

EDUCATION

University of Minnesota , Minneapolis, USA	Sep. 2021 - <i>Present</i>
Ph.D. in Computer Science Advisor: Professor Yao-Yi Chiang	
Carnegie Mellon University , Pittsburgh, USA	Jan. 2020 - Jul. 2020
Visiting Scholar in Language Technologies Institute Project Course Mentor: Jeffrey Gennari	
Sungkyunkwan University , Seoul, Republic of Korea	Mar. 2019 - Feb. 2021
M.Sc. in Interaction Science Advisor: Professor Eunil Park Thesis Title: A Human-Centered Machine Learning Approach for Mental Health in Social Media	
Hansung University , Seoul, Republic of Korea	Mar. 2015 - Feb. 2019
B.S. in Computer Engineering Advisors: Professor Kitae Hwang and Professor Inhwon Jung	

PUBLICATIONS

* = co-corresponding author, ** = equal contribution

- [1] Between Comments and Repeat Visit: Capturing Repeat Visitors with a Hybrid Approach.
Kim, J.**, Jang, Y.**, Bae, K., Oh, S., Jeong, N. J., Park, E., Han, J., & del Pobil, A. P. (2021).
Data Technologies and Applications, 55(4), 542-557. ISSN: 2514-9288 (SSCI, JCR 2019 IF=0.704). [\[link\]](#)
- [2] What books will be your bestseller? A machine learning approach with Amazon Kindle.
Lee, S., Ji, H., **Kim, J.***, & Park, E. (2021).
The Electronic Library, 39(1), 137-151. ISSN: 0264-0473 (SSCI, JCR 2019 IF=0.792).
[\[link\]](#)
- [3] Machine Learning for Mental Health in Social Media: Bibliometric Study
Kim, J., Lee, D., & Park, E. (2021).
Journal of Medical Internet Research, 23(3), e24870. ISSN: 1438-8871 (SCIE, JCR 2019 IF=5.034, Q1 in *Medical Informatics*). [\[link\]](#)
- [4] A deep hybrid learning model for customer repurchase behavior.
Kim, J., Ji, H., Oh, S., Hwang, S., Park, E., & del Pobil, A. P. (2021).
Journal of Retailing and Consumer Services, 59, 102381. ISSN: 0969-6989 (SSCI, JCR 2018 IF=3.585, Q2 in *Business*). [\[link\]](#)
- [5] A deep learning model for detecting mental illness from user content on social media.
Kim, J., Lee, J., Park, E., & Han, J. (2020).
Scientific Reports, 10, 11846, ISSN: 2045-2322 (SCIE, JCR 2019 IF=3.998, Q1 in *Multidisciplinary Sciences*). [\[link\]](#) [\[dataset\]](#)
- [6] Can AI be a content creator? Effects of content creators and information delivery methods on the psychology of content consumers.
Kim, J., Shin, S., Bae, K., Oh, S., Park, E. & del Pobil, A. P. (2020).
Telematics and Informatics, 55, 101452, ISSN: 0736-5853 (SSCI, JCR 2019 IF=4.139, Q1 in *Information Science & Library Science*). [\[link\]](#)
- [7] Who will be your next customer: A machine learning approach to customer return visits in airline services.
Hwang, S., **Kim, J.**, Park, E., & Kwon, S. J. (2020).

Journal of Business Research, 121, 121-126, ISSN: 0148-2963 (SSCI, JCR 2019 IF=4.874, Q1 in Business). [\[link\]](#)

- [8] Cross-cultural Comparison of Interactive Streaming Services: Evidence from Twitch. Oh, S., **Kim, J.**, Ji, H., Park, E., Han, J., Ko, M., & Lee, M. (2020). *Telematics and Informatics*, 55, 101434, ISSN: 0736-5853 (SSCI, JCR 2019 IF=4.139, Q1 in Information Science & Library Science). [\[link\]](#)
- [9] Who will Subscribe to My Streaming Channel?: The Case of Twitch. **Kim, J.**, Bae, K., Park, E., & del Pobil, A. P. (2019). *In Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing* (pp. 247-251). ACM. [\[link\]](#) [\[poster\]](#)
- [10] Determinants of customer satisfaction with airline services: An analysis of customer feedback big data. Park, E., Jang, Y., **Kim, J.**, Jeong N. J., Bae, K., & del Pobil, A. P. (2019). *Journal of Retailing and Consumer Services*, 51, 186-190, ISSN: 0969-6989 (SSCI, JCR 2018 IF=3.585, Q2 in Business). [\[link\]](#)
- [11] Beyond coolness: Predicting the technology adoption of interactive wearable devices. **Kim, J.**, & Park, E. (2019). *Journal of Retailing and Consumer Services*, 49, 114-119, ISSN: 0969-6989 (SSCI, JCR 2018 IF=3.585, Q2 in Business). [\[link\]](#)

RESEARCH PROJECTS

Machines Reading Maps, National Endowment for the Humanities.

- Research Assistant Sep. 2021 - Present
- Making maps searchable and linked to other geospatial data and collections
- Developing semantic type recommendation API and automatic entity linking module on mapKurator

Developing a Deep Learning Model for Detecting High-Risk Mental Health Group, The Individual Research Grants Program, National Research Foundation of Korea.

- Research Associate (*in Charge*) Mar. 2020 - Feb. 2021
- Analyzed mental health-related social media data, developed deep learning models for text classification, and published 2 journal articles as a first author

Designing an Analysis Model on Abnormal Statements in Thermal Pipelines Monitoring Procedures, The Commissioned Research, Korea Institute of Civil Engineering and Building Technology (KICT).

- Research Associate Jul. 2020 – Nov. 2020
- Analyzed image segmentation techniques on crack detection, proposed U-Net based architectures, and submitted journal article as a second author

Developing a Deep Learning Model for Predicting Service Reuse, The Individual Research Grants Program, National Research Foundation of Korea.

- Research Associate (*in Charge*) Mar. 2019 - Dec. 2019
- Analyzed large-scale data obtained from online services, developed deep learning models to predict customers' service reuse, and published 3 journal articles

Big Data Research for Artificial Intelligence Applications, ETRI. Jun. 2019 - Nov. 2019

- Research Associate
- Analyzed chat messages in one of the live streaming platforms, predicted whether viewers have paid subscriptions based on their chat messages
- Implemented web application using Flask, Python web framework, and uploaded project tutorial video

	Theorizing and Analyzing User Resistance Behavior: An Application of Big Data Approaches , Samsung Research Grants Program, Samsung and Sungkyunkwan University. - Research Associate Jul. 2019 - Dec. 2019 - Carried out statistical analysis to investigate users' resistance behavior on IoT services, and published journal article as a first author	
	Development of the Appliance with Messaging Technology underlying Hyper-Connected Society , Seoul Business Agency and Hansung University - Undergraduate Research Intern Nov. 2017 - Oct. 2018 - Developed real time location-based notification service prototype of both Android app and web application using Java, and published domestic conference paper	
WORK EXPERIENCE	Raon Data Mar. 2021 - Jun. 2021 AI scientist intern	
	Electronics and Telecommunications Research Institute (ETRI) Jun. 2018 - Aug. 2018 Undergraduate summer intern, investigated research on multiple conversational agents in IoT research section	
TEACHING EXPERIENCE	Sungkyunkwan University , Seoul, Republic of Korea Head Teaching Assistant, Undergraduate Course Fall 2020 - AAI3020: Capstone Design Project for Artificial Intelligence Teaching Assistant, Undergraduate Course Fall 2019 - AAI2007: Introduction to Algorithms (<i>in English</i>) Tutor, Undergraduate Tutoring Program Spring 2019	
	Hansung University , Seoul, Republic of Korea Tutor, Undergraduate Tutoring Program Spring 2018, Fall 2017, Spring 2017, Spring 2016	
	1st Prize in Student Poster Competition June 2022 2022 UCGIS Symposium	
	2nd Prize in Global Training Program Achievement Award Nov. 2021 Ministry of Science and ICT, Korea	
	2nd Prize in Fake-EmoReact Challenge Jun. 2021 SocialNLP @ NAACL '21	
ACADEMIC HONORS & SCHOLARSHIPS	The Global Young Scientists Summit (GYSS) 2021 Jan. 2021 National Research Foundation, Singapore	
	Best Research Award (1st) Mar. 2020 College of Computing, Sungkyunkwan University	
	Full Scholarship for Intensive Artificial Intelligence Program in CMU Jan. 2020 Institute for Information and Communications Technology Promotion (IITP) under the Ministry of Science and ICT	
	Graduate Scholarship (\$12,000) 2019 - 2020 Sungkyunkwan University	
	Undergraduate Distinguished Achievement Award Feb. 2019 Hansung University	
	Academic Excellence Scholarship (\$2,100; 1/2 Tuition) Fall 2017, Fall 2018 Department of Computer Engineering, Hansung University	
	1st Prize in 2018 Capstone Design Jun. 2018 Department of Computer Engineering, Hansung University	

- Project Title: An MQTT based Real Time LBS System Design for Vehicles and Pedestrians

2nd Prize in 15th Embedded Software Contest

Dec. 2017

ETRI

- Project Title: Drone Streaming Solution Using Raspberry PI 3

SERVICES

Proceeding Chair

- SDM '23

Program Committee

- CIKM '22 Demo Track

Reviewer

- SIGSPATIAL '21, '22
- Scientific Reports
- AIME '22
- Behaviour & Information Technology

Student Volunteer

- SIGSPATIAL '21
- ICML '20

Service Appointments

- Board of Directors & Web Master, Minnesota Association for Korean Americans (MAKA)
- Vice President & Web Master, Minnesota Korean Graduate Students Association (MKGSA)

REFERENCES

Yao-Yi Chiang, Ph.D. (e-mail: yaoyi@umn.edu; phone: +1-213-924-7106)

- *Associate Professor*,
Department of Computer Science & Engineering, University of Minnesota, USA

Eunil Park, Ph.D. (e-mail: eunilpark@skku.edu; phone: +82-2-740-1864)

- *Assistant Professor*,
Department of Interaction Science & Department of Applied Artificial Intelligence,
Sungkyunkwan University, Republic of Korea

Jinyoung Han, Ph.D. (e-mail: jinyoungchan@skku.edu; phone: +82-2-740-1797)

- *Assistant Professor*,
Department of Applied Artificial Intelligence, Sungkyunkwan University, Republic of Korea

Kitae Hwang, Ph.D. (e-mail: calafk@hansung.ac.kr; phone: +82-2-760-4300)

- *Professor*,
Department of Computer Engineering, Hansung University, Republic of Korea