

KUNHO KIM (김건호)

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🔗 [Personal Page](#) 📄 [Github](#)

EDUCATION

KAIST (Korea Advanced Institute of Science and Technology)

M.S. in Computer Science

Mar.2022 - Feb.2024

Daejeon, South Korea

- Advisor: [Minhyuk Sung](#)

KAIST (Korea Advanced Institute of Science and Technology)

B.S. in Electrical Engineering

Double Major in Computer Science

Mar.2017 - Feb.2022

Daejeon, South Korea

PUBLICATIONS

* denotes equal contribution

- [1] **StyleMVD: Tuning-Free Image-Guided Texture Stylization by Synchronized Multi-View Diffusion**

Kunho Kim, Sanghyeon An, Minhyuk Sung

Under review

[\[Project page\]](#) [\[Code\]](#)

- [2] **As-Plausible-As-Possible: Plausibility-Aware Mesh Deformation Using 2D Diffusion Priors**

Seungwoo Yoo*, **Kunho Kim***, Vladimir Kim, Minhyuk Sung

CVPR 2024

[\[Project page\]](#) [\[Paper\]](#) [\[Code\]](#)

- [3] **SyncDiffusion: Coherent Montage via Synchronized Joint Diffusions**

Yuseung Lee, **Kunho Kim**, Hyunjin Kim, Minhyuk Sung

NeurIPS 2023

[\[Project page\]](#) [\[Paper\]](#) [\[Code\]](#)

- [4] **OptCtrlPoints: Optimizing Control Points for Biharmonic 3D Shape Deformation**

Kunho Kim*, Mikaela Angelina Uy*, Despoina Paschalidou, Alec Jacobson, Leonidas Guibas, Minhyuk Sung

Computer Graphics Forum (Proc. **Pacific Graphics 2023**)

[\[Project page\]](#) [\[Paper\]](#) [\[Code\]](#) [\[Video\]](#) [\[Slides\]](#)

AWARDS AND HONORS

Outstanding Master's Thesis Award

KAIST, Korea

Feb.2024

Outstanding Leadership & Service Award

KAIST, Korea

Feb.2022

ACADEMIC SERVICE

NeurIPS 2024 Reviewer

2024

Pacific Graphics 2023 Presentor, Student Volunteer

2023

WORK EXPERIENCES

- RebuilderAI**, AI Researcher *Mar.2024 - now*
- Research on 3D generative model
- Mathpang**, ML Engineer *Aug.2021 - Jan.2022*
- In charge of TIPS government support tasks, establishing ML pipeline (Recommendation system & NLP)
- Kohyoung**, Machine Intelligence Team Intern *Sep.2019 - Feb.2020*
- Develop an anomaly detection simulator through machine learning
- DHive**, Deep Learning Developer *Sep.2019 - Jul.2020*
- Study on object detection and automatic avoidance algorithms in UAV
 - Develop an emergency situation notification system in CCTV using object detection and optical flow

RESEARCH EXPERIENCES

- KAIST Visual AI Group**, Undergraduate Research Intern *Dec.2021 - Feb.2022*
- Advisor: Minhyuk Sung
- KAIST Urban Robotics Lab**, Undergraduate Research Intern *Dec.2020 - Jun.2021*
- Advisor: Hyun Myung
 - Study on the last-mile system (PCL, LiDAR, Segmentation etc.)
- DataStreams**, Industry-Academia Research Intern *Sep.2020 - Feb.2021*
- Advisor: Okjoo Choi
 - Data to knowledge - Text data visualization with entity linking
- KI4AI**, Undergraduate Research Intern *Sep.2020 - Dec.2020*
- Preprocess voice data and study on the emotional TTS model using Tacotron
- KAIST Robot Intelligence Technology Lab**, Undergraduate Research Intern for COOP *Jul.2019 - Aug.2019*
- Advisor: Jonghwan Kim
 - Study on the basic machine learning and data visualization
- DHive**, CUOP Intern *Jun.2019 - Aug.2019*
- Develop a modular AI prototype tool based on embedded OS using Docker – Object detection on Raspberry Pi3
- KAIST NMAIL**, Undergraduate Research Intern *May.2019 - Aug.2019*
- Advisor: Byunghyung Kim
 - Face generation - Create realistic face that look older with deep learning

TEACHING EXPERIENCES

Teaching Assistant (CS380) Introduction to Computer Graphics, KAIST	<i>Mar.2023 - Jun.2023</i>
(CS479) Machine Learning for 3D Data, KAIST	<i>Sep.2023 - Dec.2023</i>
Counseling Assistant KAIST Computer Science	<i>Sep.2023 - Feb.2024</i>

OTHER EXPERIENCES

FLOATIC , Outsourcing	<i>Aug.2021</i>
<ul style="list-style-type: none">• 3D modeling of robot logistics ware house map (Unity)	
KAIST ICN Lab , Outsourcing	<i>Feb.2021 - Mar.2021</i>
<ul style="list-style-type: none">• Develop an interactive software app for evaluating children's cognitive abilities (Android)	
KAIST App Start-up Program , Excellent Prize	<i>Dec.2020- Apr.2021</i>
<ul style="list-style-type: none">• Deploy the weight management app "Minimum" (Design and iOS)	
Naver AI Burning Day , Advance to the Finals	<i>Feb.2020</i>
<ul style="list-style-type: none">• Develop the personalized AI English tutor "MAMAGO" Using Naver translated Papago API	
Prography , IT union club 5th member	<i>Sep.2019 - Feb.2020</i>
<ul style="list-style-type: none">• Deploy the weather based AI style coordination recommendation app "FASH" (iOS)	
KAIST Mad Camp , Participant	<i>Dec.2018 - Feb.2019</i>
<ul style="list-style-type: none">• Develop a live text editor using socket communication (Android, Java)• Develop the rhythm game "Rhythm is life" (Unity, C#)• Develop the racing game "Lego Racer" (Unity, C#)• Develop a song lyrics generation system using Char-RNN model (Tensorflow, Python)	

PROJECTS

CMTP , KAIST CS470 Introduction to Artificial Intelligence	<i>Fall 2020</i>
<ul style="list-style-type: none">• Develop a vehicle trajectory prediction model using deep learning	
Zoomtopia , KAIST CS374 Introduction to HCI	<i>Spring 2020</i>
<ul style="list-style-type: none">• Develop the web page for short term room rental	
Dropfile , KAIST CS372 Natural Language Processing with Python	<i>Spring 2020</i>
<ul style="list-style-type: none">• Develop the system that automatically finds the directory for new downloaded files	

LEADERSHIP

Graduate Student Representative , KAIST Computer Science	<i>Mar.2022 - Aug.2022</i>
Club President , KAIST Leadership Executing Team (K-LET)	<i>Mar.2021 - Aug.2021</i>

SKILLS

Languages

Korean (Native), English (Middle)

Programming Languages

Python, JavaScript, C, C++, C#, HTML/CSS, Kotlin, Swift

Frameworks

Pytorch, Tensorflow, Docker, ReactJS