

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

Journal Articles

- J1. Understanding social resistance to determine the future of Internet of Things (IoT) services.
Kim, J., & Park, E. (2022).
Behaviour & Information Technology, ISSN: 1362-3001 (SSCI, JCR 2019 IF=1.781).
[\[link\]](#)
- J2. 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). [\[link\]](#)
- J3. 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).
[\[link\]](#)
- J4. 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*). [\[link\]](#)
- J5. 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*). [\[link\]](#)
- J6. 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*). [\[link\]](#) [\[dataset\]](#)
- J7. 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*). [\[link\]](#)

J8. 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*). [\[link\]](#)

J9. 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*). [\[link\]](#)

J10. Determinants of customer satisfaction with airline services: An analysis of customer feed-
 back 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*). [\[link\]](#)

J11. 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*). [\[link\]](#)

Conference & Symposium Proceedings

C1. 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. [\[link\]](#) [\[poster\]](#)

PRESENTATIONS & WORKSHOPS

P1. Identifying Street Name Evolution in Semantic, Temporal, and Geographic Spaces.
Kim, J.^{**}, Namgung, M.^{**}, Uhl, J H., Burghardt, K., Chiang, Y.-Y., Leyk, S., & Ler-
 man, K. (2022).
Spatial Humanities 2022. [\[link\]](#)

P2. Machines Reading Maps: unlocking historical maps with machine learning and Semantic
 Web technologies.
 Chiang, Y.-Y., Holmes-Wong, D., **Kim, J.**, Li, Z., McDonough, K., Simon, R., & Vitale,
 V. (2022).
Spatial Humanities 2022. [\[link\]](#)

P3. Generating Geospatial Linked Data from Text Labels on Historical Maps.
Kim, J. (2022).
UCGIS Symposium 2022.

W1. Reading and Linking Place: Text on Historical Maps.
Kim, J., & Chiang, Y.-Y. (2022).
UCGIS Symposium 2022. [\[workshop\]](#)

RESEARCH PROJECTS

Machines Reading Maps, National Endowment for the Humanities

- Research Assistant Sep. 2021 - Present
- Making historical scanned maps easily discoverable and accessible
- Developing semantic type recommendation API and automatic entity linking module on
 mapKurator pipeline

	Developing a Deep Learning Model for Detecting High-Risk Mental Health Group , The Individual Research Grants Program, National Research Foundation of Korea	
	- Research Associate (<i>in Charge</i>)	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 (<i>in Charge</i>)	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	
TEACHING EXPERIENCE	Electronics and Telecommunications Research Institute (ETRI)	Jun. 2018 - Aug. 2018
	Undergraduate summer intern, investigated research on multiple conversational agents in IoT research section	
	University of Minnesota , Minneapolis, USA	
	Teaching Assistant, Undergraduate Course	Fall 2022
	- CSCI 1133: Introduction to Computing and Programming Concepts	
	Sungkyunkwan University , Seoul, Republic of Korea	
	Head Teaching Assistant, Undergraduate Course	Fall 2020
	- AAI 3020: Capstone Design Project for Artificial Intelligence	
	Teaching Assistant, Undergraduate Course	Fall 2019
	- AAI 2007: 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
ACADEMIC HONORS & SCHOLARSHIPS	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	
	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, '22	
	- ICML '20	
	Service Appointments	
	- Board of Director & 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

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

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