Haeyun Choi

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Research Interests

My research interests span various topics in computer vision, emphasizing real-world applications. I am currently fo-

Educ	ation	
MS	POSTECH, Artificial Intelligence • Advisor: Prof. Sunghyun Cho ☑ • Thesis: "Exploiting Deblurring Networks for Radiance Fields"	Mar 2023 – Feb 2025
BS	Korea University, Biomedical Engineering	Mar 2015 – Aug 2022
Publ	ications	
Haey IEEE/	biting Deblurring Networks for Radiance Fields fun Choi, Heemin Yang, Janghyuk Han, Sunghyun Cho CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025) shop on Image Processing and Image Understanding (IPIU 2025, oral)	2025
Наеу	cal Flow-based Shakiness Detection in Dash-cams for Hit-and-Run Accident Analysis run Choi, Sunghyun Cho shop on Image Processing and Image Understanding (IPIU 2024)	2024
Haey	Cycle-VC: Towards Bottleneck-Independent Zero-Shot Cross-Lingual Voice Conversion <i>un Choi</i> , Jio Gim, Yuho Lee, Youngin Kim, Young-Joo Suh preprint	2023
Awa	rds and Honors	
Outs	tanding Paper Award, IPIU 2025 (link) 🗗	2025
KT-P	OSTECH AI Expert Program Scholarship \$7,800 x 4 (link) 🗹	2023 - 2025
Excel	lence Prize, POSCO Youth Academy AI Competition	2022
	d Prize, AI for Health & SDGs Competition (link) 🗹	2021
_	san Scholarships \$1,700 e Asset Exchange Student Scholarships \$3,100 (link) ば	2021 2021
Ехре	rience	
•	&D Center , Research Scientist Developing an AI spatial assistant for smart glasses Curating multimodal datasets for KT's proprietary MLLM	Seoul, South Korea Mar 2025 – Present

POSTECH Institute of Artificial Intelligence, Research Scientist

- Voice conversion using mel-spectrogram representation
- Video shakiness detection using optical flow statistics

Pohang, South Korea May 2022 - Feb 2023

Projects _ 2022 Real-time Danger Alert for Convenience Stores by Motion and Voice Recognition • Developed a violence detection system for store clerks • Applied top-down pose estimation and lightweight classification models • Created a 20k-image dataset and enabled real-time SMS alerts with incident frames Wear Your Mask On: Real-time Mask Detection & Warning System 2021 • Developed a mask detection system for COVID-19 public safety • Applied MobileNet and Haar Cascade for efficient face and mask detection • Delivered instant on-screen and audio alerts via real-time video processing Teaching Experience _____ Sep 2023 POSCO Youth AI Bigdata Academy (Video ☑) Teaching Assistant (Topic: Computer Vision) · Led hands-on sessions and mentored AI projects Extracurricular Activities _ Aug 2024 - Present **Team-Mate Mentorship Program** (K-Digital Training **☑**, KCCI **☑**) • Selected as 1st cohort mentor **☑** in a national career development program • Peer mentorship program, supporting junior trainees in career navigation Military Service (Republic of Korea Air Force ☑) Aug 2016 - Aug 2018 • Sergeant as Operations • Maintained 24/7 emergency standby status for mission deployment • Managed mission planning and scheduling for search and rescue operations Student Representative (Biomedical Engineering, Korea University) Mar 2015 - Aug 2016 • Volunteered as student representative · Helped organize departmental events and student activities Skills & Languages _____

Skills Python, Blender, MATLAB

Languages Korean: Native, English: Fluent (TOEIC 925, TOEFL 100)