

JAE HO CHANG

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EDUCATION

M.A. in Applied Statistics

Mar 2018 – Feb 2020

Konkuk University

Seoul, South Korea

- Thesis title: *The Sparse High-Dimensional Linear Discriminant Analysis with Moderately Clipped LASSO*
- Advisor: Dr. Kyusang Yu
- Co-advisor: Dr. Sunghoon Kwon

B.A. in Applied Statistics

Mar 2012 – Feb 2018

Konkuk University

Seoul, South Korea

- Cumulative major GPA: 4.31/4.50
- Served in Republic of Korea Army from Feb 2014 to Nov 2015

ACADEMIC AWARDS & FUNDING

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*"

Scholarships & Funding

Konkuk University

- Academic Achievement Scholarship on the fulfillment of the top 5% | Fall 2012
- Academic Achievement Scholarship on the fulfillment of the top 5% | Fall 2016
- Research Assistant Scholarships | 2018 – 2019
- Teaching Assistant Scholarships | 2019
- Research Funding | May 2019 – April 2020

TECHNICAL SKILLS

Programming Languages

bash, R, Python

Domain-specific Languages

HTML, SQL, Latex

Softwares

Conda, PyCharm, docker, git, SPSS

Platforms

AWS, GCP

EXPERIENCE

Teaching

2018 – 2020

Konkuk University, GS Engineering & Construction

Seoul

- R, Python teaching and seminars for undergraduate and graduate students
- Teaching assistant for undergraduate mathematical statistics courses: marked quizzes
- Programming assistant for an undergraduate regression analysis course
- Lectures on the Statistics and SPSS for the Department of Human Resources
- Lectures on Bayesian AB testing, computational programming in R for graduate students

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 real-time object detection model using CUDA and PyTorch

Assistant Researcher

Jun 2018 – Sep 2018

*SK C&C, Korea University Medical Center**Seoul*

- Statistical inference and selecting risk factors for two major Multi-Drug Resistance(MDR) types(MRSA, VRSA)
- Data cleansing and wrangling; data visualization
- Client service via RESTful API in Python

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.
 - Relevant keywords: Jensen's Inequalities, real analytic functions, moment generating function, information entropy
- 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
 - Relevant keywords: corpus analysis, natural language processing, topic model, Latent Dirichlet Allocation
- 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
 - Relevant keywords: Poisson regression, variable transformation