Rachel Bleiman

Rachel.bleiman@temple.edu

# Education

## Temple University, Philadelphia, PA

### PhD Student, Criminal Justice [2020-Present]

GPA: 3.91

### Master of Arts, Criminal Justice [2022]

GPA: 4.0

### Bachelor of Arts, Criminal Justice; *Minors in Information Science & Technology, Psychology [2020]*

GPA: 3.93

# Publications via Conference Proceedings

1. 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).
2. **Bleiman, R.** (2024). “Understanding the United States Republicans’ Susceptibility to Political Misinformation”. Proceedings from the IEEE Cyber Science Conference.
3. Rege, A., **Bleiman, R.**, Williams, K. (2024). “The Relevance of Social Engineering Competitions in Cybersecurity Education”. Proceedings from the IEEE Cyber Science Conference.
4. 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
5. Rege, A. & **Bleiman, R.** (2022). “A Free and Community-driven Critical Infrastructure Ransomware Dataset”. Proceedings from the IEEE Cyber Science Conference.
6. **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.
7. 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).
8. 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.
9. **Bleiman, R.**, Ducoste, M., & Rege, A. (2021). “Understanding cybercriminals through analysis of penetration testing group dynamics”. Proceedings form the IEEE Cyber Science Conference.
10. Ducoste, M., **Bleiman, R.**, Nguyen, T., & Rege, A. (2021). “An examination of industry standards of success within penetration testing groups”. Proceedings form the 11th IEEE Integrated STEM Education Conference (ISEC).
11. Rege, A. & **Bleiman, R.** (2020). “Ransomware attacks against critical infrastructure”. Proceedings of the 19th European Conference on Cyber Warfare and Security.
12. 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.
13. **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.

# White Papers/Reports

1. 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 and Presentation Experience

1. 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).
2. **Rachel Bleiman**, “Understanding the United States Republicans’ Susceptibility to Political Misinformation” Virtual, July 2023. IEEE Cyber Science Conference.
3. **Rachel Bleiman**, “The Relevance of Social Engineering Competitions in Cybersecurity Education”, Virtual, July 2023. IEEE Cyber Science Conference.
4. **Rachel Bleiman, “**Are you smarter than a deepfake?” Atlanta, November, 2022, American Society of Criminology.
5. **Rachel Bleiman, “**Are you smarter than a deepfake?” Philadelphia, October 2022. WOPR
6. **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.
7. **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.
8. Aunshul Rege & **Rachel Bleiman**, “Collegiate Social Engineering Capture the Flag Competition”, Virtual, December 2021, IEEE eCrime Researchers Summit.
9. **Rachel Bleiman**, “Understanding cybercriminals through analysis of penetration testing group dynamics”, Virtual, June 2021, Cyber Science Conference.
10. 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.
11. Aunshul Rege and **Rachel Bleiman**, “Developing a Critical Infrastructure Ransomware Dataset From the Ground Up”, Virtual, October 2020, ICS Cyber Security Conference.
12. **Rachel Bleiman**, "Looks (and dogs) can be deceiving: student-on-student manipulation," Virtual, September 2020, BSides Boston
13. **Rachel Bleiman** & Wilson Diaz, “Undergraduate Student Experiences in Social Engineering” Virtual, June 2020, Layer8 Conference
14. **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)
15. **Rachel Bleiman**, “The Susceptibility of Disclosing Private Security Information in College Students,” Alexandria, VA, October 2019, NSF Secure and Trustworthy Cyberspace Principal Investigators’ Meeting
16. **Rachel Bleiman**, “Social Engineering Project: Pretexting” San Diego, CA, October 2019, NSF Cybersecurity Summit for Large Facilities and Cyberinfrastructure
17. **Rachel Bleiman**, “Social Engineering Course Projects: Terms and Conditions,” San Diego, CA, October 2019, NSF Cybersecurity Summit for Large Facilities and Cyberinfrastructure

# Workshops and Events Organized

1. Rege, A., **Bleiman, R.**, & Spence, G. (2024). Social Engineering Educator Workshop, March 4, 2024. National Science Foundation. Award #2032292.
2. Rege, A., **Bleiman, R**. (2023). Romance Scams and Social Engineering Competition, May 19-June 11, 2023. National Science Foundation. Award #2032292.
3. Rege, A., **Bleiman, R.**, Williams, K. & Spence, G. (2023). Social Engineering Educator Workshop, February 25, 2023. National Science Foundation. Award #2032292.
4. Rege, A., **Bleiman, R.** (2022). Cybersecurity Day (in partnership with Temple University’s Digital Equity Center), October 20, 2022. National Science Foundation. Award #2032292.
5. Rege, A., **Bleiman, R.**, Williams, K. (2022). Ransomware and Social Engineering Competition, May 20 – June 12. National Science Foundation. Award #2032292.
6. Rege, A., **Bleiman, R.**, Williams, K. (2022). Social Engineering After-School Workshop for Highschool Students in Philadelphia, Spring 2022. National Science Foundation. Award #2032292.
7. Rege, A. & **Bleiman, R.** (2022). Social Engineering Workshop. Tsuut’ina Nation Police Service. Virtual, March 25, 2022. National Science Foundation. Award # 2032292.
8. Rege, A., **Bleiman, R.**, & Williams, K. (2022). Social Engineering Educator Workshop, February 26, 2022. National Science Foundation. Award # 2032292.
9. Rege, A. & **Bleiman, R.** (2022). Social Engineering Workshop. Tsuut’ina Nation Police Service. Virtual, February 25, 2022. National Science Foundation. Award # 2032292.
10. Rege, A. & **Bleiman, R.** (2021). Social Engineering Workshop. Kellenberg Memorial High School. Virtual, December 7, 2021. National Science Foundation. Award # 2032292.
11. 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.
12. Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Educator Workshop, September 17, 2021. National Science Foundation. Award # 2032292.
13. Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Penetration Testing Competition, June 11-July 30, 2021. National Science Foundation. Award # 2032292.
14. Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Educator Workshop, June 7, 2021. National Science Foundation. Award # 2032292.
15. Rege, A., **Bleiman, R.**, & Williams, K. (2021). Social Engineering Workshop. Black Girls Hack. Virtual, April 11, 2021. National Science Foundation. Award # 2032292.
16. 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.
17. 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.
18. 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.
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.

# Teaching Experience

### Temple University [Spring 2024]

*Primary Instructor*

Class: Cybercrime

### Temple University [2020-2021]

*Teaching Assistant*

Classes: Crime Theory; Cybercrime

* Aid in the development of 3 social engineering experiential learning course projects
* Lecture classes
* Grade assignments

### Temple University [2019-Present]

*Guest Lecturer*

Topics: Privacy; Ransomware

### Temple University [2018-2020]

*Subject Tutor*

* 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

# Research Experience

## Department of Energy & Idaho National Labs, Virtual [2022]

Social Science Research Intern

## Temple University, Philadelphia, PA [2021-Present]

Research Assistant, NSF Award #2032292

Principle Investigator: Dr. Aunshul Rege

## Temple University, Philadelphia, PA [2019-2021]

Research Assistant, NSF Career Award #1453040

Principle Investigator: Dr. Aunshul Rege

* 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

## Temple University, Philadelphia, PA [2019]

Principle Investigator, Undergraduate Honors Project

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

# Service

* Host of CarePod podcast
* Founder and President of Women in Cybersecurity (WiCyS) Temple Chapter
* Competed in the NYU 2021 Ransomware Track Policy Competition
* Mentored high school students in the areas of cybersecurity and social engineering

# Honors and Awards

* IEEE 2021 Best Student Paper Award [2021]
* Liberal Arts Undergraduate Research Award (LAURA) [2020]
* Temple University Honors Program [2016-2020]
* Livingstone Undergraduate Research Award, Social Sciences [2020]
* SaTC PC Meeting Travel Grant [2019]
* CARAS Travel Grant [2019]
* Phi Beta Kappa Honors Society [2019-Present]
* Dean’s List [2016-2019]

# Software Skills and Technical Experience

* Statistical Analysis: SPSS and Stata
* Programming Languages: Java, Python, R, and SQL
* Spatial Analysis: ArcGIS

### Temple University [2019-2020]

*TECH Center Student Consultant*

* 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