

EDUCATION	<b>New York University</b>	New York, USA
	<i>Ph.D. Student in Computer Science</i>	Sep 2025 - Present
	• Advisor: Prof. Julia Stoyanovich	
	<b>Korea University</b>	Seoul, Korea
	<i>M.S. in Mathematics (Applied Mathematics)</i>	Mar 2024 - Aug 2025
	• Advisor: Prof. Seungsang Oh	
	• GPA: 4.00/4.00 (Integrated B.S./M.S. Program)	
	<b>Korea University</b>	Seoul, Korea
	<i>B.S. in Mathematics, B.E. in Computer Science and Engineering</i>	Mar 2020 - Feb 2024
	• GPA: 3.76/4.00, Great Honor (Magna Cum Laude)	

- PUBLICATIONS
1. S. Lee, S. Choi, T. Kang, S. Chung, S. Han, J. Seo, S. Oh, and I.-Y. Kwak, *iWAX: Interpretable Wav2vec-AASIST-XGBoost Framework for Voice Spoofing Detection*, Scientific Reports.
  2. S. Chung, H. Kim, S. Lee, S. Lee, and S. Oh, *Honeycomb-lattice monomer-dimer mixtures*, Journal of Statistical Physics.
  3. J. Kim\*, S. Lee\*, S.M. Ahn, G. Choi, B.-K. Je, B.J. Park, Y. Cho, and S. Oh, *Deep Learning Model Using Cross-sequence Learning to Identify Orbital Fractures in Radiographs of Patients Under 20 Years*, Frontiers in Bioengineering and Biotechnology. (\*: equal contribution)
  4. S. Han\*, J. Seo\*, S. Choi, T. Kang, S. Chung, S. Lee, S. Park, S. Oh, and I.-Y. Kwak, *Enhancing voice spoofing detection in noisy environments using frequency feature masking augmentation*, Engineering Science and Technology, an International Journal. (\*: equal contribution)
  5. S. Lee\*, N. Jeong\*, J. Je\*, and S.-Y. Lee, *BCCP: An MLOps Framework for Self-cleansing Real-Time Data Noise via Bayesian Cut-off-based Closest Pair Sampling*, IEEE International Conference on Artificial Intelligence x Data & Knowledge Engineering 2024. (\*: equal contribution)
  6. S. Choi, S. Chung, S. Lee, S. Han, T. Kang, J. Seo, I.-Y. Kwak, and S. Oh, *TB-ResNet: Bridging the gap from TDNN to ResNet in Speaker Verification with Temporal-Bottleneck Enhancement*, ICASSP 2024.
  7. S. Lee\*, Y. Cho\*, Y. Ji, M. Jeon, A. Kim, B.-J. Ham\*, and Y.Y. Joo\*, *Multimodal integration of neuroimaging and genetic data for the diagnosis of mood disorders based on computer vision models*, Journal of Psychiatric Research. (\*: equal contribution)
  8. S. Lee, S.H. Hwang, S. Oh, B.J. Park, and Y. Cho, *Multi-input Vision Transformer with Similarity Matching*, MICCAI PRIME Workshop 2023.

- PREPRINTS
1. S. Lee, K. Lee, S. Bae, S. Lee, S. Lee, I.-Y. Kwak, and S. Oh, *Table2Image: A Lightweight Framework for Enhanced Tabular Data Classification with Image Transformation*
  2. S. Lee, G. Yang, and Y. Cho, *CurvUNet: Curvature-Informed UNet for Enhanced Medical Image Segmentation*
  3. S. Lee, S. Chung, S. Lee, and S. Oh, *Counting perfect matchings in torus grid graphs*

RESEARCH EXPERIENCE	<b>Center for Responsible AI, New York University</b>	New York, USA
	<i>Graduate Research Assistant</i>	Sep 2025 - Present
	<ul style="list-style-type: none"> <li>• Advisor: Prof. Julia Stoyanovich</li> </ul>	
	<b>Department of Mathematics, Korea University</b>	Seoul, Korea
	<i>Graduate Research Assistant</i>	Apr 2023 - Aug 2025
	<ul style="list-style-type: none"> <li>• Advisor: Prof. Seungsang Oh</li> <li>• Designed interpretable tabular data classification and voice spoofing detection</li> </ul>	
	<b>Department of Radiology, Korea University Anam Hospital</b>	Seoul, Korea
	<i>Undergraduate Research Intern</i>	Apr 2022 - Mar 2023
	<ul style="list-style-type: none"> <li>• Advisor: Prof. Yongwon Cho</li> <li>• Proposed interpretable models for pediatric imaging and geometry-aware segmentation</li> </ul>	
	<b>Institute of Data Science, Korea University</b>	Seoul, Korea
	<i>Undergraduate Research Intern</i>	Nov 2021 - Mar 2022
	<ul style="list-style-type: none"> <li>• Advisor: Prof. Yoonjung Yoonie Joo and Prof. Yongwon Cho</li> <li>• Designed multimodal fusion models using medical imaging and genomic data for psychiatric disorder diagnosis</li> </ul>	
WORK EXPERIENCE	<b>SCIEN</b>	Ulsan, Korea
	<i>Data Scientist &amp; Engineer Intern</i>	Jul 2024 - Aug 2024
	<ul style="list-style-type: none"> <li>• Developed pill efficacy ML, DL models with Handok Pharmaceuticals</li> </ul>	
TEACHING EXPERIENCE	<b>Department of Mathematics, Korea University</b>	Seoul, Korea
	<i>Teaching Assistant</i>	Mar 2024 - Aug 2025
	<ul style="list-style-type: none"> <li>• Topology I (MATH 333) &amp; Deep Learning Math (MATH 391)</li> </ul>	
	<b>Korea Human Resource Development Institute for Health &amp; Welfare</b>	Seoul, Korea
	<i>Teaching Assistant</i>	Aug 2022 - Nov 2022
	<ul style="list-style-type: none"> <li>• Guided a medical AI project on CT-free orthopedic diagnosis using DRR and X-ray segmentation</li> <li>• Evaluated final competition entries</li> </ul>	
MENTORING EXPERIENCE	<b>Seunghyun Lee</b>	
	<i>Co-supervised with Prof. Seungsang Oh</i>	Mar 2025 - Present
	<ul style="list-style-type: none"> <li>• Undergraduate student in Industrial Management Engineering and Mathematics at Korea University. Suppressive Dropout (ongoing research project).</li> </ul>	
TECHNICAL SERVICES	<b>Photorage</b>	Seoul, Korea
	<i>Technical advisor</i>	Sep 2023
	<ul style="list-style-type: none"> <li>• Provided technical guidance on image generation and recommendation systems for a photo storage app at a startup</li> </ul>	

AWARDS AND HONORS	• School of Engineering Fellowship, New York University (NYU)	Sep 2025 - Aug 2026
	• Teaching & Research Assistant Scholarship, Korea University (KU)	Mar 2024 - Aug 2025
	• Scholarship for Integrated B.S./M.S. Program Students, KU	Mar 2024 - Aug 2025
	• Scholarship for Veritas Program (REU, College of Informatics, KU)	Fall 2023
	• Scholarship for Veritas Program (REU, College of Science, KU)	2023
	• Samsung SDS Scholarship	2020 - 2023
	• Dean's List (College of Science, KU)	Fall 2020
	• Semester High Honors, KU	2020 - 2023

LANGUAGES	Korean (native), English (fluent), Spanish (intermediate), Chinese (intermediate)
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