Seokjin Han

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Education

Seoul National University	**Seoul, Korea**
M.Sc. in Statistics	*Mar 2017 — Feb 2019*

Supervisor: Prof. Jaeyong Lee @ Bayesian Statistics Lab.
Thesis: *De Novo* Drug Design Using Deep Generative Models

Seoul National University	**Seoul, Korea**
B.Sc. in Industrial Engineering & B.Sc. in Statistics, Cum Laude	*Mar 2012 — Feb 2017*

Minor in Computer Science and Engineering.

Seoul Science High School	**Seoul, Korea**
High School Diploma	*Mar 2009 — Feb 2012*

Experience

Vocational

Twelve Labs	**Seoul, Korea**
ML Research Scientist, ML Modeling Team	*Dec 2023 — Current*

Standigm	**Seoul, Korea**
AI Scientist, AI-Bio Team	*Jan 2019 — Dec 2023*

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.

Bayesian Statistics Lab @ Seoul National University	**Seoul, Korea**
Research Intern	*Dec 2015 — Feb 2016*

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

PRND Company	**Seoul, Korea**
Machine Learning Engineer	*Jul 2015 — Aug 2015*

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

Teaching

Statistical Computing and Lab. (326.212)	**Seoul National University**
Teaching Assistant	*Fall 2018*

Instructor: Prof. Joong-Ho (Johann) Won

Statistics Concept and Lab. (033.021)	**Seoul National University**
Teaching Assistant	*Spring 2018*

Instructor: Prof. Sinsub Cho

Data Mining Methods and Lab. (326.413)	**Seoul National University**
Teaching Assistant	*Fall 2017*

Instructor: Prof. Yongdai Kim

Skills

Computer

Programming Languages: Julia, Rust, Python, R **Deep Learning Framework**: Flux.jl, PyTorch

Languages

English: Professional working proficiency. **Korean**: Native proficiency.

Publications

Paper

o **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 ASK™: Knowledge Graph and Artificial Intelligence Platform Applied to Target Discovery in Idiopathic Pulmonary Fibrosis. *Submitted.*

o **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

o **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.

o 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

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*