

# Rachel Bleiman

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## EDUCATION

*Temple University*

2020 – Present: Ph.D. in Criminal Justice

Advisor: Dr. Aunshul Rege

**Dissertation:** *Exploring College Students' Digital Media Literacy in the Political Realm*

2022: Master of Arts in Criminal Justice

2020: Bachelor of Arts –Criminal Justice

Information Science & Technology, Psychology –Minors

## RESEARCH AREAS

Cybersecurity, Mis/Disinformation, Social Engineering, Cybercrime, AI/Deepfakes, Ransomware, Data Analysis

## CURRENT & PRIOR POSITIONS

*Temple University*

Spring 2024 – Present: Instructor of record

Course: CJ 3007 Cybercrime

2021 – Present: Research Assistant

NSF Award #2032292

Principle Investigator: Dr. Aunshul Rege

2019 – Present: Guest Lecturer

Topics: Privacy; Ransomware

*DEFCon Social Engineering Community*

2023 – 2024: Vishing Competition Researcher and Report Writer

*Department of Energy & Idaho National Labs*

2022: Social Science Research Intern

*Temple University*

2020 – 2021: Teaching Assistant

Courses: Crime Theory; Cybercrime, Organized Crime

Duties: Aid in the development of 3 social engineering experiential learning course projects, lecture classes, and grade assignments.

2019 – 2021: Research Assistant

NSF Career Award #1453040

Principle Investigator: Dr. Aunshul Rege

Duties: Conduct field research at cyber ranges and cybersecurity competitions to observe adversarial behavior in cyberattacks. Conduct interview and observational data analysis to understand adversarial behavior and group dynamics in cyber-attacks. Maintain a repository of critical infrastructure cyber-attacks. Assist with designing training projects on cyber security education

2019 – 2020: TECH Center Student Consultant

Duties: Consult and troubleshoot technological issues with printers and computers. Fulfill administrative tasks including answering phones, renting laptops to students, and booking study rooms through an online portal. Conduct inspections to ensure that patrons are abiding by the policies in place

2019: Principal Investigator

Undergraduate Honors Project

Duties: Design a social engineering research study. Create interview and observation data collection instruments. Collect field research. Recruit and survey subjects.

2018 – 2020: Subject Tutor

Courses: Crime Theory; Cybercrime, Organized Crime

Duties: Aid student-athletes in their studies by explaining difficult material and concepts in the areas of Criminal Justice, including research methods and statistics. Create post-session reports to facilitate good communication among myself, the student-athlete, and the academic advisor. Practice active listening to assess problems and adapt to each student's needs

## **JOURNAL PUBLICATIONS**

**Bleiman R.**, Park H., & Rege, A. (forthcoming). "Educating students on the behavioral and psychological aspects of romance scam victimization via a social engineering competition"

## **WHITE PAPERS/REPORTS**

Rege, A., **Bleiman, R.**, Naugle, P., & Spirito, C. (2022). "Ransomware Entry Points for Control Systems: An analysis of control system ransomware and common injection vectors". Report prepared on behalf of Idaho National Laboratory for Department of Energy

## **CONFERENCE PROCEEDING PUBLICATIONS**

Rege, A., **Bleiman, R.** (forthcoming). "A Case Study of a Ransomware and Social Engineering Competition." Proceedings from the IEEE Cyber Science Conference.

Rege, A., Spence, G., **Bleiman, R.**, Mitchell, S. & Latko, J. (forthcoming). "Bridging the 'town and gown' divide: Experiential learning for students via a community cyberhygiene training program" In 2024 IEEE Integrated STEM Education Conference (ISEC).

**Bleiman, R.** (2024). "Understanding the United States Republicans' Susceptibility to Political Misinformation". Proceedings from the IEEE Cyber Science Conference.

Rege, A., **Bleiman, R.**, Williams, K. (2024). "The Relevance of Social Engineering Competitions in Cybersecurity Education". Proceedings from the IEEE Cyber Science Conference.

Rege, A., Williams, J., **Bleiman, R.** & Williams, K. (2023). "Students' application of the MITRE ATT&CK® framework via a real-time cybersecurity exercise". Proceedings from the 22nd European Conference on Cyber Warfare and Security

- Rege, A. & **Bleiman, R.** (2022). “A Free and Community-driven Critical Infrastructure Ransomware Dataset”. Proceedings from the IEEE Cyber Science Conference.
- Bleiman, R.**, Williams, J., Rege, A. & Williams, K. (2022). “Exploring the MITRE ATT&CK® Matrix in SE Education”. Proceedings from the IEEE Cyber Science Conference.
- Williams, K., **Bleiman, R.**, & Rege, A. (2022). Educating educators on social engineering: Experiences developing and implementing a social engineering workshop for all education levels. Proceedings of the 12th IEEE Integrated STEM Education Conference (ISEC).
- Rege, A. & **Bleiman, R.** (2022). Collegiate Social Engineering Capture the Flag Competition. Proceedings of the 2021 IEEE eCrime Researchers Summit. Winner of Best Student Paper Award.
- Bleiman, R.**, Ducoste, M., & Rege, A. (2021). “Understanding cybercriminals through analysis of penetration testing group dynamics”. Proceedings from the IEEE Cyber Science Conference.
- Ducoste, M., **Bleiman, R.**, Nguyen, T., & Rege, A. (2021). “An examination of industry standards of success within penetration testing groups”. Proceedings from the 11th IEEE Integrated STEM Education Conference (ISEC).
- Rege, A. & **Bleiman, R.** (2020). “Ransomware attacks against critical infrastructure”. Proceedings of the 19th European Conference on Cyber Warfare and Security.
- Rege, A., Nguyen, T., & **Bleiman, R.** (2020). “A social engineering awareness and training workshop for STEM students and practitioners”. Proceedings of the 10th IEEE Integrated STEM Education Conference.
- Bleiman, R.** & Rege, A. (2020). “An Examination in Social Engineering: The Susceptibility of Disclosing Private Security Information in College Students”. Proceedings of the 15th International Conference for Cyber Warfare and Security.

## PRESENTATIONS

- Rachel Bleiman.** Research presentation to SEPTA corporate. August 16, 2024.
- Rege, A., Spence, G., **Bleiman, R.**, Mitchell, S. & Latko, J. (forthcoming). “Bridging the ‘town and gown’ divide: Experiential learning for students via a community cyberhygiene training program” Princeton, March, 2024, IEEE Integrated STEM Education Conference (ISEC).
- Rachel Bleiman,** “Understanding the United States Republicans’ Susceptibility to Political Misinformation” Virtual, July 2023. IEEE Cyber Science Conference.
- Rachel Bleiman,** “The Relevance of Social Engineering Competitions in Cybersecurity Education”, Virtual, July 2023. IEEE Cyber Science Conference.

**Rachel Bleiman**, “Are you smarter than a deepfake?” Atlanta, November, 2022, American Society of Criminology.

**Rachel Bleiman**, “Are you smarter than a deepfake?” Philadelphia, October 2022. WOPR

**Rachel Bleiman**, Yunming Jia, and Hwanhee Park (2022). Cybersecurity Day (in partnership with Temple University’s Digital Equity Center), October 20, 2022. National Science Foundation. Award #2032292.

**Rachel Bleiman**, Katorah Williams, and Aunshul Rege, “Exploring how Students Map Social Engineering Techniques to the ATT&CK Framework During a Real-Time Cybersecurity Exercise”, Virginia, March 2022, MITRE ATT&CKCon 3.0.

Aunshul Rege & **Rachel Bleiman**, “Collegiate Social Engineering Capture the Flag Competition”, Virtual, December 2021, IEEE eCrime Researchers Summit.

**Rachel Bleiman**, “Understanding cybercriminals through analysis of penetration testing group dynamics”, Virtual, June 2021, Cyber Science Conference.

Aunshul Rege & **Rachel Bleiman**, “Using MITRE PRE-ATT&CK and ATT&CK in Cybercrime Education and Research”, Virtual, October 2020, MITRE ATT&CKcon Power Hour.

Aunshul Rege and **Rachel Bleiman**, “Developing a Critical Infrastructure Ransomware Dataset From the Ground Up”, Virtual, October 2020, ICS Cyber Security Conference.

**Rachel Bleiman**, "Looks (and dogs) can be deceiving: student-on-student manipulation," Virtual, September 2020, BSides Boston

**Rachel Bleiman** & Wilson Diaz, “Undergraduate Student Experiences in Social Engineering” Virtual, June 2020, Layer8 Conference

**Rachel Bleiman** & Trinh Nguyen, “A social engineering awareness and training workshop for STEM students and practitioners" Virtual, August 2020, The 10th IEEE Integrated STEM Education Conference (ISEC)

**Rachel Bleiman**, “The Susceptibility of Disclosing Private Security Information in College Students,” Alexandria, VA, October 2019, NSF Secure and Trustworthy Cyberspace Principal Investigators’ Meeting

**Rachel Bleiman**, “Social Engineering Project: Pretexting” San Diego, CA, October 2019, NSF Cybersecurity Summit for Large Facilities and Cyberinfrastructure

**Rachel Bleiman**, “Social Engineering Course Projects: Terms and Conditions,” San Diego, CA, October 2019, NSF Cybersecurity Summit for Large Facilities and Cyberinfrastructure

## **WORKSHOPS HOSTED**

- Rege, A., Bleiman, R., & Spence, G. (2024).** Social Engineering Educator Workshop, March 4, 2024. National Science Foundation. Award #2032292.
- Rege, A., **Bleiman, R.** (2023). Romance Scams and Social Engineering Competition, May 19- June 11, 2023. National Science Foundation. Award #2032292.
- Rege, A., **Bleiman, R.**, Williams, K. & Spence, G. (2023). Social Engineering Educator Workshop, February 25, 2023. National Science Foundation. Award #2032292.
- Rege, A., **Bleiman, R.** (2022). Cybersecurity Day (in partnership with Temple University's Digital Equity Center), October 20, 2022. National Science Foundation. Award #2032292.
- Rege, A., **Bleiman, R.**, Williams, K. (2022). Ransomware and Social Engineering Competition, May 20 – June 12. National Science Foundation. Award #2032292.
- Rege, A., **Bleiman, R.**, Williams, K. (2022). Social Engineering After-School Workshop for Highschool Students in Philadelphia, Spring 2022. National Science Foundation. Award #2032292.
- Rege, A. & **Bleiman, R.** (2022). Social Engineering Workshop. Tsuut'ina Nation Police Service. Virtual, March 25, 2022. National Science Foundation. Award # 2032292.
- Rege, A., **Bleiman, R.**, & Williams, K. (2022). Social Engineering Educator Workshop, February 26, 2022. National Science Foundation. Award # 2032292.
- Rege, A. & **Bleiman, R.** (2022). Social Engineering Workshop. Tsuut'ina Nation Police Service. Virtual, February 25, 2022. National Science Foundation. Award # 2032292.
- Rege, A. & **Bleiman, R.** (2021). Social Engineering Workshop. Kellenberg Memorial High School. Virtual, December 7, 2021. National Science Foundation. Award # 2032292.
- Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Educator Capture-the-flag Competition and Training Event. Temple University, October 22-24, 2021. National Science Foundation. Award # 2032292.
- Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Educator Workshop, September 17, 2021. National Science Foundation. Award # 2032292.
- Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Penetration Testing Competition, June 11-July 30, 2021. National Science Foundation. Award # 2032292.
- Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Educator Workshop, June 7, 2021. National Science Foundation. Award # 2032292.
- Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Workshop. Black Girls Hack. Virtual, April 11, 2021. National Science Foundation. Award # 2032292.

Rege, A. & **Bleiman, R.** (2020). Social Engineering Capture-the-flag Competition and Training Event. Temple University, October 2-4, 2020. National Science Foundation. Award # 1453040.

Rege, A., **Bleiman, R.** & Ducoste, M. (2020). Social engineering for multiple undergraduate STEM fields. The 10th IEEE Integrated STEM Education Conference (ISEC). Virtual, August 1, 2020. National Science Foundation. Award # 1453040.

Rege, A., Nguyen, T. & **Bleiman, R.** Social Engineering Workshop. Women in Cybersecurity Conference. Denver, Colorado, March 14, 2020. – accepted, but conference cancelled due to covid-19.

Rege, A., Nguyen, T. & **Bleiman, R.** (2019). Social Engineering Workshop. 2019 NSF Cybersecurity Summit. San Diego, California, October 15, 2019. National Science Foundation. Award # 1453040.

## **VOLUNTEER & SERVICE WORK**

*Philadelphia, Pennsylvania*

2024: Philadelphia School District, Host

Inaugural cyber day training workshop

2024: Hunting Park Neighborhood. Presenter

Cybersecurity Day

2024: Juvenile Justice Center of Philadelphia (JJCP), Program Coordinator

2024: Women in Cybersecurity, Women's history month panel moderator

2020 - 2023: Carepod – Podcast, Host

*Philadelphia, Pennsylvania & Las Vegas, Nevada*

2023 – 2024: OSINT, challenge coordinator

## **HONORS AND AWARDS**

2021: IEEE 2021 Best Student Paper Award

2020: Liberal Arts Undergraduate Research Award (LAURA)

2016 – 2020: Temple University Honors Program

2020: Livingstone Undergraduate Research Award, Social Sciences

2019: SaTC PC Meeting Travel Grant

2019: CARAS Travel Grant

2019 – Present: Phi Beta Kappa Honors Society

2016 – 2019: Dean's List