

Changsoo Jung

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QUALIFICATIONS

- Currently, a Ph.D. student in machine learning for computer vision field
- Familiar with Python, C++, Pytorch, Pytorch-lightning, Pytorch3D, OpenCV
- Training Experiences on large computing system
- Reliable team-player and communication skills
- Ability to work independently

EDUCATION

Ph.D. in Computer Science

Colorado State University, Fort Collins, Colorado

Expected Spring 2025

M.S. in Computer Science

Colorado State University, Fort Collins, Colorado

Spring 2022

GPA 3.96

Courses: Machine Learning, Introduction-Computer Graphics, Image Computation, Big Data

Thesis: [EgoRoom: Egocentric Pose Estimation through Multi-coordinates Heatmaps](#)

B.S. in Computer Science, Minor Mathematics

California State University, Chico, California

Spring 2020

GPA 3.33

RESEARCH

- **Hand Micro-gesture Recognition** *Fall 2022 - Present*
 - Recognizing 49 hand micro-gestures which happens quick on small area
 - Top 1 accuracy is 96.7 % on our synthetic datasets
- **6D Pose for Education** *Summer 2022 - Present*
 - Predicting 6 degrees-of-freedom of small object pose from a 2D image
- **Egocentric Pose Estimation** *Spring 2022*
 - Estimation of 3D body keypoints from an egocentric image which is captured in a fisheye camera
 - Mean Per Joint Position Error (MPJPE) was 40.0 mm (The state-of-the-art result on Jan 2022)

PUBLICATION

- Jung, C. EgoRoom: Egocentric 3D Pose Estimation through Multi-coordinates Heatmaps (Master's thesis, Colorado State University).

PROJECTS

- **Estimation of COVID-19 spread**, BigData at Colorado State University, Fort Collins *Spring 2021*
 - Visualized COVID-19 spread on U.S. map and predicted the spread using Conv3D from the map
- **GolfPose**, Capstone Project at California State University, Chico *Fall 2019*
 - Used Swift, SwiftUI, and CoreML to make an iOS app that allows users to compare their golf postures and professional golfers' postures through a swift model that has been transferred from Tensorflow's PoseNet.

WORK EXPERIENCES / ACTIVITIES

- Graduate Teaching Assistant at Colorado State University
 - Operating Systems *Spring 2022 – Present*
 - Problem Solving with C++ *Fall 2021*
- Undergraduate Teaching Assistant at California State University Chico
 - Programming and Algorithm 1 (Volunteered) *2019*
- Member, Chico Upsilon Pi Epsilon (UPE) Honor Society *2019*
- South Korea Army Service *Oct 2016 – Jul 2018*
 - Squad Leader: Led 9 soldiers and completed 6 military trainings
- Member, Chico ACM *2015 – 2016, 2018 – 2019*
 - Participated North America Regional ACM ICPI competitions *2015, 2018*
- Secretary, Korea Student Association at California State University Chico *2014 – 2015*