

Jungho Lee

PH.D CANDIDATE

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RESEARCH INTERESTS

Human Motion Analysis

- Human Avatar Generation
- Skeleton-based Action Recognition

Neural View Synthesis

- Neural Radiance Fields
- 3D Gaussian Splatting

Mathematical Machine Learning Tool

- Neural Ordinary Differential Equations

EDUCATION

Yonsei University | College of Engineering

INTERATED M.S./PH.D IN ELECTRICAL AND ELECTRONIC ENGINEERING

- Image and Video Pattern Recognition Lab.
- Advisor: Prof. Sangyoun Lee

Seoul, South Korea

Sep. 2021 - Aug. 2026 (Expected)

Yonsei University | College of Engineering

B.S. IN ELECTRICAL & ELECTRONIC ENGINEERING

- 2-Year Military Service (2017-2019)

Seoul, South Korea

Mar. 2015 - Aug. 2021

RESEARCH EXPERIENCE

NAVER Cloud

RESEARCH INTERN

- 3D Scene Representation from Defocused Images
- 3D Human Avatar Generation
- Mentor: Ho-Deok Jang

Seongnam, South Korea

Aug. 2024 - Feb. 2025

PUBLICATIONS

First-Author Papers

CoMoGaussian: Continuous Motion-Aware Gaussian Splatting from Motion-Blurred Images

2025

JUNGHOO LEE, DONGHYEONG KIM, DOGYOON LEE, SUHWAN CHO, MINHYEOK LEE, WONJOON LEE, TAEHO KIM, DONGYOON WEE, SANGYOUN LEE

Submitted to *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*

CoCoGaussian: Leveraging Circle of Confusion for Gaussian Splatting from Defocused Images

2025

JUNGHOO LEE, SUHWAN CHO, TAEHO KIM, HO-DEOK JANG, MINHYEOK LEE, GEONHO CHA, DONGYOON WEE, DOGYOON LEE, SANGYOUN LEE

Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition (CVPR)

SMURF: Continuous Dynamics for Motion-Deblurring Radiance Fields

2025

JUNGHOO LEE, DOGYOON LEE, MINHYEOK LEE, DONGHYEONG KIM, SANGYOUN LEE

Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition Workshop (CVPRW)

Hierarchically Decomposed Graph Convolutional Networks for Skeleton-Based Action Recognition

2023

JUNGHOO LEE, MINHYEOK LEE, DOGYOON LEE, SANGYOUN LEE

Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)

Leveraging Spatio-Temporal Dependency for Skeleton-Based Action Recognition

2023

JUNGHOO LEE, MINHYEOK LEE, SUHWAN CHO, SUNGMIN WOO, SUNGJUN JANG, SANGYOUN LEE

Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)

Conference Proceedings

CoCoGaussian: Leveraging Circle of Confusion for Gaussian Splatting from Defocused Images

2025

JUNGHO LEE, SUHWAN CHO, TAEHO KIM, HO-DEOK JANG, MINHYEOK LEE, GEONHO CHA, DONGYOON WEE, DOGYOON LEE, SANGYOUN LEE

Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition (CVPR)

Effective SAM Combination for Open-Vocabulary Semantic Segmentation

2025

MINHYEOK LEE, SUHWAN CHO, JUNGHO LEE, SUNGHUN YANG, HEESEUNG CHOI, IG-JAE KIM, SANGYOUN LEE

Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition (CVPR) - Oral Presentation

SMURF: Continuous Dynamics for Motion-Deblurring Radiance Fields

2025

JUNGHO LEE, DOGYOON LEE, MINHYEOK LEE, DONGHYEONG KIM, SANGYOUN LEE

Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition Workshop (CVPRW)

Video Diffusion Models are Strong Video Inpainter

2025

MINHYEOK LEE, SUHWAN CHO, CHAJIN SHIN, JUNGHO LEE, SUNGHUN YANG, SANGYOUN LEE

The Association for the Advancement of Artificial Intelligence (AAAI)

Guided Slot Attention for Unsupervised Video Object Segmentation

2024

MINHYEOK LEE, DOGYOON LEE, SUHWAN CHO, CHAEWON PARK, JUNGHO LEE, SANGYOUN LEE

Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition (CVPR)

Hierarchically Decomposed Graph Convolutional Networks for Skeleton-Based Action Recognition

2023

JUNGHO LEE, MINHYEOK LEE, DOGYOON LEE, SANGYOUN LEE

Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)

Leveraging Spatio-Temporal Dependency for Skeleton-Based Action Recognition

2023

JUNGHO LEE, MINHYEOK LEE, SUHWAN CHO, SUNGMIN WOO, SUNGJUN JANG, SANGYOUN LEE

Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)

Detection-Identification Balancing Margin Loss for One-Stage Multi-Object Tracking

2022

HEANSUNG LEE, SUHWAN CHO, SUNGJUN JANG, JUNGHO LEE, SANGYOUN LEE

International Conference on Image Processing (ICIP)

Journals

Sparse-DeRF: Deblurred Neural Radiance Fields from Sparse View

2025

DOGYOON LEE, DONGHYEONG KIM, JUNGHO LEE, MINHYEOK LEE, SEUNGHOON LEE, SANGYOUN LEE

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

Treating Motion as Option with Output Selection for Unsupervised Video Object Segmentation

2025

SUHWAN CHO, MINHYEOK LEE, JUNGHO LEE, MYEONGAH CHO, SANGYOUN LEE

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

Multi-Scale Structural Graph Convolutional Network for Skeleton-Based Action Recognition

2024

SUNGJUN JANG, HEANSUNG LEE, WOJIN KIM, JUNGHO LEE, SUNGMIN WOO, SANGYOUN LEE

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

Preprinted Papers

- [Submitted to ICCV] J. Lee, D. Kim, D. Lee, S. Cho, M. Lee, W. Lee, T. Kim, D. Wee, S. Lee. CoMoGaussian: Continuous Motion-Aware Gaussian Splatting from Motion-Blurred Images. *arXiv preprint arXiv:2503.05332*, 2025.
- [Submitted to ICCV] W. Lee, S. Woo, J. Lee, D. Kim, S. Lee. Spurf-GS: View-Consistent Geometry Adaptation for Sparse-View Surface Reconstruction via Gaussian Splatting.
- [Submitted to ICCV] S. Cho, S. Lee, M. Lee, J. Lee, S. Lee. Find First, Track Next: Decoupling Identification and Propagation in Referring Video Object Segmentation. *arXiv preprint arXiv:2503.03492*, 2025.

PATENTS

Domestic Patent

- [P3] Palmprint Recognition Method. KR-Application No.10-2023-0156996, Nov., 2023.
- [P2] Skeleton Graph-based Action Recognition Device and Method. KR-Application No.10-2023-0123693, Sep., 2023.
- [P1] Video Anomaly Detection Apparatus and Method using Relational Embedding. KR-Application No.10-2022-0156968, Nov., 2022.

PROJECTS

Research on Robust Neural Rendering-Based Large-Scale 3D Ultra-Precision Virtual Space Generation and Spatial Registration for Low-Quality Noisy Data

DEEP LEARNING RESEARCHER

- Development of large scene reconstruction by 3D Gaussian Splatting.

National Research Foundation of Korea

May. 2024 - Apr. 2027

Collaborative Perception and Intelligence Framework for Hyper-connected Interaction among Human and Intelligent Things

DEEP LEARNING RESEARCHER

- Development of efficient skeleton-based action recognition model.

Korea Electronics Technology Institute

Apr. 2024 - Dec. 2025

Development of Anti-spoofing Model for Face Recognition Based on RGB Camera

DEEP LEARNING RESEARCHER

- Development of face anti-spoofing model robust to various spoofing attack.

Samsung Electronics

Aug. 2023 - Jul. 2024

Development of Mobile Palmprint Recognition Algorithm

DEEP LEARNING RESEARCHER

- Development of one-stage real-time mobile network, which includes keypoint detection and palmprint recognition.
- Development of real-time Android demo application for palmprint recognition.

Samsung Electronics

Aug. 2022 - Jul. 2023

Deep Learning-Based Initial Identification and Tracking System for Missing Persons in Heterogeneous CCTV Images

DEEP LEARNING RESEARCHER

- Development of real-time multi-object tracking algorithm robust to occluded person.

National Research Foundation of Korea

Oct. 2018 - Dec. 2022

Development of AI Multi-Object Tracking and Behavior Analysis Technology

DEEP LEARNING RESEARCHER

- Development of robust feature extractor for the object detection network.

Hanwha Techwin

Oct. 2020 - Oct. 2021

Professional Services

Journal Reviewer

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| • International Journal of Computer Vision (IJCV) | 2024 |
| • IEEE Transactions on Multimedia (TMM) | 2024 |
| • IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) | 2023 |
| • IEEE Transactions on Neural Networks and Learning Systems (TNNLS) | 2023 |
| • IEEE Transactions on Circuits and Systems for Video Technology (TCSVT) | 2023 |

Conference Reviewer

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|---|------|
| • IEEE/CVF Computer Vision and Pattern Recognition (CVPR) - Outstanding Reviewer (top 5%) | 2025 |
| • Conference on Neural Information Processing Systems (NeurIPS) | 2024 |
| • European Conference on Computer Vision (ECCV) | 2024 |
| • IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) | 2024 |

TEACHING EXPERIENCES

Understanding and Using AI

TEACHING ASSISTANT

Yonsei University
Spring 2022 - Spring 2025

Deep Learning Lab.

TEACHING ASSISTANT

Yonsei University
Spring 2023

Digital Logic Circuit

TEACHING ASSISTANT

Yonsei University
Fall 2021

SKILLS

Research and Development Stacks

- | | |
|-------------------------|-------------------------------|
| Main Languages | Python, C/C++, MATLAB, Kotlin |
| Machine Learning | PyTorch, TensorFlow, Keras |
| Computer Vision | OpenCV |

REFERENCES

Sangyoun Lee Professor, Yonsei University

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