

## RESEARCH INTERESTS

Human-Computer Interaction, Computational Social Science, Natural Language Processing

## EDUCATION

**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 - Present  
M. Sc. in Interaction Science  
Advisor: Professor Eunil Park  
Thesis Title: A Human-Centered Machine Learning Approach for Mental Health in Social Media (*in progress*)

**Hansung University**, Seoul, Republic of Korea Mar. 2015 - Feb. 2019  
B. S. in Computer Engineering  
Advisors: Professor Kitae Hwang and Professor Inhwon Jung

## PUBLICATIONS

- [1] A deep hybrid learning model for customer repurchase behavior.  
**Kim, J.**, Ji, H., Oh, S., Hwang, S., Park, E., & del Pobil, A. P. (accepted).  
*Journal of Retailing and Consumer Services*, ISSN: 0969-6989 (SSCI, JCR 2018 IF=3.585, Q2 in *Business*).
- [2] Understanding social resistance to determine the future of Internet of Things (IoT) services.  
**Kim, J.**, & Park, E. (accepted).  
*Behaviour & Information Technology*, ISSN: 1362-3001 (SSCI, JCR 2019 IF=1.781).
- [3] 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*). [[Dataset](#)]
- [4] 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*).
- [5] 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*).
- [6] 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*).
- [7] 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.

- [8] 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*).
- [9] 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*).

WORK  
EXPERIENCE

**Electronics and Telecommunications Research Institute (ETRI)** Jun. 2018 - Aug. 2018  
Undergraduate Summer Intern, Working in IoT Research Section investigating research on multiple conversational agents.

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 (*in English*)  
Tutor, Undergraduate Tutoring Program Spring 2019  
**Hansung University**, Seoul, Republic of Korea  
Tutor, Undergraduate Tutoring Program Spring 2018, Fall 2017, Spring 2017, Spring 2016

RESEARCH  
PROJECTS

**Developing a Deep Learning Model for Detecting High-Risk Mental Health Group**, The Individual Research Grants Program, the National Research Foundation of Korea (NRF).  
- Research Associate (*in Charge*) Mar. 2020 - Present  
- Investigating both theoretical and practical foundations of detecting high-risk mental health group with deep learning approaches  
- 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, NRF.  
- 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 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.

	<ul style="list-style-type: none"> <li>- Research Associate Jul. 2019 - Dec. 2019</li> <li>- Carried out statistical analysis to investigate users' resistance behavior on IoT services, and published journal article as a first author</li> </ul>
	<p><b>Development of the Appliance with Messaging Technology underlying Hyper-Connected Society</b>, Seoul Business Agency and Hansung University</p> <ul style="list-style-type: none"> <li>- Undergraduate Research Intern Nov. 2017 - Oct. 2018</li> <li>- Developed real time location-based notification service prototype of both Android app and web application using Java, and published domestic conference paper</li> </ul>
HONORS & AWARDS	<p><b>Best Research Award (1st)</b> Mar. 2020 College of Computing, Sungkyunkwan University</p> <p><b>Full Scholarship for Intensive Artificial Intelligence Program in CMU</b> Jan. 2020 Institute for Information and Communications Technology Promotion (IITP) under the Ministry of Science and ICT</p> <p><b>Graduate Scholarship (\$12,000)</b> 2019 - 2020 Sungkyunkwan University</p> <p><b>Undergraduate Distinguished Achievement Award</b> Feb. 2019 Hansung University</p> <p><b>Academic Excellence Scholarship (\$2,100; 1/2 Tuition)</b> Fall 2017, Fall 2018 Department of Computer Engineering, Hansung University</p> <p><b>1st Prize in 2018 Capstone Design</b> Jun. 2018 Department of Computer Engineering, Hansung University</p> <ul style="list-style-type: none"> <li>- Project Title: An MQTT based Real Time LBS System Design for Vehicles and Pedestrians</li> </ul> <p><b>2nd Prize in 15th Embedded Software Contest</b> Dec. 2017 ETRI</p> <ul style="list-style-type: none"> <li>- Project Title: Drone Streaming Solution Using Raspberry PI 3</li> </ul>
ACADEMIC SERVICES	<p><b>Student Volunteer</b></p> <ul style="list-style-type: none"> <li>- ICML 2020</li> </ul>
SKILLS	<p><b>Programming Language:</b> Python, C, Java, C++, Javascript</p>
REFERENCES	<p><b>Eunil Park, Ph. D.</b> (e-mail: eunilpark@skku.edu; phone: +82-2-740-1864)</p> <ul style="list-style-type: none"> <li>- <i>Assistant Professor</i>, Department of Interaction Science &amp; Department of Applied Artificial Intelligence, Sungkyunkwan University, Republic of Korea</li> </ul> <p><b>Kitae Hwang, Ph. D.</b> (e-mail: calafk@hansung.ac.kr; phone: +82-2-760-4300)</p> <ul style="list-style-type: none"> <li>- <i>Professor</i>, Department of Computer Engineering, Hansung University, Republic of Korea</li> </ul>