Seon Min Kim

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Professional Summary

Health data scientist with a background in biology, pharmaceutical sciences, and regulatory affairs. Experienced in supporting drug development from early research through post-approval, including direct work on IND/BLA submissions and collaboration with CROs and regulatory agencies. Currently focused on applying data-driven methods to inform clinical development, regulatory strategy, and product planning. Passionate about bridging research with real-world application, and interested in how structured tools—like Target Product Profiles—can guide innovation across therapeutics, diagnostics, and digital health.

Key Skills

- **Clinical Trial Documentation** | Regulatory Dossier Review (IND, BLA)
- **Regulatory Strategy (MFDS/FDA)** | Regulatory & Therapeutic Strategy Evaluation
- **Stakeholder Communication** | Data Analysis (EHR, FDA)
- **Data Analysis** | EHR Data, Machine Learning, Deep Learning, Python, R, SQL
- Interest: Regulatory Science, Clinical Documentation, Personalized Medicine, Precision Health, Drug Development, Digital Health

Awards & Hackathons

- 2nd Place – QBI Hackathon on CNN-based Modeling of Ligand Affinity (UCSF, 2025)
Worked on a CNN model that learned patterns from protein binding sites to help predict ligand affinity, using public datasets like ChEMBL and PLINDER.

Education

University of California, San Francisco — **M.S. Health Data Science**
San Francisco, CA | July 2024 – Present
Relevant Courses: Programming for Health Data Science in R, Biostatistical Methods for Clinical Research, Machine Learning in R for the Biomedical Sciences

Yonsei University — **M.S. Industrial Pharmaceutical Sciences**
Incheon, South Korea | Feb 2021 – Feb 2023
Relevant Courses: Big Data Analysis for Health Services Research, Pharmacy Law and Regulatory Affairs, Theory and Practice of Clinical Research

Sogang University — **B.S. Life Science**
Seoul, South Korea | Feb 2016 – Feb 2020

Data Science Projects (coursework)

EHR Data Analysis for Drug Allergy Trends
Analyzed de-identified EHR data to explore relationships between drug allergies, age, and comorbidities. (SQL, Statistical Analysis)

Adverse Drug Reaction Classification
Built Clustering ML model using FDA data to classify ADRs by side effects, supporting safety profiling and data-driven drug evaluation. (R, Classification Models)

Predictive Modeling of Dietary Patterns
Developed KNN model to classify food intake based on demographic factors, applying predictive insights to public health data. (NHANES, Orange Data Mining)

Professional Experience

Regulatory Affairs Specialist
Chong Kun Dang Pharmaceutical | Seoul, South Korea | Jul 2020 – Aug 2024

- Led post-approval amendment strategy and direct communications with MFDS, leveraging regulatory intelligence for efficient issue resolution.
- Collaborated with CROs to prepare Pre-IND documentation for biosimilar development; reviewed clinical trial protocols to ensure strategic alignment.
- Supported IND/BLA submissions through cross-functional coordination, ensuring regulatory compliance and timeline optimization.
- Monitored global regulatory trends (MFDS, FDA), supporting data-driven planning in clinical and market access strategies.

Research Assistant
SNP Genetics, Inc | Seoul, South Korea | Jan 2019

- Collected and analyzed genetic disease data through DNA sequencing and SNP genotyping, utilizing SPSS for statistical analysis and interpretation.

Research Assistant
Plant Gene Regulation Lab, Sogang University | Seoul, South Korea | Jan 2018 – July 2019

- Research supervisor: Professor Byeong-ha Lee; Mentor: Dr. Si-in Yu
- Conducted research on the identification of amino acid differences from Arabidopsis MBF1c from P. alpinum MBF1c under salt stress tolerance.
- Presented research findings through poster presentations at international conferences.