

50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea

■ 2015142131@yonsei.ac.kr | 🔏 Jho-Yonsei.github.io | 🖸 Jho-Yonsei | 🎓 Jungho Lee

RESEARCH INTERESTS_

Human Motion Analysis

- · Human Avatar Generation
- Skeleton-based Action Recognition

Neural View Synthesis

- · Neural Randiance Fields
- · 3D Gaussian Splatting

Mathematical Machine Learning Tool

· Neural Ordinary Differential Equations

EDUCATION

Yonsei University | College of Engineering

Seoul, South Korea

Interated M.S./Ph.D in Electrical and Electronic Engineering Sep. 2021 - Aug. 2026 (Expected)

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

Yonsei University | College of Engineering

Seoul, South Korea

B.S. IN ELECTRICAL & ELECTRONIC ENGINEERING

Mar. 2015 - Aug. 2021

Aug. 2024 - Feb. 2025

• 2-Year Military Service (2017-2019)

RESEARCH EXPERIENCE

NAVER Cloud Seongnam, South Korea

RESEARCH INTERN

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

PUBLICATIONS ____

First-Author Papers

CoMoGaussian: Continuous Motion-Aware Gaussian Splatting from Motion-Blurred Images	2025
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Jungho Lee, Donghyeong Kim, Dogyoon Lee, Suhwan Cho, Minhyeok Lee, Wonjoon Lee, Taeoh 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

JUNGHO LEE, SUHWAN CHO, TAEOH 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 202

JUNGHO 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 202.

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)

May 15, 2025 Jungho Lee · Curriculum Vitae

Conference Proceedings

CoCoGaussian: Leveraging Circle of Confusion for Gaussian Splatting from Defocused Images Jungho Lee, Suhwan Cho, Taeoh 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)	2025
SMURF: Continuous Dynamics for Motion-Deblurring Radiance Fields JUNGHO LEE, DOGYOON LEE, MINHYEOK LEE, DONGHYEONG KIM, SANGYOUN LEE Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition Workshop (CVPRW)	2025
Effective SAM Combination for Open-Vocabulary Semantic Segmentation 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)	2025
Video Diffusion Models are Strong Video Inpainter MINHYEOK LEE, SUHWAN CHO, CHAJIN SHIN, JUNGHO LEE , SUNGHUN YANG, SANGYOUN LEE The Association for the Advancement of Artificial Intelligence (AAAI)	2025
Guided Slot Attention for Unsupervised Video Object Segmentation MINHYEOK LEE, DOGYOON LEE, SUHWAN CHO, CHAEWON PARK, JUNGHO LEE, SANGYOUN LEE Proceedings of the IEEE/CVF Computer Vision and Pattern Recognition (CVPR)	2024
Hierarchically Decomposed Graph Convolutional Networks for Skeleton-Based Action Recognition JUNGHO LEE, MINHYEOK LEE, DOGYOON LEE, SANGYOUN LEE Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)	2023
Leveraging Spatio-Temporal Dependency for Skeleton-Based Action Recognition JUNGHO LEE, MINHYEOK LEE, SUHWAN CHO, SUNGMIN WOO, SUNGJUN JANG, SANGYOUN LEE Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)	2023
Detection-Identification Balancing Margin Loss for One-Stage Multi-Object Tracking HEANSUNG LEE, SUHWAN CHO, SUNGJUN JANG, JUNGHO LEE, SANGYOUN LEE International Conference on Image Processing (ICIP)	2022
Journals	
Sparse-DeRF: Deblurred Neural Radiance Fields from Sparse View Dogyoon Lee, Donghyeong Kim, Jungho Lee, Minhyeok Lee, Seunghoon Lee, Sangyoun Lee IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)	2025
Treating Motion as Option with Output Selection for Unsupervised Video Object Segmentation SUHWAN CHO, MINHYEOK LEE, JUNGHO LEE, MYEONGAH CHO, SANGYOUN LEE IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT)	2025
Multi-Scale Structural Graph Convolutional Network for Skeleton-Based Action Recognition SUNGJUN JANG, HEANSUNG LEE, WOOJIN KIM, JUNGHO LEE, SUNGMIN WOO, SANGYOUN LEE IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT)	2024

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

Apr. 2024 - Dec. 2025

Samsung Electronics

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

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

DEEP LEARNING RESEARCHER Aug. 2023 - Jul. 2024

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

Samsung Electronics

Aug. 2022 - Jul. 2023

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.

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

National Research Foundation of

Korea

DEEP LEARNING RESEARCHER • Development of real-time multi-object tracking algorithm robust to occluded person.

Development of AI Multi-Object Tracking and Behavior Analysis Technology

DEEP LEARNING RESEARCHER

Hanwha Techwin Oct. 2020 - Oct. 2021

Oct. 2018 - Dec. 2022

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

Professional Services

Journal Reviewer

• International Journal of Computer Vision (IJCV)	2024
IEEE Transactions on Multimedia (T-MM)	2024
IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)	2023
• IEEE Transactions on Neural Networks and Learning Systems (T-NNLS)	2023
• IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT)	2023

Conference Reviewer

IEEE/CVF Computer Vision and Pattern Recognition (CVPR)	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 Yonsei University

TEACHING ASSISTANT Spring 2022 - Spring 2025

Deep Learning Lab. Yonsei University

TEACHING ASSISTANT Spring 2023

Digital Locig Circuit Yonsei University

TEACHING ASSISTANT Fall 2021

SKILLS

Research and Development Stacks

Python, C/C++, MATLAB, Kotlin Main Languages Machine Learning PyTorch, TensorFlow, Keras

Computer Vision OpenCV

REFERENCES_

Sangyoun Lee Professor, Yonsei University

syleee@yonsei.ac.kr