

## RESEARCH INTERESTS

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

## 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 Jung Inhwan

## 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.

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| WORK EXPERIENCE     | Electronics and Telecommunications Research Institute (ETRI)<br>Undergraduate Summer Intern, Mentor: Donghun Lee   | Jun. 2018 - Aug. 2018   |
| TEACHING EXPERIENCE | <b>Sungkyunkwan University</b> , Seoul, Republic of Korea<br>Head Teaching Assistant, Undergraduate Course<br>- AAI3020: Capstone Design Project for Artificial Intelligence<br>Teaching Assistant, Undergraduate Course<br>- AAI2007: Introduction to Algorithms ( <i>in English</i> )<br>Tutor, Undergraduate Tutoring Program<br><b>Hansung University</b> , Seoul, Republic of Korea<br>Tutor, Undergraduate Tutoring Program  | Fall 2020<br><br><br>Fall 2019<br><br>Spring 2019<br><br>Spring 2018, Fall 2017, Spring 2017, Spring 2016   |
| RESEARCH PROJECTS   | <b>Developing a Deep Learning Model for Detecting High-Risk Mental Health Group</b> , The Individual Research Grants Program, the National Research Foundation of Korea (NRF).<br>- Research Associate ( <i>in Charge</i> )<br>- Investigating both theoretical and practical foundations of detecting high-risk mental health group with deep learning approaches<br>- Analyzed mental health-related social media data, developed deep learning models for text classification, and published 2 journal articles as a first author<br><br><b>Designing an Analysis Model on Abnormal Statements in Thermal Pipelines Monitoring Procedures</b> , The Commissioned Research, Korea Institute of Civil Engineering and Building Technology (KICT).<br>- Research Associate<br>- Analyzed image segmentation techniques on crack detection, proposed U-Net based architectures, and submitted journal article as a second author<br><br><b>Developing a Deep Learning Model for Predicting Service Reuse</b> , The Individual Research Grants Program, NRF.<br>- Research Associate ( <i>in Charge</i> )<br>- Analyzed large-scale data obtained from online services, developed deep learning models to predict customers' service reuse, and published 3 journal articles<br><br><b>Big Data Research for Artificial Intelligence Applications</b> , ETRI.<br>- Research Associate<br>- Analyzed chat messages in one of live streaming platforms, predicted whether viewers have payed subscriptions based on their chat messages<br>- Implemented web application using Flask, Python web framework, and uploaded project tutorial video<br><br><b>Theorizing and Analyzing User Resistance Behavior: An Application of Big Data Approaches</b> , Samsung Research Grants Program, Samsung and Sungkyunkwan University.<br>- Research Associate | Mar. 2020 - Present<br><br><br><br><br><br>Jul. 2020 – Nov. 2020<br><br><br><br><br><br>Mar. 2019 - Dec. 2019<br><br><br><br><br><br>Jun. 2019 - Nov. 2019<br><br><br><br><br><br><br><br>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

**HONORS &  
AWARDS**

**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

**ACADEMIC  
SERVICES**

**Student Volunteer**  
- ICML 2020

**SKILLS**

**Programming Language:** Python, C, C++, Java, Javascript