

Seokjin Han

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Education

Seoul National University

M.Sc. in Statistics

Supervisor: Prof. Jaeyong Lee @ Bayesian Statistics Lab.

Thesis: *De Novo Drug Design Using Deep Generative Models*

Seoul, Korea

Mar 2017 — Feb 2019

Seoul National University

B.Sc. in Industrial Engineering & B.Sc. in Statistics, Cum Laude

Minor in Computer Science and Engineering.

Seoul, Korea

Mar 2012 — Feb 2017

Seoul Science High School

High School Diploma

Seoul, Korea

Mar 2009 — Feb 2012

Experience

Vocational

TwelveLabs

ML Research Scientist, ML Modeling Team

Contributed to the development of Marengo, a state-of-the-art video search model.

Seoul, Korea

Dec 2023 — Current

Standigm

AI Scientist, AI-Bio Team

Developed core models of Standigm ASK™, the in-house platform that utilizing various types of biological data (including knowledge graphs and NGS data) with neural networks.

Seoul, Korea

Jan 2019 — Dec 2023

Bayesian Statistics Lab @ Seoul National University

Research Intern

Implemented various stochastic search algorithms for variable selection in Bayesian linear models.

Seoul, Korea

Dec 2015 — Feb 2016

PRND Company

Machine Learning Engineer

Developed a market price prediction service for used cars using Bayesian methods.

Seoul, Korea

Jul 2015 — Aug 2015

Teaching

Statistical Computing and Lab. (326.212)

Teaching Assistant

Instructor: Prof. Joong-Ho (Johann) Won

Seoul National University

Fall 2018

Statistics Concept and Lab. (033.021)

Teaching Assistant

Instructor: Prof. Sinsub Cho

Seoul National University

Spring 2018

Data Mining Methods and Lab. (326.413)

Teaching Assistant

Instructor: Prof. Yongdai Kim

Seoul National University

Fall 2017

Skills

Computer

Programming Languages: Julia, Rust, Python, R

Deep Learning Framework: Flux.jl, PyTorch

Languages

English: Professional working proficiency.

Korean: Native proficiency.

Publications

†: equal contributions, *: corresponding author(s).

Papers

- Minyoung So^{†*}, Soo Jung Park[†], Dongin Kim, **Seokjin Han**, Hee Jung Koo, Taeyong Kim, Min-Gi Shin, Eun Jeong Lee* (2026). Systematic discovery of disease-modifying targets by prediction from knowledge graph-based AI model and experimental validation: Parkinson's disease case. *Computational and Structural Biotechnology Journal*. DOI:10.1016/j.csbj.2025.12.035
- **Seokjin Han**^{†*}, Ji Eun Lee[†], Seolhee Kang, Minyoung So, Jin Hee, Jang Ho Lee, Sunghyeob Baek, Hyungjin Jun, Tae Yong Kim and Yun-Sil Lee* (2024). Standigm ASK™: Knowledge Graph and Artificial Intelligence Platform Applied to Target Discovery in Idiopathic Pulmonary Fibrosis. *Briefings in Bioinformatics*, 25(2). DOI:10.1093/bib/bbae035
- **Seokjin Han**, Jinhee Hong, So Jeong Yun, Hee Jung Koo* and Tae Yong Kim* (2023). PWN: enhanced random walk on a warped network for disease target prioritization. *BMC Bioinformatics*, 24(1). DOI:10.1186/s12859-023-05227-x

Preprint

- Dongin Kim^{†*}, **Seokjin Han**[†], Seong-Hyeuk Nam and Tae Yong Kim (2024). Learning the Relationship Between Variants, Metabolic Fluxes and Phenotypes. *bioRxiv*. DOI:10.1101/2024.03.04.577140

Patents

- **Seokjin Han**, Tae Yong Kim, Hee Jung Koo, So Jeong Yun (2024). Method and System for Searching Target Node Related to Queried Entity in Network. *U.S. Patent Application No. 18/274,416*.
- Hee Jung Koo, **Seokjin Han**, Chiwon Son, Jang Ho Lee, Tae Yong Kim, Chanung Jeong, Jinhan Kim, Sang Ok Song, So Jeong Yun (2022). Method of predicting disease, gene or protein related to queried entity and prediction system built by using the same. *U.S. Patent Application No. 17/297,352*.

Scholarships

Merit-based Scholarship	Fall 2018
Merit-based Scholarship	Spring 2018
Brain Korea 21 Plus	Fall 2017
National Scholarship For Science and Engineering	Fall 2015
The Education and Research Foundation College of Engineering SNU Scholarship	Spring 2015
SNU Development Fund Scholarship	Fall 2014
SNU Development Fund Scholarship	Spring 2014
Merit-based Scholarship	Fall 2013
SNU Development Fund Scholarship	Fall 2012
Superior Academic Performance	Spring 2012

Awards

Honorable Mention @ IoT Innovation Challenge

Korea Electronics Association & Samsung Electronics

Oct 28, 2016

Second Prize @ LG CNS Hacker Camp

LG CNS

Nov 22, 2014

Certification

Engineer Information Processing

Human Resources Development Service of Korea

Nov 18, 2016