

# Kelsey Fulton, Ph.D.

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🌐 <https://kfulton121.github.io/>



## Employment History

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2023 – Present    📌 **Assistant Professor.** Department of Computer Science. Colorado School of Mines.

## Education

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- 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 Pennsylvania**

## Peer-Reviewed Publications

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### 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.](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.](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.](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,](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.](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.](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.](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.](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.](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




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- 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

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### 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)

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- 2020  HFES
-  COSE
-  ACM CHI Late Breaking Works

## Research Mentoring

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- 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