`Kyoungjun Park

2317 Speedway, Austin, TX 78712

kjpark@cs.utexas.edu | https://kyoungjunpark.github.io

EDUCATION	
The University of Texas at Austin (UT Austin) Computer Science / Ph.D. degree Advisor: Lili Qiu	06.2022 –
Korea Advanced Institute of Science and Technology (KAIST) School of Computing / M.S. degree (Outstanding Thesis Award, 3.95 / 4.3) Advisor: Myungchul Kim	03.2017 – 02.2019
Chung-Ang University Computer Science Engineering / B.S. degree (Summa Cum Laude, 4.36 / 4.5) Advisor: Sungrae Cho	03.2013 – 02.2017
RESEARCH INTERESTS	
Multimedia, Reinforcement Learning, Generative AI, Multimodal LLM, and Next-generation Networking.	
EMPLOYMENT	
Microsoft Research Asia @ Shanghai Research Intern	07.2022 – 08.2022
TmaxData Co., Ltd. @ South Korea For military service (Technical Research Personnel) Research Engineer & Team Leader (06.2021 – 06.2022)	02.2019 – 06.2022
AWARDS & HONORS	
Best Research Award @ Tmax Group 1st place among the first-year research engineers at the Tmax group	01.2020
Outstanding Thesis Award @ KAIST's School of Computing For a master's thesis titled "Environment-Aware Video Streaming Optimization of Power Consumption"	02.2019
The DLive Scholarship \$3K support for the presentation of the international conference (IEEE INFOCOM)	01.2019
Qualcomm-KAIST Innovation Awards \$5K research grant awarded by Qualcomm to challenging and creative science and engineering students	09.2018
Chung-Ang University Scholarship Merit-based scholarships for seven semesters	09.2013 – 02.2017

PUBLICATIONS

Real-Time Neural Video Recovery and Enhancement on Mobile Devices

Zhaoyuan He, Yifan Yang, Lili Qiu, Kyoungjun Park, Yuqing Yang

ACM International Conference on Emerging Networking Experiments and Technologies (CoNEXT) 2024

NeuSaver: Neural Adaptive Power Consumption Optimization for Mobile Video Streaming

Kyoungjun Park, Myungchul Kim, Laihyuk Park IEEE Transactions on Mobile Computing (TMC) 2022

EVSO: Environment-aware Video Streaming Optimization of Power Consumption

Kyoungjun Park, Myungchul Kim

IEEE International Conference on Computer Communications (INFOCOM) 2019 (acceptance ratio = 19.7%, 288/1464)

Energy-Efficient Mobile Charging for Wireless Power Transfer in Internet of Things Networks

Woongsoo Na, Junho Park, Cheol Lee, **Kyoungjun Park**, Joongheon Kim, Sungrae Cho IEEE Internet of Things Journal 2018

PATENTS	
Method to analyze data (Application filed in the USA & KR)	
Kyoungjun Park, Youngkwang Lee, Saemaro Moon, Changho Hwang	
Method and apparatus of video streaming (Korean title: 비디오 스트리밍 방법 및 장치) Myungchul Kim, Kyoungjun Park South Korea, 10-2153801	09.2020 –
EACHING EXPERIENCES	
CS356] Computer Networks @ UT Austin	Fall 2024
eaching Assistant	7411 2024
CS303E] Elems of Computers/Programming @ UT Austin eaching Assistant	Spring 2024
CS378] Introduction to Human-Computer Interaction @ UT Austin eaching Assistant	Fall 2023
CS331] Algorithms and Complexity @ UT Austin eaching Assistant	Spring 2023
CS371M] Mobile Computing @ UT Austin eaching Assistant	Fall 2022
CS360] Instruction to Database @ KAIST	Spring 2018
eaching Assistant CS408] Computer Science Project @ KAIST	- in the second
eaching Assistant	Fall 2017
ECENT PROJECTS	
 Introduced VidGuard-R1, the first multi-modal large language model (MLLM)-based video authenticity detector capable of delivering both highly accurate judgments and insightful reasoning Fine-tuned Qwen-VL on this dataset via Group Relative Policy Optimization (GRPO), incorporating two specialized reward models focused on temporal artifacts and generation complexity 	01.2025 –
orld Models with Signals	02.2024 – 12.2024
 Generated contextual-alligned video with various signals, i.e., lidar, radar, and Wi-Fi. Identified more effective scenarios when utilizing signal information than when using only video. 	
F Signal Generation using Diffusion Methods	
 Embedded both 2d room image and 3d features into the diffusion model using multi-scale design. Ablation studies comparing the result with the existing mmWave simulator that generates the 	08.2023 – 02.2024
heatmap of the signal strength using raytracing.	