Engineering

Spring 2021 Object Oriented Programming

Fall 2020 Machine Learning for Visual Learners

Fall 2020 Social and Ethical Issues in Computer Science

Fall 2020 Intermediate Python

Spring 2020 Software Engineering

Fall 2019 Intermediate Python

Memberships

Association for Computing Machinery (ACM)

ACM Special Interest Group on Software Engineering (SIGSOFT)

Skills

Proficient in R, Python, Java, MySQL, Git, HTML, CSS, LaTeX, and PyTorch

HIPAA and CITI Basic Social & Behavioral Research certified. Fluent Spanish.

Last updated: June 3, 2021