Jungbin Cho

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EDUCATION

Yonsei University   Seoul, Korea
M.S. in Artificial Intelligence   *Sep 2024 – Present*

Yonsei University   Seoul, Korea
B.S. in Electrical and Electronics Engineering   *Mar 2018 – June 2024*

RESEARCH INTEREST

My research interest centers on building virtual environments and enabling interactions between virtual avatars and real humans in digital spaces. To achieve this, I am currently focused on human motion generation, as well as scene reconstruction and generation.

EXPERIENCE

MIR Lab, Yonsei University   Seoul, South Korea
Undergraduate Intern   *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   Seoul, South Korea
AI Research Intern   *Aug 2023 – June 2024, Part-time*
- Developed a speech-driven facial animation system for virtual avatars

Doctorworks(formerly Probe Medical)   Seoul, South Korea
AI Team   *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

- **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, ..., 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

Yonsei AI (YAI) Yonsei University
Club executive *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 Naver Connect Foundation
Computer Vision Track *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)