# Jungbin Cho

+821046596576 | whwjdqls99@yonsei.ac.kr | Homepage | LinkedIn | GitHub

## Research Interest

Robotics · Computer Vision · Embodied AI · Human Motion Models
My long-term goal is to build a **human foundation model**: an embodied system that perceives, moves, and interacts with its surroundings and with people, whether as a digital human or a humanoid robot.

## Education

**Carnegie Mellon University** — Pittsburgh, PA
*Visiting Scholar (Graduate-level Coursework)* — Aug 2025 – Present
- Coursework: Introduction to Deep Learning, NLP, Large-Scale Media Analysis, Studio Project

**Yonsei University** — Seoul, Korea
*M.S. in Artificial Intelligence (Advisor: YoungJae Yu)* — Sep 2024 – Present

**Yonsei University** — Seoul, Korea
*B.S. in Electrical and Electronic Engineering* — Mar 2018 – Aug 2024
- 2 years of absence due to obligatory military service (2020 - 2022)

## Experience

**CUBE Lab, Carnegie Mellon University** — Pittsburgh, PA
*Visiting Researcher (Advisor: Laszlo A. Yeni)* — Aug 2025 – Present, Full-time
- Conducted research on scene-aware human motion generation and hand–object reconstruction, leading to two submissions.

**MIR Lab, Yonsei University** — Seoul, Korea
*Undergraduate Intern (Advisor: YoungJae Yu)* — July 2023 – June 2024, Full-time
- Contributed to the Real-time Turn-taking Detection for Multi-modal Agents project in collaboration with NCsoft.
- Published a paper on emotional speech-driven 3D facial animation with Hierarchical discrete motion prior.

**GIANTSTEP - VFX & Virtual Production Studio** — Seoul, Korea
*AI Research Intern* — Aug 2023 – June 2024, Part-time
- Developed a speech-driven facial animation system for industry-grade virtual avatars.

## Publications

- **AlignHOI: Hand–Object Reconstruction via Alignment and Refinement**
  Liting Wen, Xin Lv, **Jungbin Cho**, Laszlo A. Jeni, Xiao-Xiao Long
  Under Review (CVPR 2026)

- **SceneAdapt: Scene-aware Adaptation of Human Motion Diffusion**
  **Jungbin Cho**[*], Minsu Kim[*], Jisoo Kim, Ce Zheng, Laszlo A Jeni, Ming-Hsuan Yang, Youngjae Yu
  Under Review (ICLR 2026)

- **DisCoRD: Discrete Tokens to Continuous Motion via Rectified Flow Decoding**
  **Jungbin Cho**[*], Junwan Kim[*], Jisoo Kim, Minseo Kim, Mingu Kang, ..., Tae-Hyun Oh, Youngjae Yu
  ICCV 2025 (**Highlight**)

- **DEEPTalk: Dynamic Emotion Embedding for Probabilistic Talking Heads Generation**
  Jisoo Kim[*], **Jungbin Cho**[*], Joonho Park, Soonmin Hwang, Da Eun Kim, Geon Kim, Youngjae Yu
  AAAI 2025

- **EgoSpeak: Learning When to Speak for Egocentric Conversational Agents in the Wild**
  Junhyeok Kim, Minsoo Kim, Jiwan Chung, **Jungbin Cho**, ..., Youngjae Yu
  NAACL 2025 Findings

- **AVIN-Chat: An Audio-Visual Interactive Chatbot System with Emotional State Tuning**
  Chanhyuk Park*, **Jungbin Cho***, Junwan Kim*, Seongmin Lee, Jungsu Kim, Sanghoon Lee
  IJCAI 2024 Demo

- **VSCHH 2023: A Benchmark for the View Synthesis Challenge of Human Heads**
  Youngkyoon Jang, ..., Hyeseong Kim, **Jungbin Cho**, Dosik Hwang, ..., Stefanos Zafeiriou
  ICCV 2023 Workshop

# Projects

**4D Avatars with Deformable Gaussian Splatting** *GitHub*

- Applied deformable 3D Gaussian Splatting methods along with facial expression prior for better facial reconstruction and controllability

**Text-guided 3D Asset Generating App** *GitHub*

- Implemented text-guided 3D synthesis from the original 3D generation paper GET3D, along with TAPS3D

**Improving Transformer-XL for Music Generation** *GitHub*

- Improved Transformer-XL on generating music on the COMMU Dataset and designed evaluation protocols in collaboration with POZA Labs

**Generating Synthetic Wildfire Datasets with GANs** *GitHub*

- Developed synthetic wildfire dataset generation pipeline in collaboration with ALCHERA

# Extracurricular

**CMU AI Study Club** Pittsburgh, PA
*Robotics Group Core Member* Aug 2024 – Present

- A graduate-focused study group analyzing recent advancements in AI and robotics; organized weekly reviews and discussions of top-tier conference papers.

**Yonsei AI (YAI)** Seoul, Korea
*Club Executive* July 2023 – Mar 2024

- A student-led AI study club that conducts collaborative learning and team projects, including solving applied tasks in partnership with industry.

**Naver Boostcamp AI Tech** Seoul, Korea
*Computer Vision Track* Jan 2022 – June 2022

- An intensive AI program by Naver Connect Foundation with coursework and team projects in deep learning and computer vision.

# Awards and Honors

**AI Excellence Global Innovative Leader Education Fellowship**: USD 40,000 2025

**KPMG 2022 AI competition 1st Place**: USD 7,000 2022

# Skills

**Programming:** C/C++, Python (PyTorch, TensorFlow), C# (Unity)
**Languages:** Korean (Native), English (Proficient, TOEFL: 108)

# Academic Services

**Reviewer:** CVPR'26