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Jaewoo Jeong

Vocational Timeline

23.03 - Korea Advanced Institute of Science and Technology,

Doctoral Candidate in Mechanical Engineering.

Advisor: Prof. Kuk-Jin Yoon

21.03 – 23.02 Korea Advanced Institute of Science and Technology,

Masters of Science in Mechanical Engineering, GPA – 4.01/4.30.

Advisor: Prof. Jungchul Lee

Thesis: Computer vision-based analysis for high temperature annealing and dropwise

condensation

19.05 – 20.12 KATUSA, Republic of Korea Army

-Served the Korean army for 19 months as a mandatory service

15.09 – 18.12 University of Minnesota-Twin Cities,

Bachelor of Mechanical Engineering, GPA - 3.75/4.00

Dean's list: 2015 Fall, 2016 Spring, 2017 Spring, 2017 Fall, 2018 Spring.

Research Area

- Motion Prediction and Planning
- ◆ Multi-modal LLM

Publications (Computer Vision)

ICCV 2025 Interaction-Merged Motion Planning: Effectively Leveraging Diverse Motion

★ Highlight Datasets for Robust Planning

G. Lee*, W. Jeong*, D. Park, J. Jeong, K. Yoon

* denotes equal contribution

IROS 2025 Non-differentiable Reward Optimization for Diffusion-based Autonomous Motion

Planning

G. Lee*, D. Park*, J. Jeong*, K. Yoon

* denotes equal contribution

CVPR 2025 Multi-modal Knowledge Distillation-based Human Trajectory Forecasting / Code

J. Jeong, S. Lee, D. Park, G. Lee, K. Yoon

CVPR 2024 Multi-agent Long-term 3D Human Pose Forecasting via Interaction-aware

★ Highlight Trajectory Conditioning / Code, Project Page

J. Jeong*, D. Park*, K. Yoon

* denotes equal contribution

- CVPR 2024 T4P: Test-Time Training of Trajectory Prediction via Masked Autoencoder and Actor-specific Token Memory / Code
 - D. Park, J. Jeong, S. Yoon, J. Jeong, K. Yoon
- AAAI 2024 Improving Transferability for Cross-domain Trajectory Prediction via Neural Stochastic Differential Equation / Code
 - D. Park, **J. Jeong**, K. Yoon

Publications (Manufacturing)

2023 Near-infrared inspection and machine learning-based prediction for semiconductor membrane cavity structures

M. G. Jeong, J. Jeong, T. Kim, B. J. Lee and J. Lee

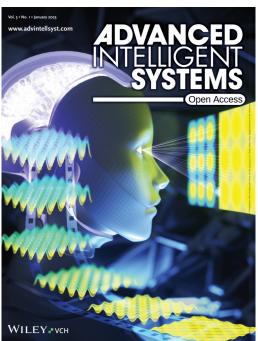
IEEE-Nano/Micro Engineered and Molecular Systems

2022 Predicting AFM topography from optical microscopes using deep-learning

J. Jeong, T. Kim, B. J. Lee, J. Lee.

Advanced Intelligent Systems, 5, 2200317, IF 7.4.

- Selected as inside back cover
- Featured in multiple medias, including YTN Science Today



- 2022 Simulation of Germanium-on-Nothing cavity's morphological transformation using deep learning
 - **J. Jeong**, T. Kim, J. Lee.

Micro and Nano Systems Letters 10, 22. IF 3.6

2022 PCA-based sub-surface structure and defect analysis for Germanium-on-Nothing using nanoscale surface topography

J. Jeong, T. Kim, B. J. Lee, J. Lee.

Scientific Reports 12, 7205. IF 4.6

2021 Cellular and biomolecular detection based on suspended microchannel resonators J. Ko, **J. Jeong,**, S. Son, J. Lee.

Biomedical Engineering Letters 11, 367–382. IF 4.6

2018 3D Printed Polymer Photodetectors S.H. Park, R. Su, J. Jeong, S. Z. Guo K. Qiu, D. Joung, F. Meng, M. C. McAlpine.

Advanced Materials 30, 1803980. IF 29.4

Awards

- 24.12 **Awardee**, Qualcomm Innovation Fellowship Korea.
- 22.06 **1st place**, *KAIST-UNIST quantitative investment competition*.
 -Slim timeframe momentum investing with statistical augmentation / Code
- 21.11 Outstanding paper award, *Micro Nano Systems Conference*. J. Jeong, T. Kim, B. J. Lee, J. Lee
- 21.11 **Bronze Award**, *KSME-SEMES Open Innovation Challenge*. J. Lee, M. G. Jeong, T. Kim, **J. Jeong**, B. J. Lee
- 17.06 17.08 **UROP Scholarship**, *University of Minnesota*, Advisor: Prof. Michael McAlpine. -3D printing polymer photodetectors
- 15.09 18.12 **Global Maroon Scholarship**, *University of Minnesota*.

Teaching Experience

- 25.3 **Teaching Assistant, ME 40059: Introduction to Computer Vision**Dept. of Mechanical Engineering, KAIST
- 22.1, 23.1 **Teaching Assistant, Korean Camp**School of Digital Humanities and Computational Social Sciences, KAIST

Academic Service

Reviewer

2024: IEEE Internet of Things Journal

2025: ICCV, IROS, NeurIPS

2026: AAAI

Skills

Programming Languages

C, C++, Python

Deep Learning Frameworks

PyTorch

Languages

Korean (Native), English (Native)

Extracurricular Activities

22.3 - 22.12 Vocalist, HUG @ KAIST

- 16.09 17.09 Vocalist, Sentimental Sounds @ UMNTC
- 15.12 18.12 Captain, FC Green @ UMNTC
- 15.09-16.12 Board Member, Korean-American Scientists and Engineers Association (KSEA) @ UMNTC