Curriculum Vitae : JongHyuk Kim

Master Student
Department of Digital Health
SAIHST (Samsung Advanced Institute for
Health Sciences & Technology)
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EDUCATION

Aug. 2019 - Present	**Sungkyunkwan University** *M.S. in Digital Health*	Seoul, Korea
Mar. 2013 - Aug. 2019	**Sungkyunkwan University** *B.S. in Statistics,* *B.K. in Sports Science*	Seoul, Korea

WORK EXPERIENCE

May. 2019- Aug. 2019	**Smart Health Lab,** Research office of diverse academic backgrounds Intern – Data ETL(Extraction, Transformation, Loading) from Clinical Data Warehouse and analyze	Seoul, Korea
June. 2018 - Aug. 2018	**SungSung,** Startup Company: Inbound Travel Agency Intern – Financial Management and Incentives	Seoul, Korea
Sep. 2015 - Aug. 2016	**H&H,** Startup company delivering nursing homes platform *Co-founder* - Supervised overall affairs of the company as a co-founder, including project management and external cooperation - Implemented research concerning nursing homes and related businesses for the purpose of conducting customized marketing activities - Conducted analysis about the location and density distribution of nursing homes, using data analytics capabilities	Seoul, Korea

RESEARCH INTERESTS

- Data Visualization; Explorer Data Analysis and Modeling
- Statistical Modeling; Clinical Predictive Modeling
- Data Mining; Machine Learning; Digital Healthcare

RECENT PUBLICATIONS

- Cho, Y.S., K.W. Cho, C.J. Park, K. Kim, Y.-K. Kim, H.-J. Kim, B.H. Cho, W.-H. Chung (2020) Automated Measurement of Hydrops Ratio from MR Images in the Patients with Ménière's Disease Using CNN-based Segmentation. *Scientific Reports*, 10(1):7003. (SCI, IF: 4.122). 2020-04-24

- (tentative Thesis Title) Comprehensive Study on Association between Body Mass Index and Amyloid PET Positivity in Patients with Amnestic Mild Cognitive Impairment, Alzheimer's disease dementia using Longitudinal Big Data

ACADEMIC PRESENTATION

- – "Prediction of conversion to dementia in subjects with amnestic mild cognitive impairment with interpretable machine learning" Presented at the *Korean Society of Artificial Intelligent in Medicine Fall Conference*, Seoul, South Korea, October 23, 2020 (Presenter: JongHyuk. Kim).

EXTRACURRICULAR ACTIVITIES

Jan. 2021 –
Jan. 2021

OPENLAB, Kyung Hee University
Tutoring for undergraduate students
-Analyze data mining with R programming

Online, Korea

Mar. 2020 -
Jan. 2021

CATCH, JINHAK
Mentoring for job seeker
-Analyze data mining with R and Python programming

Online, Korea

Aug. 2018 -
June. 2019

PSAT, Sungkyunkwan University Society of Statistic Analyzing
Team Leader
-Conducting a study of major theories and analysis techniques for data analysis

- Understood the fundamental differences between frequentist and bayesian approaches, two perspectives on probabilities in statistics.
- Learned about linear algebra, which is the language of machine learning.

Seoul, Korea

Dec. 2017 -
Feb. 2018

Big Data DB Administrator, Samsung SDS Multi-Campus learning course
Team Leader

-Participated in data analyzing projects concerning real-world cases to improve analytical ability, using various data sources such as;

- Flight departure delay data
- Late-night bus route data

- Garnered overall knowledge regarding big data management by participating in DB administration and map-reduce architecture design courses

Seoul, Korea

Jun. 2017 -
Sep. 2017

Sports Big Data Specialist, Korea Sports Promotion Foundation learning course
Team Leader

- Collected structured and unstructured data from sporting events using tools for data collection
- Analyzed contents of soccer games by applying methodology of sports coding analysis
- Led technical part of overall project as a team leader, determining which statistical analytics method to apply to each sporting site, such as;

- Pattern analysis for a badminton match
- Regression analysis for cycle racing ranking prediction models

Seoul, Korea

HONORS AND AWARDS

- – The Korean Society of Artificial Intelligent in Medicine Fall Conference

SKILLS & OTHERS

Languages   Fluent in English, Native in Korean
Skills   Proficient in Microsoft Office Suite and R, Python and Basic level in SQL
Interests   Tennis, Golf, Marathon, and Football