SEOJIN KIM

(+82) 10-9038-2001 seojinkim@kaist.ac.kr github linkedin website

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
M.S. in Artificial Intelligence *Sep. 2024 – Feb. 2027 (Expected)*
- GPA 4.0 / 4.3

Yonsei University Seoul, Korea
B.A. in Applied Statistics & B.S. in Computer Science *Mar. 2020 – Aug. 2024*
- GPA 4.07 / 4.3
- Honors in 2020 spring and 2024 spring semester (awarded to top 10 % of the students)
- Exchange Student in Fall 2022 (@ University of Glasgow, Department of Science and Engineering)

EXPERIENCE

Microsoft Research Asia (MSRA) Beijing, China
Research Intern *Apr. 2026 – Sep. 2026*
- Mentor: Wenxue Cheng
- Research Topic: Agentic AI for Network Analysis

Big Data Analytics & Learning Laboratory (BigDyl) Seoul, Korea & Daejeon, Korea
Undergraduate Researcher & Master's Student Researcher *Feb. 2023 – On-going*
- Advisor: Noseong Park
- Research Topic: Efficient Language Modeling, Time Series Analysis, Recommendation System

GenOn Seoul, Korea
Data Scientist Intern *Dec. 2023 – Feb. 2024*
- Project: AI Banker (LLM Agent) project at Woori Bank
- Skills: Langchain, Natural Language Generation

EcubeLabs Seoul, Korea
Data Analyst Intern *Dec. 2021 – Jan. 2022*
- Project: Haulla call data analysis & referral marketing project
- Skills: Data Analytics with Python

PUBLICATIONS

INTERNATIONAL CONFERENCES (* DENOTES EQUAL CONTRIBUTION.)

Attention Sinks as Spectral Spikes: A Mechanism Analysis of Gated Attention | *NeurIPS 2026*
- ***Seojin Kim****, Yehjin Shin* and Noseong Park*

Global Importance Estimation for KV Cache Eviction | *NeurIPS 2026*
- ***Seojin Kim*** *and Noseong Park*

Q-Delta: Beyond Key–Value Associative State Evolution | *ICML 2026*
- *Sumin Park,* ***Seojin Kim*** *and Noseong Park*

Graph Signal Processing Meets Mamba2: Adaptive Filter Bank via Delta Modulation | *ICLR 2026*
- *Yehjin Shin*,* ***Seojin Kim**** *and Noseong Park*
- ICLR 2026, also appeared at Workshop on Efficient Systems for Foundation Models (ES-FoMo III)

TV-Rec: Time-Variant Convolutional Filter for Sequential Recommendation | *NeurIPS 2025*

- *Yehjin Shin, Jeongwhan Choi,* ***Seojin Kim****, Noseong Park*

Mitigating Over-Smoothing in Mamba2 via Spectral Domain Analysis | *ICML Workshop 2025*

- ***Seojin Kim****, Yehjin Shin* and Noseong Park*
- Workshop on Efficient Systems for Foundation Models (ES-FoMo III)

Addressing Prediction Delays in Time Series Forecasting: A Continuous GRUs Approach with Derivative Regularization | *KDD 2024*

- *Sheo Yon Jhin,* ***Seojin Kim****, Noseong Park*

Long-term Time Series Forecasting based on Decomposition and Neural Ordinary Differential Equations | *IEEE Big Data 2023*

- *Seonkyu Lim*, Jaehyeon Park*,* ***Seojin Kim****, Hyowon Wi, Haksoo Lim, Jinsung Jeon, Jeongwhan Choi, Noseong Park*

Leadership and Extracurriculars

Data Science Lab — Yonsei Univ.
Member / Academic Director — *Dec. 2022 – Feb. 2024*

- Sessions: Perform lectures on Machine Learning & Deep Learning
- Study: NLP, GNN
- Projects: Img2Music Recommendation (Presenter), 3D Image Modeling with NeRF (Team Leader)
- Industry Academic Co-operation: Naver Financial (AutoDQ) (Presenter), Smoretalk (Storyboard Generation, Team Leader)

The 56th Yonsei Student Council — Yonsei Univ.
Member of Media and Contents Department — *Jan. 2021 – Dec. 2021*

- Planned various student events (university festival, freshmen orientation, etc.)
- Produced promotional contents (Youtube Video, posters, SNS contents)

Awards

2023 Yonsei Big Data Analysis Contest — 2nd place

- Served as Main Project Developer
- Project: Verification of AlleyWay Consulting and presentation of Growth Plans with LightGBM

2021 Traditional Culture Youth Startup Idea Contest — TOP 10

- Served as Team Leader
- Project: *Moon-we*: Interactive Matchmaking Platform for Collaboration between Intangible Cultural Properties-Company-Consumer and Crowdfunding Related to Intangible Cultural Properties

Skills

Language Proficiency

- Native in Korean
- Advanced in English (OPIc IH, TOEIC 930, TOEFL iBT 106 (Expired))
- Intermediate in French (DELF B1), Beginner in Chinese

Programming Languages

- Python, PyTorch, Scikit-learn

Certificates

- **SQLD** SQL Developer | *2023*
- **ADSP** Advanced Data Analytics Semi-Professional | *2024*