

# Jaewoo Jeong

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## 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

- ◆ Human Motion Prediction and Generation
- ◆ Multi-modal LLM

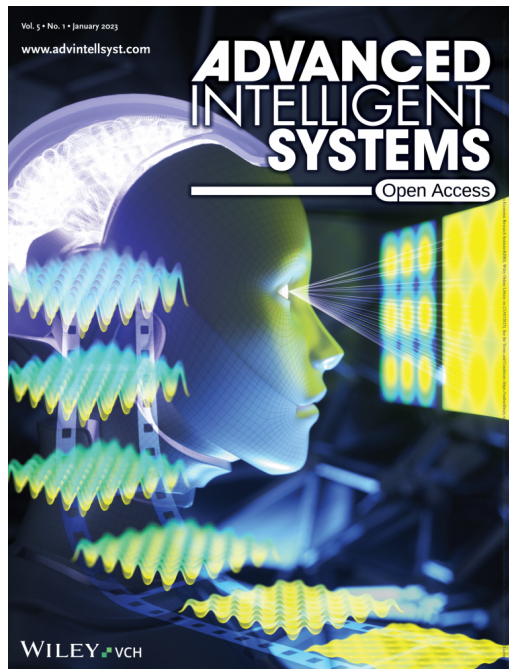
## Publications (Computer Vision)

5. Non-differentiable Reward Optimization for Diffusion-based Autonomous Motion Planning  
G. Lee\*, D. Park\*, **J. Jeong\***, K. Yoon / **IROS 2025**  
\* denotes equal contribution
4. Multi-modal Knowledge Distillation-based Human Trajectory Forecasting / [Code](#)  
**J. Jeong**, S. Lee, D. Park, G. Lee, K. Yoon / **CVPR 2025**
3. Multi-agent Long-term 3D Human Pose Forecasting via Interaction-aware Trajectory Conditioning / [Code](#), [Project Page](#)  
**J. Jeong\***, D. Park\*, K. Yoon / **CVPR 2024 Highlight (2.8% of submitted)**  
\* denotes equal contribution
2. 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 / **CVPR 2024**

1. Improving Transferability for Cross-domain Trajectory Prediction via Neural Stochastic Differential Equation / [Code](#)  
D. Park, **J. Jeong**, K. Yoon / **AAAI 2024**

## Publications (Manufacturing)

6. 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 / **NEMS 2023**
5. Predicting AFM topography from optical microscopes using deep-learning  
**J. Jeong**, T. Kim, B. J. Lee, J. Lee.  
***Advanced Intelligent Systems***, 5, 2200317 (2022), **IF 7.4**.
  - Selected as inside back cover
  - Featured in multiple medias, including YTN Science Today



4. 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 (2022). **IF 3.6**
3. 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 (2022). **IF 4.6**
2. Cellular and biomolecular detection based on suspended microchannel resonators  
J. Ko, **J. Jeong**, S. Son, J. Lee.  
***Biomedical Engineering Letters*** 11, 367–382 (2021). **IF 4.6**

1. 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 (2018). **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

## Skills

### Programming Languages

C, C++, Python

### Deep Learning Frameworks

PyTorch

### Languages

Korean (Native), English (Native)