Nahyuk Lee

Position	M.S. Student Department of Computer Science and Engineering Pohang University of Science and Technology (POSTECH)		
Contact Information	Computer Vision Laboratory E2 302, Department of CSE, POSTECH 77, Cheongam-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do, 37673 Republic of Korea E-mail : nahyuk.lee@postech.ac.kr	Homepage:https://nahyuklee.github.io/	
Citizenship	The Republic of Korea		
Birthday	Jan 13th, 2000.		
Research Interests	(3D) Computer vision and deep learning, especially, learning visual correspondences and its applications		
Education	Pohang University of Science and Technology (POSTECH), Pohang, KoreaM.S. Student in Computer Science and Engineering• Advisor : Prof. Minsu Cho• Major : Computer Science and Engineering• Admission with highest distinction (Bang Sung-Yang Fellowship)		
	 Chung-Ang University, Seoul, Korea B.S. in Computer Science and Engineering Advisor : Prof. Junseok Kwon Major : Computer Science and Engineering Cumulative GPA : 4.31/4.5 (Summa Cum Laude) 	Mar 2019 - Feb 2023	
	Hyundai Chung-Un High School , Ulsan, Korea Natural Science Track	Mar 2015 - Feb 2018	
Research Experiences	 Computer Vision Lab, POSTECH, Pohang, Kon Graduate Research Assistant Advisor : Prof. Minsu Cho Research on 3D computer vision and visual correct 	Jul 2022 - now	
	 Visual correspondence : Research computational efficient 3D point cloud matching for point cloud registration and geometric shape assembly [ICML 2024]. Group equivariant learning : Research SE(3)-equivariant 3D point cloud learning for point cloud registration and geometric shape assembly (ongoing). Collaboration with VGI Lab, SNU (Kanghee Lee, Prof. Jaesik Park). 		
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	 Computer Vision Lab, Korea University, Seoul Research Intern (full-time) Advisor : Prof. Sangpil Kim Research on audio-guided image manipulation [] 	Mar 2021 - Nov 2021	
	• Research on audio-guided image manipulation p stereo and synthetic DVS dataset creation.	tourn by 2021, and event-based photometric	

	Computer Graphics Lab, Chung-Ang University, Seoul, KoreaResearch Intern (full-time)Dec 2019 - Feb 2021• Advisor : Prof. Sanghyun Seo and Prof. Kyunghyun Yoon• Research on 3D reconstruction, and vision-based emotion analysis [CSCI 2020].	
Publications (Selected)	Nahyuk Lee [*] , Juhong Min [*] , Junha Lee, Seungwook Kim, Kanghee Lee, Jaesik Park, Minsu Cho, "3D Geometric Shape Assembly via Efficient Point Cloud Matching," <i>in Proceedings of the Internatioanl Conference on Machine Learning</i> (ICML), 2024 (*equal contribution)	
	Nahyuk Lee, Juhong Min, Junha Lee, Seungwook Kim, Kanghee Lee, Jaesik Park, Minsu Cho, "3차원 기하학적 조립을 위한 효율적인 점 구름 매칭," in <i>Workshop on Image Processing and Image</i> <i>Understanding</i> (IPIU), 2024, Oral presentation Best Paper Award (Grand Prize, 1 st of 311 papers ≈ 0.3%)	
	Seung Hyun Lee, Nahyuk Lee , Chanyoung Kim, Wonjeong Ryoo, Jinkyu Kim, Sang Ho Yoon, Sangpil Kim, "Audio-Guided Image Manipulation for Artistic Paintings," in <i>NeurIPS Workshop on Machine Learning for Creativity and Design</i> (NeurIPSW), 2021	
Publications (Others)	Nahyuk Lee, Taemin Lee, "The Study for Emotion Analysis from Images depend on Machine Learning Models," in <i>Journal of Digital Contents Society</i> (JDCS), 2021	
	Taemin Lee, Nahyuk Lee , Sanghyun Seo, Dongwann Kang, "A Study on the Prediction of Emotion from Image by Time-flow depend on Color Analysis," in <i>Proceeding of the International Conference</i> on Computational Science and Computational Intelligence (CSCI), 2020	
	Nahyuk Lee, Kyungtaek Lee, Youngsup Park, Sanghyun Seo, Taemin Lee, "Development of 3D Reconstruction and Object Recognition Model using Video," in <i>Journal of Digital Contents Society</i> (JDCS), 2020	
Honors and Awards	18 th Kwanjeong Educational Foundation Fellowship, KEF, 2023 - Winner, received \$16,500 during 2 years of my graduate studies	
	Bang Sung-Yang Graduate Fellowship, POSTECH, 2023 - Admission with highest distinction, \$1,200	
	16 th Kwanjeong Educational Foundation Fellowship, KEF, 2021 - Winner, received \$16,500 during 2 years of my undergraduate studies	
	University Innovation Support Project Scholarship, UISPC, 2021 - Research fellowship, \$750	
	SW Specialization Scholarship, CAU, 2020 - 2022 - Research fellowship, \$4,200 (total)	
	Da Vinci Scholarship, CAU, 2019 - Admission with highest distinction, \$7,250	
	Dean's List, CAU, 2019 - 2021 - 2019 Fall, 2020 Spring, 2020 Fall, 2021 Fall (4 times)	
	 Awards Best Paper Award (Grand Prize, 1st of 311 papers ≈ 0.3%), 36th Workshop on Image Processing and Image Understanding (IPIU), 2024 Excellence Prize in Research Report, Innovation Center for Engineering Education, CAU, 2022 	

- Excellence Prize in Project, Davinci Software Institute, CAU, 2021
- Best Paper Award. Digital Contents Society, 2020
- Excellence Award in Project,
- Innovation Center for Engineering Education, CAU, 2020 • Best Paper Award (top 10% papers), International Next-generation Convergence Technology Association, 2020
- Best Paper Award (2^{nd} Prize), Humanities Research Institute, CAU, 2020

Pohang University of Science and Technology (POSTECH)

Teaching Assistant

Teaching

Experiences

• CSED537/AIGS537 - Artificial Intelligence & Data Science (2024 Spring)

Ministry of National Defense, Republic of Korea

Instructor

- Conduct lectures on AI projects for South Korean soldiers and short-term service officers
- Collaboration with *Elice*, *Inc*.

Samsung Electronics Co., Ltd

Instructor

- Conduct DX lectures on data science and machine learning for newcomers (DS division)
- Collaboration with *Elice*, *Inc*.

Chung-Ang University

Teaching Assistant

- GE 56423 Computational Thinking and AI Literacy (2022 Fall)
- GE 52431 Understanding SW Programming for Problem Solving (2020 Fall, 2021 Spring/Fall, 2022 Spring)
- GE 51368 Computational Thinking and Problem Solving (2021 Spring/Fall, 2021 Spring/Fall)
- CSE 17086 Discrete Mathematics (2021 Fall)

Korea Scholar's Conference for Youth (KSCY)

Facilitator & Tutor

- Facilitator : 12th-13th KSCY computer engineering track camp facilitator
- Tutor : 15^{th} KSCY computer engineering track tutor

Graduate School of Dept. of CSE, POSTECH LEADERSHIP

President of Student Council

• President of graduate school council of Department of Computer Science & Engineering, POS-TECH.

Kwanjeong Educational Foundation Fellowship

18th Vice President

• Vice president of 18th Kwanjeong Educational Foundation Fellowship mensches.

Chung-Ang University Artificial Intelligency Society (CUAI)

 3^{rd} - 4th Chair

• 3rd (Mar 2020 - Feb 2021) and 4th (Mar 2021 - Feb 2022) chair of student AI society in Chung-Ang University, CUAI.

Korean (native), English (intermediate) LANGUAGE Skills Referees Available on request.

Feb 2024 - now

Jul 2023 - now

Mar 2020 - Feb 2021

Aug 2022 - Oct 2022

Feb 2024 - Mar 2024

Nov 2022 - Dec 2022

Sep 2020 - Dec 2022

Jun 2019 - Feb 2021