

# Daniel Sungho Jung

PHD CANDIDATE · GRADUATE SCHOOL OF ARTIFICIAL INTELLIGENCE

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## Education

### Seoul National University

PHD IN ARTIFICIAL INTELLIGENCE

- Advisor: Prof. Kyoung Mu Lee (Editor in Chief of TPAMI)

Seoul, Republic of Korea

Mar. 2022 - present

### The Pennsylvania State University

BS IN STATISTICAL MODELING DATA SCIENCE

- Advisor: Prof. Dongwon Lee, Prof. Kaamran Raahemifar

University Park, PA, USA

Aug. 2017 - Dec. 2021

## Publications

**Daniel Sungho Jung**, and Kyoung Mu Lee, "Learning Dense Hand Contact Estimation from Imbalanced Data", *ArXiv* **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

RESEARCH INTERN

- Supervisor: Jerry Jun Yokono
- Manager: Sayaka Nakamura
- Mentor: Takuya Ohashi
- Research Area: 3D Human Mesh Reconstruction

Tokyo, Japan

Apr. 2025 - Jul. 2025

## Korea Advanced Institute of Science and Technology (KAIST)

### VISITING STUDENT RESEARCHER

- Advisor: Prof. Seunghoon Hong
- Mentor: Jinwoo Kim
- Research Area: Graph Neural Network and Transformer model

Daejeon, Republic of Korea

Jun. 2021 - Aug. 2021

## The Pennsylvania State University

### UNDERGRADUATE RESEARCH ASSISTANT

- Advisor: Prof. Dongwon Lee
- Research Area: Data Mining in Social Media

University Park, PA, USA

Aug. 2019 - Sep. 2020

## Teaching Experiences

### Introduction to Robotics (Seoul National University)

#### TEACHING ASSISTANT

- Instructor: Prof. Jinsoo Kim

Seoul, Republic of Korea

Mar. 2024 - Jun. 2024

### Introductory Microeconomic Analysis and Policy (The Pennsylvania State University)

#### TEACHING ASSISTANT

- Instructor: Prof. Austin Boyle

University Park, PA, USA

Aug. 2018 - May. 2019

## 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 Teaching and Research Assistant Fellowship**, 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

## 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

- NeurIPS (2024-), WACV (2025-), CVPRW (2025), ECCVW (2024)

## References

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### Kyoung Mu Lee

#### ADVISOR

- Affiliation: Distinguished Professor at Seoul National University
- Contact: kyoungmu@snu.ac.kr
- Webpage: cv.snu.ac.kr/index.php/kmlee

### Gyeongsik Moon

#### MENTOR

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