

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 2.7, 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

- **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

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

Awards

Honorable Mention @ IoT Innovation Challenge <i>Korea Electronics Association & Samsung Electronics</i>	<i>Oct 28, 2016</i>
Second Prize @ LG CNS Hacker Camp <i>LG CNS</i>	<i>Nov 22, 2014</i>

Certification

Engineer Information Processing <i>Human Resources Development Service of Korea</i>	<i>Nov 18, 2016</i>
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