

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 & 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

Twelve Labs

ML Research Scientist, ML Modeling Team

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

Paper

- **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* (2023). Standigm ASKTM: Knowledge Graph and Artificial Intelligence Platform Applied to Target Discovery in Idiopathic Pulmonary Fibrosis. *Submitted*.
- **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

Patents

- **Seokjin Han**, Tae Yong Kim, Hee Jung Koo, So Jeong Yun. *Method for Searching a Target Node related to a Queried Entity in a Network and System thereof*. Korea Patent No. 1022889570000, Aug 5, 2021.
- Hee Jung Koo, **Seokjin Han**, Chiwon Son, Jang Ho Lee, Tae Yong Kim, Chanung Jeong, Jinhan Kim, Sang Ok Song, So Jeong Yun. *Prediction Method for Disease, Gene or Protein related Query Entity and built Prediction System using the same*. Korea Patent No. 1022252780000, Mar 3, 2021.

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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