# Kelsey Fulton, Ph.D.

kelsey.fulton@mines.edu @kfulton121
https://kfulton121.github.io/


## Employment History

2014 – Present **Assistant Professor.** Department of Computer Science. Colorado School of Mines.

## Education

2017 – 2023 **Ph.D. Computer Science, University of Maryland**
Thesis title: *Understanding and Improving Secure Development from a Human-Centered Perspective*

2017 – 2019 **M.Sc. Computer Science, University of Maryland**

2013 – 2017 **B.Sc. Computer Science and Mathematics, Millersville University of Pennsylnvania**

## Peer-Reviewed Publications

### Conference Proceedings

1. **K. R. Fulton**, S. Katcher, K. Song, *et al.*, "Vulnerability discovery for all: Experiences of marginalization in vulnerability discovery," in *2023 IEEE Symposium on Security and Privacy (SP)*, 2023, pp. 1997–2014. URL: https://doi.ieeecomputersociety.org/10.1109/SP46215.2023.10179478.
2. **K. R. Fulton**, D. Votipka, D. Abrokwa, M. L. Mazurek, M. Hicks, and J. Parker, "Understanding the how and the why: Exploring secure development practices through a course competition," in *Proceedings of the 2022 ACM SIGSAC Conference on Computer and Communications Security*, 2022, pp. 1141–1155. URL: https://dl.acm.org/doi/abs/10.1145/3548606.3560569.
3. **K. R. Fulton**, A. Chan, D. Votipka, M. Hicks, and M. L. Mazurek, "Benefits and drawbacks of adopting a secure programming language: Rust as a case study," in *Seventeenth Symposium on Usable Privacy and Security (SOUPS 2021)*, 2021, pp. 597–616. URL: https://www.usenix.org/conference/soups2021/presentation/fulton.
4. D. Votipka, **K. R. Fulton**, J. Parker, M. Hou, M. L. Mazurek, and M. Hicks, "Understanding security mistakes developers make: Qualitative analysis from build it, break it, fix it," in *29th USENIX Security Symposium (USENIX Security 20)*, 2020, pp. 109–126. URL: https://www.usenix.org/conference/usenixsecurity20/presentation/votipka-understanding, **Distinguished paper award winner**.
5. **K. R. Fulton**, R. Gelles, A. McKay, Y. Abdi, R. Roberts, and M. L. Mazurek, "The effect of entertainment media on mental models of computer security," in *Fifteenth Symposium on Usable Privacy and Security (SOUPS 2019)*, 2019, pp. 79–95. URL: https://www.usenix.org/conference/soups2019/presentation/fulton.

### Journals

1. J. Parker, M. Hicks, A. Ruef, *et al.*, "Build it, break it, fix it: Contesting secure development," *ACM Transactions on Privacy and Security (TOPS)*, vol. 23, no. 2, pp. 1–36, 2020. URL: https://dl.acm.org/doi/abs/10.1145/3383773.

### Peer-Reviewed Workshops and Posters

1. **K. R. Fulton**, S. Katcher, K. Song, *et al.*, *Vulnerability discovery for all: Experiences of marginalization in vulnerability discovery*, 2022. URL: https://www.usenix.org/conference/soups2022/presentation/fulton-poster.
2. **K. R. Fulton**, D. Votipka, D. Abrokwa, M. L. Mazurek, M. Hicks, and J. Parker, *Understanding the how and the why: Exploring secure development practices through a course competition*, 2022. URL: https://www.usenix.org/conference/soups2022/presentation/fulton-poster-0.
3. **K. R. Fulton**, Y. Abdi, C. Neidhart, M. L. Mazurek, and M. Hicks, *Studying the costs and benefits of rust, compared to c*, 2019. URL: https://wsiw2019.sec.uni-hannover.de/downloads/Studying%20the%20Cost%20and%20Benefits%20of%20Rust%20Compared%20to%20C.pdf.
4. R. Gelles, **K. R. Fulton**, R. Walter, and D. Levin, *Detecting iot malware with power measurements*, 2018.

## Awards and Honors

2023 **Noteworthy Reviewer Award**, USENIX Security
**John Karat Usable Security and Privacy Student Research Award**
**Distinguished Paper Award**, USENIX Security
2016 **Student of Academic Distinction**, Millersville University of Pennsylvania

## Service

### Organizing Committee

2024 **Workshops Co-Chair**, Symposium on Usable Privacy and Security (SOUPS)
2023 **Workshops Junior Co-Chair**, Symposium on Usable Privacy and Security (SOUPS)
2022 **Posters Junior Co-Chair**, Symposium on Usable Privacy and Security (SOUPS)

### Program Committee

2024 USENIX Security
IEEE Security & Privacy
IEEE ConPro
2023 USENIX Security
NDSS
2022 ACM CCS
IEEE ConPro
2021 ACM CCS
IEEE ConPro

### External Reviews

2024 ACM CHI
ACM CSCW
2023 ACM CHI
2022 PoPETS
2021 ACM CHI
ACM TOPS

## Service (continued)

- HFES

2020
- COSE
- ACM CHI Late Breaking Works

## Research Mentoring

2023 – Present
- **Max Ketter, Undergraduate researcher**
  B.Sc. Computer science, Colorado School of Mines
- **Trevor Sheehy, Undergraduate researcher**
  B.Sc. Computer science, Colorado School of Mines

2021 – Present
- **Joe Lewis, Undergraduate researcher**
  B.Sc. Computer science, University of Maryland