

Jiwoo Choi

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Summary

I am a master student majoring in Artificial Intelligence at Yonsei University. I am currently doing research focusing on images and videos. It is interesting to generate something and I am considering safeAI at the same time. My research interests include Generative Models and AI watermarking against GenAI.

Research Interests : Generative Models, AI watermarking (containing Adversarial Watermark)

Education

Yonsei University , MS in Artificial Intelligence	March 2025 – Present
<ul style="list-style-type: none">• Advised by Prof. Seon Joo Kim• GPA: 4.2/4.3 (Complete Semesters: 1)• Coursework: Recent Trends in Computer Vision, Topics in Visual Computing 1, Engineering and Regional Leadership	
Ewha Womans University , BS in Biomedical and Mechanical Engineering	March 2020 – Feb 2025
<ul style="list-style-type: none">• Specialized program in Software Convergence (Double major)• GPA: 3.79/4.3• Led the student body as a freshman student representative• Coursework: Problem Solving and Software Programming, Mechanical Design and Drawing, Thermodynamics, Introduction to Python Programming & Data Analysis, Statistical Learning Theory, Computer Algorithms, Data Structures	
Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen University	March 2023 – August 2023
<ul style="list-style-type: none">• Exchange Program in Computer Science• Coursework: Computer Vision, Reinforcement Learning and Learning-based Control, Machine Learning with Graphs (Foundations and Applications)	

Experience

Research Intern , CIPLAB in Yonsei University – Seoul, Korea	July 2024 – Present
<ul style="list-style-type: none">• Researching old-contents modernization through color style transfer• Followed up on papers related to Object Editing (Insertion & Removal) and participated in research aimed at generating scene-to-object and object-to-scene effects	
Research Intern , Kist (Korea Institute of Science and Technology) – Seoul, Korea	Sept 2023 – Dec 2023
<ul style="list-style-type: none">• Studied Generative models for solving human occlusion problem• Participated in projects to train multi view 3D human pose estimation by inputting 2D human skeleton	
Research Intern , Kist (Korea Institute of Science and Technology) – Seoul, Korea	Dec 2022 – Feb 2023
<ul style="list-style-type: none">• Studied projects to train and predict transformer models for pose estimation• Followed up on overall topics related to action recognition and temporal action localization	

Publications

ORIDA: Object-centric Real-world Image Composition Dataset – CVPR 2025	Feb 2025
Jinwoo Kim, Sangmin Han, Jinho Jeong, Jiwoo Choi , Dongyoung Kim, Seon Joo Kim	
Visual Fidelity vs. Robustness: Trade-Off Analysis of Image Adversarial Watermark Mitigated by SSIM Loss – ICLRW 2025	Feb 2025
Jiwoo Choi , Jinwoo Kim, Sejong Yang, Seon Joo Kim	

**Study on Small Object Tracking with OBB Annotations: A Comparative Analysis
of ByteTrack and StrongSORT – IPIU 2025**
Jiwoo Choi, Seon Joo Kim
accepted as bachelor's thesis

Jab 2025

Projects

- Color Grading for Long Video** 2025
Samsung Research & Yonsei University
• developing a user-controllable color transfer framework for long video
- Small Object Detection** 2024
Hanium ICT project, Institute for Information and Communications Technology Planning and Evaluation (IITP)
• Received the Director's Award from the Institute for Information and Communications Technology Planning and Evaluation (IITP).
• Title : Performance Analysis of OBB Models for Small Object Detection Using the SAT-MTB Dataset
- Text-to-3D Furniture Modeling** 2024
Graduation Capston project, Ewha Womans University
• Modifying Text-to-3D Generation Model (LGM) for Furniture sellers using ABO datasets
• Tools Used: Pytorch, Python, Gradio

Technologies

Programming Languages: C++, Python, Pytorch

Languages: Korean (Native), English