

JEONGKEUN SHIN

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🏠 jeongkeunshin.github.io

🏠 EDUCATION

- 🎓 **Doctor of Philosophy (Ph.D.) in Societal Computing** Sep 2024 - Now
Master of Science (M.S.) in Societal Computing Sep 2024 - Now
Center for Computational Analysis of Social and Organizational Systems (CASOS)
Software and Societal Systems Department, School of Computer Science, Carnegie Mellon University
Advisor: [Professor Kathleen M. Carley](#) Pittsburgh, PA
- 🎓 **Doctor of Philosophy (Ph.D.) in Electrical and Computer Engineering** Jan 2022 - Aug 2024
Center for Computational Analysis of Social and Organizational Systems (CASOS)
Department of Electrical and Computer Engineering, Carnegie Institute of Technology, Carnegie Mellon University
Advisor: [Professor Kathleen M. Carley](#) Pittsburgh, PA
Completed Coursework Requirements / Transferred to Software and Societal Systems Department
- 🎓 **Master of Science (M.S.) in Electrical and Computer Engineering** Jan 2020 - May 2021
CyLab Biometrics Center
Department of Electrical and Computer Engineering, Carnegie Institute of Technology, Carnegie Mellon University
Advisor: [Professor Marios Savvides](#) Pittsburgh, PA
- 🎓 **Bachelor of Science in Engineering (B.S.E.) in Computer Science** Class of 2019
Crowd+Machine (CroMa) Lab & Illinois Geometry Lab
College of Engineering, University of Michigan
Advisor: [Professor Walter S. Lasecki](#) & [Professor Xin Zhang @ UIUC](#) Ann Arbor, MI

📖 PUBLICATIONS

Conference Proceedings

- [C.5] Shin, J., Carley, K. M., & Carley, L. R. (2024, May). Simulation-Based Study on False Alarms in Intrusion Detection Systems for Organizations Facing Dual Phishing and DoS Attacks. In *2024 Annual Modeling and Simulation Conference (ANNSIM)* Forthcoming. IEEE.
🏆 **Best Paper Runner Up Award**
- [C.4] Shin, J., Carley, K. M., & Carley, L. R. (2023, September). Integrating Human Factors into Agent-Based Simulation for Dynamic Phishing Susceptibility. In *International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation* (pp. 169-178). Cham: Springer Nature Switzerland.
- [C.3] Shin, J., Carley, L. R., Dobson, G. B., & Carley, K. M. (2023, December). Beyond Accuracy: Cybersecurity Resilience Evaluation of Intrusion Detection System against DoS Attacks using Agent-based Simulation. In *2023 Winter Simulation Conference (WSC)* (pp. 118-129). IEEE.
- [C.2] Shin, J., Carley, L. R., Dobson, G. B., & Carley, K. M. (2023, May). Modeling and simulation of the human firewall against phishing attacks in small and medium-sized businesses. In *2023 Annual Modeling and Simulation Conference (ANNSIM)* (pp. 369-380). IEEE.
- [C.1] Shin, J., Dobson, G. B., Carley, K. M., & Carley, L. R. (2022, September). OSIRIS: organization simulation in response to intrusion strategies. In *International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation* (pp. 134-143). Cham: Springer International Publishing.

Posters / Extended Abstracts

- [P.2] Shin, J., Dobson, G. B., Carley, K. M., & Carley, L. R. (2022, December). Leveraging OSIRIS to simulate real-world ransomware attacks on organization. In *2022 Winter Simulation Conference (WSC) Poster Session*.
- [P.1] Shin, J., Xu, Y., Zhang, C., Zhang, X., & Li, J. (2017, May). Finding integers from group orbits. Illinois Geometry Lab (IGL) Spring 2017 Open House

Technical Reports

- [T.1] Shin, J., Dobson, G. B., Carley, L. R., & Carley, K. M. (2023, December). Revelation of System and Human Vulnerabilities Across MITRE ATT&CK Techniques with Insights from ChatGPT. In CASOS Technical Report

🏆 AWARDS & ACHIEVEMENTS





2024 Annual Modeling and Simulation Conference (ANNSIM) **Best Paper Runner Up Award**

🧑‍🎓 MENTORING

- June 2024 - July 2024** Tanav Chungal · Summer Internship · Troy High School
- May 2023 - August 2023** Devashish Ubale · MITS Program Summer Internship · Master of Information Technology Strategy (MITS), Carnegie Mellon University · First Position: FPrime AI

ACADEMIC SERVICES

Peer Review

-  The Journal of Artificial Societies and Social Simulation (JASSS) [2024]
-  2024 Annual IDEaS Conference: Disinformation, Hate Speech, and Extremism Online
-  2024 International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS)
-  2024 Winter Simulation Conference (WSC) Agent-Based Simulation Track