

Chanyong Yoon

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EXPERIENCE

• MICV Lab

Undergraduate Intern

January 2024 -
Yonsei University, Korea

- Experienced the atmosphere of an university lab
- Obtained an opportunity to visit conferences held at Korea
- Gained knowledge about graduate study from MS/PhD students
- Learned how to find good recent papers and how to do good research

• Yonsei Artificial Intelligence(YAI)

Member

March 2024 -
Yonsei University, Korea

- Study with people with similar areas of interest
- Read papers and write a review report about it
- Listen to lectures from alumni and professors
- YAI CON: YAI team project on chosen AI topics

EDUCATION

• Yonsei University

Undergraduate: computer science

March 2020 -

Seoul, Korea

• Concordia International School Shanghai

High School student

March 2016 - May 2019

Shanghai, China

PROJECTS

• Prompt-based 3D Object Editing (Temporary)

September 2024

Tools: Pytorch, Cuda, VESSL

- Working as team leader
- 3D object editing by modifying prompts, controlling cross attention maps
- Use recent text-to-3D models
- Utilize VLMs to create various kinds of prompts?
- Use 3D object part segmentation for easier object editing?

• MedSIM with MedSAM

May 2024

Tools: Pytorch, Cuda, WandB

- Worked as team member
- Medical image registration: aligning two medical images into a same coordinate system for comparison
- Medical image registration using MedSAM's encoder
- Learned semantic features without segmentation map using SAM score loss
- Reached SOTA on Dice Score and Jacobian determinant metrics

• Simplified-Query Natural Language Video Localization(SQ-NLVL)

September 2023

Tools: Pytorch, JSON, VESSL, Cuda

- Worked as team member
- NLVL: Given a query and a video, find the video moment that matches that query
- Input incomplete sentences as queries when training the model
- Reached comparable performance as the original model with complete sentence queries

• Holistic Sentiment Analysis On Thematically Irrelevant Sentences

September 2023

Tools: Pytorch, Excel, Hyperclova X

- Worked as team member
- Output overall sentiment analysis of a restaurant review written in paragraph scales

- Utilized Chain of Thought(CoT) and Solo Performance Prompting(SPP) on Naver's Hyperclova X model
- Reached higher accuracy compared to baseline model KoBERT when CoT and SPP were both applied

• DeepFake Detection

September 2022

Tools: Pytorch, Google Colab, Kaggle

- Individual project
- DeepFake detection using various kinds of CNN models
- Used face datasets from Kaggle
- ResNet model with AdaGrad optimizer showed best performance

INTERESTS

- **3D AIGC:** 3D reconstruction, Text-to-3D, 3D editing
- **Multimodal:** Visual Language Models(VLMs), Multimodal LLMs(MLLMs)
- **Medical Imaging:** Medical Image analysis, Medical image registration

SKILLS

- **Programming Languages:** Python, Java, C/C++, HTML/CSS, Javascript, SQL, R, MATLAB
- **Data Science & Machine Learning:** Google Colab, VESSL AI, SSH
- **Other skills:** LaTeX, Zotero, Notion

HONORS AND AWARDS

• Underwood Scholarship

September 2020

Yonsei University

- Scholarship for students with outstanding GPA

• Software Capstone Design(2) Runner-up Award

December 2023

Yonsei University

- Award for teams who received high scores on Software Capstone Design presentations and posters

LEADERSHIP EXPERIENCE

• Team Leader

September 2024-

3D with Diffusion Prior(Temporary)

- Proposed the research topic and potential directions
- Contacted the supervisor and TAs who can help this project
- Contacted industry mentor allocated to our team

ADDITIONAL INFORMATION

Languages: Korean (Mother tongue), English (TOEFL: 113), Chinese (8 years in Shanghai)