Jeongkeun Shin, M.S.

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Education

2024 – Now   🔖 **M.S./Ph.D. in Societal Computing**, Carnegie Mellon University.
Advisor: Professor Kathleen M. Carley

2022 – 2024   🔖 **Ph.D. in Electrical and Computer Engineering**, Carnegie Mellon University.
Advisor: Professor Kathleen M. Carley
Completed Courseworks · Transferred to Software and Societal Systems Department

2020 – 2021   🔖 **M.S. in Electrical and Computer Engineering**, Carnegie Mellon Unviersity.
Advisor: Professor Marios Savvides

2019   🔖 **B.S.E. in Computer Science**, College of Engineering, University of Michigan, Ann Arbor.
Advisor: Professor Walter S. Lasecki

Research Publications

Conference Proceedings

1. J. Shin, L. R. Carley, and K. M. Carley, "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.

2. J. Shin, K. M. Carley, and L. R. Carley, "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*, Springer, 2023, pp. 169–178.

3. J. Shin, L. R. Carley, G. B. Dobson, and K. M. Carley, "Beyond Accuracy: Cybersecurity Resilience Evaluation of Intrusion Detection System Against DoS Attacks Using Agent-Based Simulation," in *2023 Winter Simulation Conference (WSC)*, 2023.

4. J. Shin, L. R. Carley, G. B. Dobson, and K. M. Carley, "Modeling and Simulation of the Human Firewall Against Phishing Attacks in Small and Medium-Sized Businesses," in *2023 Annual Modeling and Simulation Conference (ANNSIM)*, IEEE, 2023, pp. 369–380.

5. J. Shin, G. B. Dobson, K. M. Carley, and L. R. Carley, "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*, Springer, 2022, pp. 134–143.

Posters / Extended Abstracts

1. J. Shin, L. R. Carley, G. B. Dobson, and K. M. Carley, "Leveraging OSIRIS to simulate real-world ransomware attacks on organization," *2022 Winter Simulation Conference (WSC) Poster Session*, 2022.

2. J. Shin, Y. Xu, C. Zhang, X. Zhang, and J. Li, "Finding Integers from Group Orbits," *Illinois Geometry Lab 2017 Open House*, 2017.

Technical Reports

1. J. Shin, G. B. Dobson, L. R. Carley, and K. M. Carley, *Revelation of System and Human Vulnerabilities Across MITRE ATT&CK Techniques with Insights from ChatGPT*, 2023.

Awards and Achievements

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

Mentoring

Jun 2024 – Jul 2024	▐	**Tanav Changal** · Summer Internship · Troy High School
May 2023 – Aug 2023	▐	**Devashish Ubale** · MITS Program Summer Internship · Master of Information Technology Strategy (MITS), Carnegie Mellon University · First Position: FPrime AI

Skills

Languages	▐	Proficient in English, Native in Korean
Coding	▐	C, C#, C++, Java, Groovy, Python, php, Python, R, Pytorch, Tensorflow
Web Dev	▐	Html, css, JavaScript/jQuery, Node.js, React.js, Vue.js
Video Production	▐	Davinci Resolve

Academic Services

Peer Review	▐	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