Jaehyuk Kim

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EDUCATION

Korea University: College of Medicine — Anam-ro, Seongbuk-gu, Seoul
MS, Biostatistics — 03/2022 – 02/2024
Advisor: Hyonggin An
GPA: 4.25/4.5

Hoseo University: College of Humanities and Social Sciences — Hoseo-ro, Asan-Si, Chungnam
BA, Statistics — 02/2016 – 02/2022
GPA: 4.12/4.5, Major GPA: 4.5/4.5

EXPERIENCE

LSK Global Pharma Services — 02/2024 – Present
Statistician at statistics research team

- Analyzed clinical data to assess efficacy and safety, leveraging extensive expertise in clinical statistics.
- Developed detailed analysis plans and executed data analyses, ensuring compliance with CDISC standards for deliverables.
- Generated comprehensive analysis reports and provided statistical consulting across various clinical trials and post-marketing studies.
- Led the development and training of statistical methodologies and strategies, enhancing team capabilities.
- Managed research projects, including the publication of statistical papers, and delivered presentations at conferences and educational sessions.

Korea University Guro Hospital — 03/2022 – 02/2024
Research Assistant at Korea University Guro Hospital Statistical Consultation Office

- This Biostatistics Counseling Office provides a wide range of statistical counseling services in the course of medical science and epidemiological research, including research planning, research design, questionnaire development, data management, statistical analysis, and report preparation.
- Managed statistical analysis requests from 19 physicians over two years, successfully handling 25 diverse projects in areas such as infectious diseases, neurology, and thoracic surgery.
- Gained extensive experience in data cleansing and processing, meeting the detailed requirements of medical residents by utilizing various options within statistical programs.
- Developed problem-solving skills and innovative thinking, transitioning from a purely theoretical researcher to a professional capable of practical applications.

Korea University Biostatistics Laboratory — 03/2022 – 02/2024
Researcher

- Authored 6 Statistical Analysis Plan (SAP) and 2 Statistical Analysis Report (SAR), enhancing understanding and practical analysis skills in clinical trials, including non-inferiority trials and medical device-related studies.
- Applied clinical designs from personal research in practical settings, using R Shiny to implement Randomized Control Trials (RCTs) and new designs on web platforms.
- Created patient allocation tables for research trials (RCTs) using SAS and gained experience in Blinding/Masking operations, which effectively assigned patients to treatment groups and ensured accurate and balanced group distribution in clinical studies.

National Institute of Agricultural Sciences, Rural Development Administration — 06/2021 – 07/2021
Investigation of occupational diseases and injuries of farmers

- Determine the extent of farmwork-related illness and damage among farmers in 2021, and identify farmer demographics and activity characteristics.

Health Insurance Review and Assessment Service, Ministry of Health and welfare — 06/2020
2020 Start-up Competition Using Health and Medical Big Data

- It is intended to develop a mileage calculation model by utilizing income quintile, medical records, disease history, and patient data set, and to provide welfare services based on mileage scores to receive better medical services for the people of Korea.
- Utilization data: income quintile, medical history, personal administration history, patient data set, disease history, etc.

THESIS

Title: Comparison of Performance between Bandit-Based Design and Response-Adaptive Design Utilizing Bayesian Inference in Multi-Arm Clinical Trials for Small Populations such as Rare Diseases

- In this paper, we researched designs that can be used in clinical trials for small populations, such as rare diseases and pediatric diseases. Randomized controlled trials (RCTs), the standard method for clinical trials, are difficult to apply in these populations due to ethical issues, and the limited number of subjects sometimes makes these trials infeasible.

- To respond to these issues, I explored new clinical trial design methods using machine learning techniques. My main research focuses on comparing the Accelerated Thomson sampling design (ATS), the optimal design using Constrained Randomized Dynamic Programming (CRDP), and the Randomized Play the Winner design (RPW), a representative method of response-adaptive design, to RCTs. In addition, I introduced a multi-arm assumption to the CRDP design and compared its performance with existing methods to contribute to efficient clinical trial design.

CERTIFICATIONS

Survey Analyst, Junior / Human Resources Development Service of Korea   09/2020

- Business of establishing a plan for market surveys, polls, etc. to various organizations, such as enterprises, political parties, governments, etc., and conducting surveys, and preparing statistical and analysis reports on the results thereof.

Advanced Data Analytics Semi-Professional / Korea Data Agency   09/2022

- To achieve business goals, various analysis opportunities are discovered based on internal work processes to define analysis goals, and big data analysis tasks to systematize and specify analysis tasks by defining analysis target derivation and analysis result management is performed.

- The requirements for analysis are drawn in detail, the analysis process is designed, and the requirements are defined, modeling, verified and tested, and applied to agree on the requirements with the person in charge.

SQL Developer / Korea Data Agency   09/2022

- For the association between the data model and the SQL syntax, we perform the task of understanding and analyzing the data model based on basic knowledge of the data model, such as entity, attribute, relationship, identifier, and normalization.

COMPUTER SKILLS

Programming Languages	Proficiency:	SAS (5 years), SPSS (5 years), SQL (5 years), R (5 years), Python (3 years)

https://james1verse27.github.io/