Daniel Sungho Jung

PHD CANDIDATE · GRADUATE SCHOOL OF ARTIFICIAL INTELLIGENCE

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Education

Seoul National University   *Seoul, Republic of Korea*
PHD IN ARTIFICIAL INTELLIGENCE   *Mar. 2022 - present*
- Advisor: Prof. Kyoung Mu Lee (Editor in Chief of TPAMI)

The Pennsylvania State University   *University Park, PA, USA*
BS IN STATISTICAL MODELING DATA SCIENCE   *Aug. 2017 - Dec. 2021*
- Advisor: Prof. Dongwon Lee, Prof. Kaamran Raahemifar

Publications

Daniel Sungho Jung, and Kyoung Mu Lee, "Shoe Style-Invariant and Ground-Aware Learning for Dense Foot Contact Estimation", ***ArXiv 2025***.

Daniel Sungho Jung, and Kyoung Mu Lee, "Learning Dense Hand Contact Estimation from Imbalanced Data", *Annual Conference on Neural Information Processing Systems (**NeurIPS**) 2025*.

Jaerin Lee, **Daniel Sungho Jung**, Kanggeon Lee, and Kyoung Mu Lee, "SemanticDraw: Towards Real-Time Interactive Content Creation from Image Diffusion Models", *IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2025*.

Hyeongjin Nam*, **Daniel Sungho Jung***, Gyeongsik Moon, and Kyoung Mu Lee, "Joint Reconstruction of 3D Human and Object via Contact-Based Refinement Transformer", *IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2024*. (∗ equal contribution)

JoonKyu Park*, **Daniel Sungho Jung***, Gyeongsik Moon*, and Kyoung Mu Lee (∗ equal contribution), "Extract-and-Adaptation Network for 3D Interacting Hand Mesh Recovery", *IEEE/CVF International Conference on Computer Vision Workshops (**ICCVW**) 2023*. (∗ equal contribution)

Hyeongjin Nam, **Daniel Sungho Jung**, Yeonguk Oh, and Kyoung Mu Lee, "Cyclic Test-Time Adaptation on Monocular Video for 3D Human Mesh Reconstruction", *IEEE/CVF International Conference on Computer Vision (**ICCV**) 2023*.

Xianghui Xie, Xi Wang, Nikos Athanasiou, Bharat Lal Bhatnagar, Chun-Hao P. Huang, Kaichun Mo, Hao Chen, Xia Jia, Zerui Zhang, Liangxian Cui, Xiao Lin, Bingqiao Qian, Jie Xiao, Wenfei Yang, Hyeongjin Nam, **Daniel Sungho Jung**, Kihoon Kim, Kyoung Mu Lee, Otmar Hilliges, and Gerard Pons-Moll, "RHOBIN Challenge: Reconstruction of Human Object Interaction", *IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (**CVPRW**) 2023*.

Workshops & Challenges

JoonKyu Park*, **Daniel Sungho Jung***, Gyeongsik Moon*, Kyoung Mu Lee. **Oral Presentation** for Extract-and-Adaptation Network for 3D Interacting Hand Mesh Recovery. *CV4Metaverse workshop in conjunction with **ICCV 2023***.

Hyeongjin Nam, **Daniel Sungho Jung**, Kihoon Kim, Kyoung Mu Lee. **The 1st Place Winner** for Joint Reconstruction of Human and Object Track. *The RHOBIN challenge in conjunction with **CVPR 2023***.

Work Experiences

SONY Group Corporation   *Tokyo, Japan*
RESEARCH INTERN   *Apr. 2025 - Jul. 2025*
- Supervisor: Jerry Jun Yokono
- Manager: Sayaka Nakamura
- Mentor: Takuya Ohashi
- Research Area: 3D Human Mesh Reconstruction

Korea Advanced Institute of Science and Technology (KAIST) *Daejeon, Republic of Korea*
VISITING STUDENT RESEARCHER *Jun. 2021 - Aug. 2021*
- Advisor: Prof. Seunghoon Hong
- Mentor: Jinwoo Kim
- Research Area: Graph Neural Network and Transformer model

The Pennsylvania State University *University Park, PA, USA*
UNDERGRADUATE RESEARCH ASSISTANT *Aug. 2019 - Sep. 2020*
- Advisor: Prof. Dongwon Lee
- Research Area: Data Mining in Social Media

Teaching Experiences

Introduction to Robotics (Seoul National University) *Seoul, Republic of Korea*
TEACHING ASSISTANT *Mar. 2024 - Jun. 2024*
- Instructor: Prof. Jinsoo Kim

Introductory Microeconomic Analysis and Policy (The Pennsylvania State University) *University Park, PA, USA*
TEACHING ASSISTANT *Aug. 2018 - May. 2019*
- Instructor: Prof. Austin Boyle

Industrial Collaborations

2025	**Amodal Segmentation and Inpainting of Human with Video Diffusion Model**, Samsung Electronics
2023-2024	**Real-time online action detection for professional table tennis competition broadcasting using 3D human pose and motion**, SNU AI Lab & CloIT
2022-2023	**Detailed 3D human body pose, shape, and motion reconstruction technology for an in-the-wild environment using monocular video**, LG AI Research

Awards, Fellowships, & Grants

2025	**SNU Graduate Student Instructor Scholarship**, Seoul National University	*Full tuition*
2023	**The 1st Place Winner for Joint Reconstruction of Human and Object Track**, The RHOBIN workshop in conjunction with CVPR 2023	*Sponsored by Adobe*
2022-2023	**Artificial Intelligence Graduate School Program Fellowship**, IITP in the Government of Korea (Ministry of Science and ICT)	*Full tuition*
2017-2021	**Penn State Dean's List**, Office of Dean at The Pennsylvania State University	
2021	**IEEE Member of the Month Award**, Penn State IEEE Student Chapter	
2020	**HackPSU Social Justice Award**, College of Engineering, The Pennsylvania State University	

Invited Talks

2025	**Learning Dense Hand Contact Estimation from Imbalanced Data**, SNU IPAI Lunch Seminar

Services

Workshop Co-Organizer

WORKSHOP COMMITTEE

- CV4Metaverse Workshop at CVPR 2025

Technical Program Committee

WORKSHOP COMMITTEE

- CV4Metaverse Workshop at ECCV 2024

Reviewer

CONFERENCE AND WORKSHOP REVIEWER

- CVPR (2026), AISTATS (2026), ICLR (2025-2026), NeurIPS (2024-2025), WACV (2025), CVPRW (2025), ECCVW (2024)

References

Kyoung Mu Lee

ADVISOR

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Gyeongsik Moon

MENTOR

- Affiliation: Assistant Professor at Korea University
- Contact: mks0601@gmail.com
- Webpage: mks0601.github.io