

# 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

#### 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

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

### Papers

- **Seokjin Han**<sup>†\*</sup>, Ji Eun Lee<sup>†</sup>, 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<sup>†\*</sup>, **Seokjin Han**<sup>†</sup>, 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

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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

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

## Certification

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