

# Chaeun Han

State College, PA — cfh5554@psu.edu — (814) 308-3988 — chaeun-h.github.io

## RESEARCH INTEREST

---

Machine Learning: Security, Adversarial Machine Learning, Optimization, Decision Making  
Cyber Physical System: Transportation  
Computational Social Science: NLP, Social Media, Network Science

## EDUCATION

---

### Doctoral

Year of completion: 2027 (Expected)  
Institution: Pennsylvania State University  
Department: Information Sciences and Technology (Advisor: Aron Laszka)

### Master's Degree

Year of completion: 2024  
Institution: Pennsylvania State University  
Department: Information Sciences and Technology (Advisor: Aron Laszka)

### Bachelor

Year of completion: 2021  
Institution: Sung Kyun Kwan University  
Department: Library and Information Science & Statistics

## PUBLICATIONS

---

### Journal Article

2. Talusan, J. P., **Han, C.**, Rogers, D., Mukhopadhyay, A., Laszka, A., Freudberg, D., & Dubey, A. (2024). An End-to-End Solution for Public Transit Stationing and Dispatch Problem. *ACM Transactions on Cyber-Physical Systems*.
1. Hong, Y., Jeon, S., Choi, J., Yang, H., **Han, C.**, & Zhu, Y. (2021). A study on the development and evaluation of personalized book recommendation systems in university libraries based on individual loan records. *Journal of the Korean Society for Information Management*, 38(2), 113-127.

### Conference Papers

#### Proceedings

5. Talusan, J. P., **Han, C.**, Mukhopadhyay, A., Laszka, A., Freudberg, D., & Dubey, A. (2024). An online approach to solving public transit stationing and dispatch problem. In *2024 ACM/IEEE 15th International Conference on Cyber-Physical Systems (ICCPs)* (pp. 157-168). IEEE.
4. **Han, C.**, Talusan, J. P., Freudberg, D., Mukhopadhyay, A., Dubey, A., & Laszka, A. (2024). Forecasting and Mitigating Disruptions in Public Bus Transit Services. *Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS, 2024-May*, 798-806.
3. **Han, C.**, Mitra, P., & Billah, S. M. (2024). Uncovering Human Traits in Determining Real and Spoofed Audio: Insights from Blind and Sighted Individuals. In *Proceedings of the CHI Conference on Human Factors in Computing Systems* (pp. 1-14).
2. Okpala, I., Rodriguez, G. R., **Han, C.**, Meierhofer, M., Mammola, S., Halse, S. E., ... & Johnson, J. (2024). A Framework for Perception Analysis of Social Media Data During Disease Outbreaks: Uncovering Patterns of Resentment Towards Bats. In *HICSS* (pp. 2475-2484).
1. Choi, J., **Han, C.**, Yang, H., Hong, Y., Jeon, S., & Zhu, Y. (2021). Embedding-based neural network models for book recommendation in university libraries. In *CEUR Workshop Proceedings* (Vol. 2871, pp. 25-32). CEUR-WS.

## Extended Abstracts

2. **Han, C.**, Youm, S., Yoo, H., Jang, S., Beyond Stereotypes: Exploring How Minority College Students Experience Stigma on Reddit (IC2S2 2025).

1. **Han, C.**, Youm, S., Yoo, H., Jang, S., Information Seeking and Communication among International Students on Reddit (IC2S2 2024).

## Posters

5. Data Poisoning Revisited: Systematic Evaluation and Advanced Defense Mechanism. Poster presented at: AI Week; 2025 Apr 14-17; University Park, PA.

4. Evaluating Data Poisoning Attacks and Defenses: Toward More Resilient Protection. Poster presented at: Graduate Exhibition; 2025 Mar 24-28; University Park, PA.

3. Information Seeking and Communication among International Students on Reddit. Poster presented at: IC2S2; 2024 Jul 18-20; Philadelphia, PA.

2. Forecasting and Mitigating Disruptions in Public Bus Transit Services. Poster presented at: AI Week; 2024 Feb 18-20; University Park, PA.

1. Forecasting and Mitigating Disruptions in Public Bus Transit Services. Poster presented at: ICDS Symposium; 2023 Oct 18-20; University Park, PA.

## Manuscripts in Review

3. Influence-Guided Active Search for Forensic Investigation of Poisoned Training Data (Submitted to ICLR 2026).

2. Conceptualizing Stigma: Unpacking Minority College Students' Stigmatization on Reddit (Revise and Resubmit in Cyberpsychology, Behavior, and Social Networking)

1. "I Still Need Your Help": Online Information Seeking Behavior Among International Students on Reddit (Revise and Resubmit in PLOS One)

## AWARDS AND HONORS

---

**Best Paper Award**, International Conference on Cyber-Physical Systems (ICCPS), 2024

## GRANTS AND FELLOWSHIPS

---

**Next-Generation Science and Technology Leaders NET (차세대 NET) Program**

2025.4 – 2025.12: Research Networking Grant

Ministry of Science and ICT, Republic of Korea

Team leader of a research networking program for overseas Ph.D. researchers.

## TEACHING EXPERIENCE

---

**DS 402: Emerging Trends in the Data Sciences**  
Pennsylvania State University

Terms and years assisted: (SP 25)

**DS 200: Introduction to Data Science**  
Pennsylvania State University

Terms and years assisted: (FA 22, SP 23, FA 23, FA 24)

**IST 558: Data Mining II**  
Pennsylvania State University

Terms and years assisted: (SP 24)

**IST 261: Application Development Design Studio I**  
Pennsylvania State University

Terms and years assisted: (FA 21)

**Designing Database Systems**  
Sung Kyun Kwan University

Terms and years assisted: (SP 18)

## **PROFESSIONAL SERVICES AND MEMBERSHIPS**

---

**Conference Manuscript Review**  
ISCRAM 2023  
IC2S2 2024, 2025  
iConference 2024

**Leadership Position**  
KGSA Vice President (2024-2025)  
Korean Graduate Student Association at Pennsylvania State University

GIST Event Planner (2023-2024)  
Graduate Student Council in Information Sciences and Technology

Chief Manager of Student Council (2016-2018)  
Sung Kyun Kwan University College of Liberal Arts

## **COMPUTER & LANGUAGE SKILLS**

---

**Programming Skill**  
Python, R, SQL, JavaScript, HTML, XML  
Pandas, Scikit-Learn, Numpy, Tensorflow, Pytorch, Keras  
Window, Mac, Linux

**Language Skill**  
Korean, English, Chinese