

Chaeun Han

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RESEARCH INTEREST

Machine Learning: Security, Data Poisoning, Labeling, Optimization, Decision Making

Cyber Physical System: Transportation

Computational Social Science: NLP, Social Media, Network Science

EDUCATION

Bachelor

Year of completion: 2021

Institution: Sung Kyun Kwan University

Department: Library and Information Science & Statistics

Master's Degree

Year of completion: 2024

Institution: Pennsylvania State University

Department: Information Sciences and Technology

Doctoral

Year of completion: 2027 (Expected)

Institution: Pennsylvania State University

Department: Information Sciences and Technology

PUBLICATIONS

Journal Article

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. *arXiv preprint arXiv:2403.03339*.

4. **Han, C.**, Talusan, J. P., Freudberg, D., Mukhopadhyay, A., Dubey, A., & Laszka, A. (2024). Forecasting and Mitigating Disruptions in Public Bus Transit Services. *arXiv preprint arXiv:2403.04072*.

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.

Posters

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. **Han, C.**, Youm, S., Yoo, H., Jang, S., Revisiting “Conceptualizing Stigma”: Unpacking Minority College Students’ Stigmatization Using Reddit Big Data (ICWSM 2025)

2. Youm, S.*, **Han, C.***, Yoo, H., Jang, S. H., Dorr, B. “I Still Need Your Help”: Online Information Seeking Behavior Among International Students on Reddit, submitted to ACM Transactions on Computer-Human Interaction (TOCHI 2025).

Note: * indicates equal contribution as co-first authors.

1. Yoo, H., **Han, C.**, Youm, S., Jang, S., Mental Health and Suicidal Behavior among College Students by Minority Status: Insights from Reddit, submitted to The 11th International Joint Conference on Convergence (IJCC 2025)

TEACHING EXPERIENCE

DS 200: Introduction to Data Science Terms and years assisted: (FA 22, SP 23, FA 23, FA 24)
Pennsylvania State University

IST 558: Data Mining II Terms and years assisted: (SP 24)
Pennsylvania State University

IST 261: Application Development Design Studio I Terms and years assisted: (FA 21)
Pennsylvania State University

Designing Database Systems Terms and years assisted: (SP 18)
Sung Kyun Kwan University

SERVICE TO PROFESSION

Conference Manuscript Review
ISCRAM 2023
IC2S2 2024
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

PROFESSIONAL SKILLS

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

Language Skill
Korean, English, Chinese