# Han Joon Byun

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## EDUCATION

**Seoul National University** **Seoul, Republic of Korea**
*PhD in Computer Science and Engineering* Expected Aug 2027
Optimization and Financial Engineering Lab (advisor: Prof Byung-ro Moon)

**Seoul National University** **Seoul, Republic of Korea**
*MS in Computer Science and Engineering* Aug 2024
Optimization and Financial Engineering Lab (advisor: Prof Byung-ro Moon)

**New York University** **New York, USA**
*Bachelor of Science in Mathematics* Sep 2018

## RESEARCH & PROFESSIONAL EXPERIENCE

**Seoul National University** **Seoul, Republic of Korea**
*Research Collaborator — Commissioned Research Projects* *2022–2026*

- Agency for Defense Development (2026)
  - Contributed to interpretable-model research.
- PFCT (2025)
  - Developed a default-prediction model using tabular Transformers.
- Think Pool (2022–2024)
  - Developed AI-driven financial factors for quantitative finance.

*Head Teaching Assistant* *2023–2026*

- Data Structures: Spring 2023, Fall 2024 and 2025; Algorithms: Fall 2023, Spring 2025 and 2026.
- Prepared course materials, supported students, coordinated TAs, and graded coursework and exams.

**Republic of Korea Air Force** **Daegu, Republic of Korea**
*Interpretation Officer (First Lieutenant)* *June 2019 – May 2022*
Aircraft Technical Information Division, Air Force Logistics Command

## PUBLICATIONS

- Han Joon Byun, Joon Huh, Jieun Yook, and Byung-Ro Moon. Multi-Objective Evolution of Patch Tokens for Tabular Transformers. GECCO 2026.
- Han Joon Byun, Jieun Yook, Hanbin Koo, and Byung-Ro Moon. Evolutionary Feature Construction for Tabular Transformers via Gradient-Enhanced Attention Rollout. GECCO Companion 2026.
- Joon Huh and Han Joon Byun. Label-Noise Decay Confounds Loss-Based Drift Attribution: A False-Positive Channel and a Noise-Aware Diagnostic. TMLR 2026.
- Ha Hyun Cho, Han Joon Byun, Min Kee Kim, Joon Huh, and Byung-Ro Moon. Evolutionary Pruning of Deep Convolutional Networks by a Memetic GA with Sped-Up Local Optimization and GLCM Energy Z-Score. GECCO Companion 2023.