

Jungbin Cho

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EDUCATION

Yonsei University

M.S. in Artificial Intelligence

Seoul, Korea

Sep 2024 – Present

Yonsei University

B.S. in Electrical and Electronic Engineering

Seoul, Korea

Mar 2018 – June 2024

RESEARCH INTEREST

My research interest centers on developing virtual environments and digital avatars that can seamlessly interact with humans. To achieve this, I am currently focusing on human motion generation, as well as human scene interaction.

EXPERIENCE

MIR Lab, Yonsei University

Undergraduate Intern

Seoul, South Korea

July 2023 – June 2024, Full-time

- Contributed to the Real-time Turn-taking Detection for Multi-modal Agents project in collaboration with NCsoft
- Worked on a paper on emotional speech-driven 3D facial animation with Temporally Hierarchical discrete motion prior

GIANTSTEP

AI Research Intern

Seoul, South Korea

Aug 2023 – June 2024, Part-time

- Developed a speech-driven facial animation system for virtual avatars

Doctorworks(formerly Probe Medical)

AI Team

Seoul, South Korea

Jan 2023 – July 2023, Full-time

- Designed a system for semi-supervised disease detection for capsule endoscopy

PUBLICATIONS

- **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
Preprint
- **EgoSpeak: Learning When to Speak for Egocentric Conversational Agents in the Wild**
Junhyeok Kim, Minsoo Kim, Jiwan Chung, Jungbin Cho, ..., Youngjae Yu
NAACL2025 (findings)
- **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
- **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, ..., Hyeeseong 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

Yonsei AI (YAI)

Club executive

Yonsei University

July 2023 – Mar 2024

- An AI study club that facilitates the collective pursuit of knowledge among students, fostering collaboration and project development centered on deep learning research.

Boostcamp AI Tech

Computer Vision Track

Naver Connect Foundation

Jan 2022 – June 2022, Full-time

SKILLS

Languages: C/C++, Python (PyTorch, TensorFlow), C# (Unity)

Machine Learning: Motion Generation, Human&Scene Reconstruction, Multi-modal learning

Languages: Korean (Native), English (Proficient, TOEFL: 107)