

# Yonwoo Choi

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🔗 yc4ny

## Education

### Seoul National University

Mar 2022 – Feb 2024

*M.S in Computer Science and Engineering*

- **Advisor:** Hanbyul Joo
- **Thesis:** A Wrist Mounted Camera System for Hand Pose Estimation from Single RGB Images
- **GPA:** 3.73/4.3
- Coursework: 3D Computer Vision, Multimodal Deep Learning, Advanced Graphics, Advanced Data Mining, Mobile Computing

### University of Virginia

Aug 2019 – May 2021

*B.A in Computer Science*

- **GPA:** 3.77/4.0
- **Coursework:** Data Structures, Algorithms, Computer Architecture, Web Applications, Software Testing, Human Computer Interaction

## Publications

SVAD: From Single Image to 3D Avatar via Synthetic Data Generation with Video  
Diffusion and Data Augmentation

CVPRW 2025

Yonwoo Choi\*

A Wrist Mounted Camera System for Hand Pose Estimation from Single RGB  
Images

M.S Thesis

Yonwoo Choi\*, Hanbyul Joo

## Research Experience

### Research Engineer

Seoul, South Korea

SECERN AI

Mar 2024 – Present

- Alternative military service.
- 3D Vision, Generative AI.
- 1 publication in CVPR Workshop.

### Graduate Researcher

Seoul, South Korea

Visual Computing Lab @ SNU

Oct 2021 – Feb 2024

- 3D hand pose reconstruction, estimation.
- Hand motion capture.

## Technologies

**Languages:** Python, C++, Java

**Research:** PyTorch, PyTorch3D, PyTorch-Lightning, Tensorboard, Weight & Bias, NumPy, OpenCV, Open3D

**Tools:** Blender, Git, Slack, Notion