

Elijah Bouma-Sims

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Education

- Aug. 2021 — May 2026 📖 **Ph.D. Carnegie Mellon University:** Societal Computing
- Aug. 2017 — May 2021 📖 **B.S., B.A. North Carolina State University:** Computer Engineering, History
4.0 Cumulative GPA, Park Scholarship Program, History Honors Program

Employment History

- May. 2021 — August 2021 📖 **Research Assistant**, Max Planck Institute for Security and Privacy, Bochum, Germany
- Aug. 2019 — April 2021 📖 **Research Assistant**, Computer Science Department, College of Engineering, North Carolina State University
- May — Jul. 2020 📖 **Technical Intern**, Security Automation and Visualization Team, Cisco Inc.
- Jun. — Aug. 2019 📖 **Technical Intern**, Deployment and Lifecycle Testing, SAS Inc.
- Jan. — Dec. 2018 📖 **Writing Consultant**, University Tutorial Center, North Carolina State University
- Jun. 2018 📖 **Residential Engineering Camp Counselor**, The Engineering Place, North Carolina State University

Research Publications

Conference Proceedings

- 1 Neil, L., **Bouma-Sims, E.**, Lafontaine, E., Acar, Y., & Reaves, B. (2021). Investigating web service account remediation advice. *Seventeenth symposium on usable privacy and security (SOUPS 2021)* (26% accept rate) (pp. 359–376). USENIX Association.
🌐 <https://www.usenix.org/conference/soups2021/presentation/neil>
- 2 **Bouma-Sims, E.**, & Reaves, B. (2021). A First Look at Scams on YouTube. *Network and distributed system security symposium. Workshop on measurements, attacks, and defenses for the web.*
- 3 Prasad, S., **Bouma-Sims, E.**, Mylappan, A. K., & Reaves, B. (2020). Who's Calling? Characterizing Robocalls through Audio and Metadata Analysis. *29th USENIX security symposium (USENIX security 20)* (16.1% accept rate). USENIX Association.
🌐 <https://www.usenix.org/conference/usenixsecurity20/presentation/prasad>

Posters/Presentations

- 1 Prasad, S., Mylappan, A. K., **Bouma-Sims, E.**, & Reaves, B. (n.d.). *Who's Calling? Characterizing Robocalling Campaigns*. Poster presented by S. Prasad at Network and Distributed System Security Symposium 2020, San Diego, California and by **E. Bouma-Sims** at the NSF Secure and Trustworthy Cyberspace PI Meeting, Alexandria, Virginia.

Other Experience

Non-work Activities

- 2020 — 2021 📖 **Trombone Rank Leader**, Power Sound of the South Marching Band
- 2019 — 2021 📖 **Diversity Committee Member**, Park Scholarship Program, North Carolina State University
- 2017 — 2021 📖 **Logistics Committee Member**, Krispy Kreme Challenge Charity Race
- 2018 — 2019 📖 **Service Chair**, Benjamin Franklin Scholars, North Carolina State University

Awards and Achievements

- 2020 📖 **Internet Defense Award** for "Who's Calling? Characterizing Robocalling Campaigns through Audio and Metadata Analysis," *29th USENIX Security Symposium*, USENIX Association
- 📖 **Distinguished Paper Award** for "Who's Calling? Characterizing Robocalling Campaigns through Audio and Metadata Analysis," *29th USENIX Security Symposium*, USENIX Association
- 📖 **Security Green Belt**, Cisco Inc.
- 📖 **Best Poster Award** for "Who's Calling? Characterizing Robocalling Campaigns," *Network and Distributed System Security Symposium 2020*, Internet Society
- 2018 📖 **Undergraduate Research Grant** for research with Dr. Brad Reaves, North Carolina State University
- 2017 📖 **1st Place at Freshman Engineering Design Day**, North Carolina State University
- 📖 **Park Scholarship**, North Carolina State University
- 2016 📖 **Eagle Scout Award**, Boy Scouts of America

Skills

- Coding 📖 C, C++, Python, Ruby, SAS
- Software 📖 Microsoft Office, MongoDB, Asterisk, Linux, Docker, AWS Lambda
- Other Technical 📖 Computer Security, Networking, Circuit analysis, Data structures, Algorithms, Logic design
- General 📖 Academic research, Academic writing, Public policy, \LaTeX typesetting

References

Available on Request