

# Kelsey Fulton, Ph.D.

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🐦 @kfulton121

🌐 <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 Pennsylvania**

## 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











- |      |  |
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| 2024 |  <b>Distinguished Reviewer Award</b> , USENIX Security                            |
| 2023 |  <b>Noteworthy Reviewer Award</b> , USENIX Security                               |
|      |  <b>John Karat Usable Security and Privacy Student Research Award</b>             |
| 2020 |  <b>Distinguished Paper Award</b> , USENIX Security                               |
| 2016 |  <b>Student of Academic Distinction</b> , Millersville University of Pennsylvania |

## Service

### Organizing Committee

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|------|---|
| 2024 |  <b>Workshops Co-Chair</b> , Symposium on Usable Privacy and Security (SOUPS)        |
| 2023 |  <b>Workshops Junior Co-Chair</b> , Symposium on Usable Privacy and Security (SOUPS) |
| 2022 |  <b>Posters Junior Co-Chair</b> , 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

2025	ACM CHI
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

## Graduate

2024 – Present

- 📌 **Jack Kingham**  
PhD Computer Science, Colorado School of Mines
- 📌 **Katy Limes**  
PhD Computer Science, Colorado School of Mines
- 📌 **Abby Bissell-Westlake**  
PhD Computer Science, Colorado School of Mines
- 📌 **Kelly Fisher**  
M.Sc Computer Science, Colorado School of Mines

## Undergraduate

Fall 2024 – Present	 <b>Brinda Malik</b> B.Sc. Computer science, Colorado School of Mines
Spring 2024 – Present	 <b>Morgan Steele</b> B.Sc. Computer science, Colorado School of Mines
	 <b>Christine Worley</b> B.Sc. Mathematics, Colorado School of Mines
Fall 2023 – Present	 <b>Max Ketter</b> B.Sc. Computer science, Colorado School of Mines
2021 – 2024	 <b>Joe Lewis</b> B.Sc. Computer science, University of Maryland

## High School

Summer 2023 – Present  **Riley Herchert**  
Silver Creek High School