Kelsey Fulton, Ph.D.

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🌐 https://kfulton121.github.io/

Employment History

2023 – 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**, J. Lewis, N. Malkin, and M. L. Mazurek, "Write, Read, or Fix? Exploring Alternative Methods for Secure Development Studies," in *Symposium on Usable Privacy and Security*, 2024. 🔗 URL: https://www.usenix.org/conference/soups2024/presentation/fulton.

2. S. Katcher, L. Wang, C. Yang, *et al.*, "A Survey of Cybersecurity Professionals' Perceptions and Experiences of Safety and Belonging in the Community," in *Symposium on Usable Privacy and Security*, 2024. 🔗 URL: https://www.usenix.org/conference/soups2024/presentation/katcher.

3. **K. R. Fulton**, S. Katcher, K. Song, *et al.*, "Vulnerability Discovery for All: Experiences of Marginalization in Vulnerability Discovery," in *IEEE Symposium on Security and Privacy*, 2023. 🔗 URL: https://doi.ieeecomputersociety.org/10.1109/SP46215.2023.10179478.

4. **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 *ACM SIGSAC Conference on Computer and Communications Security*, 2022. 🔗 URL: https://dl.acm.org/doi/abs/10.1145/3548606.3560569.

5. **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 *Symposium on Usable Privacy and Security*, 2021. 🔗 URL: https://www.usenix.org/conference/soups2021/presentation/fulton.

6. 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 *USENIX Security Symposium*, 2020. 🔗 URL: https://www.usenix.org/conference/usenixsecurity20/presentation/votipka-understanding, **Distinguished paper award winner**.

7. **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 *Symposium on Usable Privacy and Security*, 2019. 🔗 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*, vol. 23, no. 2, pp. 1–36, 2020. 🔗 URL: https://dl.acm.org/doi/abs/10.1145/3383773.

Peer-Reviewed Workshops and Posters

1.   J. Lewis and **K. R. Fulton**, *NERDS: A Non-invasive Environment for Remote Developer Studies*, 2024. 🔗 URL: https://dl.acm.org/doi/10.1145/3675741.3675750.

2.   **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.

3.   **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.

4.   **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.

5.   R. Gelles, **K. R. Fulton**, R. Walter, and D. Levin, *Detecting IoT Malware with Power Measurements*, 2018.

Awards and Honors

2024	🔖	**Distinguished Reviewer Award**, USENIX Security
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

2025	🔖	USENIX Security
	🔖	IEEE Security & Privacy
2024	🔖	USENIX Security
	🔖	IEEE Security & Privacy
	🔖	IEEE ConPro
2023	🔖	USENIX Security
	🔖	NDSS
2022	🔖	ACM CCS
	🔖	IEEE ConPro
2021	🔖	ACM CCS

Service (continued)

- IEEE ConPro

External Reviews

2024
- ACM CHI
- ACM CSCW

2023
- ACM CHI

2022
- PoPETS

2021
- ACM CHI
- ACM TOPS
- HFES

2020
- COSE
- ACM CHI Late Breaking Works

Research Mentoring

2024 – Present
- **Morgan Steele, Undergraduate researcher**
  B.Sc. Computer science, Colorado School of Mines

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

2021 – 2024
- **Joe Lewis, Undergraduate researcher**
  B.Sc. Computer science, University of Maryland