

Chaeun Han

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EDUCATION

Mar 2015 – Feb 2021	Sungkyunkwan University	<i>Seoul, Korea</i>
	<ul style="list-style-type: none">▪ Bachelor of Science in Library and Information Science & Statistics (GPA: 3.6/4.0)▪ Scholarship received in 2016-2, 2017-2, and 2018-1	
Jan 2019 – July 2019	University of North Carolina at Chapel Hill	<i>Chapel Hill, NC</i>
	<ul style="list-style-type: none">▪ Exchange student in Information and Library Science Department	
Aug 2021 –	The Pennsylvania State University	<i>University Park, PA</i>
	<ul style="list-style-type: none">▪ Master of Science in Informatics▪ Transferred to Ph.D. in Informatics (DS&AI) (GPA: 3.890/4.0)	

RESEARCH PROJECTS

SSKKU Co-Deep Learning Project [1] [2]	<i>Seoul, Korea</i>
<ul style="list-style-type: none">▪ Analyzed undergraduate students' personal book preference using borrowing log.▪ Developed hyper-personalized book recommendation system using collaborative filtering.▪ Won the third prize in the contest.▪ Submitted a short research paper in Ai+iConference 2021.	
Detecting Fake Audio Project [3]	<i>University Park, PA</i>
<ul style="list-style-type: none">▪ Conduct Semi-structured Interview to identify how blind people perceive audio features.▪ Imply new insights of how to update anti-spoofing verification AI.	
Bats-and-health Project [4]	<i>University Park, PA</i>
<ul style="list-style-type: none">▪ Develop a toolkit for biologists concerned with public persecution of animals based on misinformation.▪ Research about what drives popular media stories, and how does this translate to public conversations online.	
Data-Driven Bus Disruption Prediction [5] [6]	<i>University Park, PA</i>
<ul style="list-style-type: none">▪ Involved building a simulation ML model to forecast potential bus disruptions using Python.	
Active Search against Training Data Poisoning	<i>University Park, PA</i>
<ul style="list-style-type: none">▪ Reproduced a state-of-the-art data poisoning attack model on the CIFAR-10 dataset and conducted a benchmark analysis.▪ Aim to construct a defense model utilizing an active search approach.	

PUBLICATION

CONFERENCE PAPER

- [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. *CEUR Workshop Proceedings*, 2871, 25-32.
- [2] 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.
- [3] **Han, C.**, Mitra, P. & Billah, S. Uncovering Human Traits in Spoofed Audio. *CHI 2024*. (Under Review).
- [4] Okpala, I., Romera Rodriguez, G., **Han, C.**, Meierhofer, M., Mammola, S., Halse, S., ... & Johnson, J. (2024). A Framework for Perception Analysis of Social Media Data During Disease Outbreaks: Uncovering Patterns of Resentment Towards Bats.
- [5] **Han, C.**, Talusan, J.P., Mukhopadhyay, A., Freudberg, D., Dubey A., and Laszka, A. (2024). Forecasting and Mitigating Disruptions in Public Bus Transit Services, *AAMAS 2024*.
- [6] Talusan, J.P., **Han, C.**, Mukhopadhyay, A., Freudberg, D., Laszka, A., and Dubey, A. (2024). An Online Approach to Solving Public Transit Stationing and Dispatch Problem, *ICCPS 2024*. (Under Review).

POSTER PRESENTATION

- [1] **Han, C.**, Talusan, JP. Forecasting and Mitigating Disruptions in Public Bus Transit Services. Poster presented at: ICDS Symposium; 2023 Oct 18-10; University Park, PA.

TEACHING EXPERIENCES

Teaching Assistant, Sungkyunkwan University

Seoul, Korea

- Designing Database Systems
- Guide students acquiring proficiency in MS SQL, a tool utilized for organizing, labeling, and searching information

Instructional Assistant, PSU

University Park, PA

- Application Development Design Studio Course I (IST261)
- Skills: JAVA

Teaching Assistant, PSU

University Park, PA

- Introduction to Data Science (DS200)
- Data Mining II (IST558)

WORKING EXPERIENCES

Mobile Marketing Supporters, KT (Korea Telecom)*Mar 2018 - Jan 2019, Seoul, Korea*

- Created videos for online marketing about 5G Technology using Virtual Reality
- Presented digital marketing strategies about social media to CEO and senior level managers

Research Assistant, BOK (Bank of Korea)*June 2021 - July 2021, Seoul, Korea*

- Collected financial data about acquisition of tangible and intangible assets from DART (Data Analysis, Retrieval and Transfer System) for the national balance sheet
- Performed a survey of construction in-progress of domestic enterprises.

SKILLS

Technical Skills

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

Languages

- Fluent in Korean, English, and Chinese

SCHOLARSHIP, LEADERSHIP, AWARDS AND OTHERS

GIST Event Planner*August 2023- July 2024*

College of Information Science and Technology

Executive Chair of Student Conference*Sep 2019 - 2020 Feb*

Department of Data Science and Library and Information Science

Chief Manager of Student Council*Mar 2016 - Feb 2018*

College of Liberal Arts

PROFESSIONAL SERVICES

Reviewer of ISCRAM

2023