JAE HO CHANG

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2305-2104, 336, Buram-ro, Namyangju-si, 12104, South Korea

EDUCATION

M.A. in Applied Statistics

Mar 2018 – Feb 2020 Seoul, South Korea

Konkuk University

· Thesis title: The Sparse High-Dimensional Linear Discriminant Analysis with Moderately Clipped LASSO

- Thesis advisor: Dr. Sunghoon Kwon

- Academic advisor: Dr. Kyusang Yu

B.A. in Applied Statistics

Mar 2012 – Feb 2018

Seoul, South Korea

Konkuk University

· Cumulative major GPA: 4.31/4.50

· Served in Republic of Korea Army from Feb 2014 to Nov 2015

ACADEMIC AWARD

Poster awards May 25, 2019

2019 Spring Conference Korean Statistical Society

· Honorable mention awarded for the poster presentation of *Ultimate sharpening of Jensen's Inequality*

TECHNICAL SKILL

Programming Languages bash, R, Python

Domain-specific Languages HTML, SQL, Latex

Softwares Conda, PyCharm, docker, git, SPSS

Platforms AWS, GCP

TEACHING EXPERIENCE

Part-time Lecturer Jul 2020 – Oct 2020

GS Engineering & Construction

Seoul

- · Elementary statistics: population, parameters, random variables, discrete and continuous types, expectation, sample distribution, hypothesis testing, simple and multiple linear regressions
- · SPSS tutorials and practices

Teaching Assistant Mar 2018 – Dec 2019

Department of Applied Statistics, Konkuk University

Seoul

- · Computer programming:
 - *Regressions Analysis
 - [†]Theory of Likelihood Functions, Skew Normal and Related Distribution Families, Nonparametric Function Estimation
- · Quizz marking:
- *Mathematical Statistics

[†]Graduate courses

^{*}Undergraduate courses

WORK EXPERIENCE

ML Engineer Sep 2020 – Dec 2020

Real Data Seoul

- · Collaboration project on developing a self-driving vehicle module
- · Was responsible for: image augmentation, image denoising, and training object detection model using CUDA and PyTorch

Freelancer May 2020 – Oct 2020

- · Tutoring:
- Statistics and theories for graduate students
- Tutorials for using statistical softwares and programming languages
- · Statistical Consulting:
- (2020). Analysis of Performance Factors of KLPGA and LPGA Players, and Prediction of Winners. Journal of the Korean society for Wellness.
- (2020). The Longitudinal Analysis of the Performance Factors Affecting the Korean Ladies Professional Golfer's Prize Money: Using Data from 2010 to 2019. Journal of Golf Studies.
- (2020). A Case Study on Villagers' Participation and Project Achievement in Rural Development. Journal Of The Korean Society Of Rural Planning.

Assistant Researcher Jun 2018 – Sep 2018

SK C&C, Korea University Medical Center

Seoul

- · Contributed to developing antibiotics recommendation system for the antibiotics stewardship:
 - Created predictive models for two major types of multi-drug resistant(MDR) diseases
 - Data cleansing and wrangling
 - Fitted classification models to predict the risk of each patient's MDR type
- Built a Flask API to serve predictive models to the client

Head Research Assistant Mar 2018 – Dec 2019

Statistical Consulting Office at Konkuk University

Seoul

- · Worked as the head research assistant: communication, data analysis, reporting
- · A Meta-Analysis of the Stress Reaction Effect of Aromatherapy (Doctoral thesis in Art & Design, April 2018)
- · A survey on the satisfaction of Korean traditional dessert classes (Korea Cultural Heritage Foundation, December 2018)

ACADEMIC WORKS

Papers 2018 – Present

- · Chang, J., Moon, H. & Kwon, S. (2021) High-dimensional Linear Discriminant Analysis with Moderately Clipped LASSO. *Communications for Statistical Applications and Methods*, 28(1), 21-37.
- · Lee, S., Chang, J. & Kim, H. (2018) *Ultimate sharpening of Jensen's Inequality*. [manuscript submitted for publication.] The Department of Applied Statistics, Konkuk University.
- · Lee, H., Chang, J., & Kim, G. (2020). A Study on the Conflict Structure of the Standing Committee through Topic Analysis of the National Assembly Minutes Health and Welfare Committee in the First Half of the 20th National Assembly. *Korean Party Studies Review*, 19(2), 131-167
- · Lee, H., Kim, G., Chang, J. Kim, H. (2020). The Dynamics of Member's Bill Proposal: Health and Welfare Committee of the 20th National Assembly. *Journal of Future Politics*, 10(1), 33-65