# Yongshin Kim

Motto: "Always learn"
July. 1st 2021

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## RESEARCH INTEREST

Causal Inference, Statistical Data Analysis, Machine Learning, Human-Computer Interaction

## EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)
M.S. in Knowledge Service Engineering                    *Aug. 2020 – Jul. 2022(expected)*
Advisor: Uichin Lee

Handong Global University (HGU)
B.A. Mathematics and Statistics & B.A. Management (Double-Major)     *Mar. 2014 – Jul. 2020*
*Summa Cum Laude*

## PUBLICATIONS

[1] SeungLin Yang, Yongshin Kim, Doohee Chung, (2019) *"Nonlinear Relationship Between Technological Entrepreneurship and National Competitiveness: The Moderation Effect of Innovation-driven Economy"*, Journal of Technology Innovation, 27(3), 113-142. (KCI)

[2] Haejun Jung, Yongshin Kim, Doohee Chung, (2019) *"The Effect of Intellectual Property-Based Startups on Employment"*, Innovation Studies, 14(4), pp119-154. (KCI)

## ACADEMIC EXPERIENCE

**Research Assistant**

Interactive Computing Lab                                        KAIST
Advisor: Uichin Lee                             *Aug. 2020 – Jul. 2022(expected)*

Technological entrepreneurship Lab                               HGU
Advisor: Doohee Chung                             *Aug. 2018 – Jul. 2020*

Mathematics and Statistics major                                HGU
Advisor: Heonjoo Kim                              *Aug. 2019 – Feb. 2020*

**Teaching Assistant**

Business Information Technology Practice                         HGU
Advisor: I-Soo Joe                               *Mar. 2018 – Jul. 2018*

Principles of Accounting (Tutoring for foreigner)               HGU
Advisor: Hyunmo Sung                             *Sept. 2017 – Dec. 2017*

## OTHER EXPERIENCE

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|---|---|
| Mentor, Vision in Calling, HGU | *Mar. 2020 – Jul. 2020* |
| Director, Dep. of General Affairs, Student Government, HGU | *Dec. 2019 – Jul. 2020* |
| Director, Technological entrepreneurship Lab, HGU | *Jul. 2019 – Feb. 2020* |
| Executive, Residential College of International Dormitory, HGU | *Jul. 2019 – Feb. 2020* |
| Manager, Handong English Camp, HGU | *Mar. 2018 – Sept. 2018* |
| Instructor Education Certification for foreigners, HGU | *Mar. 2018 – Jun. 2018* |
| Accountant, International freshmen orientation, HGU | *Mar. 2017 – Aug. 2019* |
| English Teacher, Global Vision Christian School (GVCS) | *May. 2017 – Sept. 2017* |

## PROJECTS

### Research Projects

Digital Therapeutics (DTx)      KAIST
- Development of fundamental technologies of data-driven digital therapeutic, receptivity *Aug. 2020 – present*
optimization for mobile digital therapeutic development.

Smart Mask      KAIST
- Development of emotional and stress monitoring algorithm through smart mask sensor data *Jan. 2021 – present*

Contact Tracing      KAIST
- Development of a risk-scoring algorithm that can be used to tack COVID-19 confirmed *Aug. 2020 – Dec. 2020*
cases and to verify its validity

### Course Projects

[KSE531] Human-Computer Interaction: Theory and Design      KAIST
- "Step-by-step Self-reliant Thinking with CAN(Communicative Art Network)" *Spring 2021*

[KSE526] Analytical Methodologies for Big Data      KAIST
- "EFNet: Attention based CNN-LSTM Networks for Energy Usage *Fall 2020*
Forecasting with External Factors"

[KSE801] Special Topics in Intelligent Service Engineering (Sensor Data Science)      KAIST
- Emotion recognition with mobile phone & wearable sensor data *Fall 2020*

## AWARDS AND HONORS

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|---|---|
| President Award (Top 10 World-changing Projects), HGU | *2020* |
| Best Paper Award (National Technology Policy Paper Competition), IITP & KOTIS | *2019* |
| Best Paper Award (Korea Society for Innovation Management & Economics Paper Competition) | *2019* |
| Academic Top Scholarship for Seniors, HGU | *2019* |
| Academic Excellence Scholarship for Juniors, HGU | *2018* |
| Academic Excellence Scholarship for Sophomores, HGU | *2017* |
| Academic Excellence Scholarship for freshmen, HGU | *2016* |

## CONFERENCES

[1] Yongshin Kim, Panyu Zhang, Gyuwon Jung, Heepyung Kim, Uichin Lee, "*Causal Analysis of Observational Mobile Sensor Data: A Comparative Study*", Korea Computer Congress, 2021 Spring Conference, Jeju Island, Korea (2021)

[2] Haejun Jung, Yongshin Kim, Doohee Chung, "*The Effect of Intellectual Property-Based Startups on Employment*", Korea Technology Innovation Society, 2019 Fall Conference, Jeju Island, Korea (2019) – Best Paper Award

[3] SeungLin Yang, Yongshin Kim, Doohee Chung, "*Nonlinear Relationship Between Technological Entrepreneurship and National Competitiveness: The Moderation Effect of Innovation-driven Economy*", Korea Society for Innovation Management & Economics, 2019 Spring Conference, Daejeon, Korea (2019) – Best Paper Award

## COMPUTER SKILLS

Python(Intermediate), R(Intermediate), SPSS(Intermediate), Excel(Intermediate), STATA(Basic), AMOS(Basic), SAS(Basic)