

BYEONGJOO AHN

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RESEARCH INTERESTS

Computer Vision, Computer Graphics, and Computational Imaging
Generative models and representations for image, video, audio, and 3D content

EDUCATION

Carnegie Mellon University Pittsburgh, PA
PhD, Electrical and Computer Engineering 2017–2023
Advisors: Aswin C. Sankaranarayanan and Ioannis Gkioulekas
Thesis: Full-surround 3D Reconstruction using Kaleidoscopes
Thesis Committee: Aswin C. Sankaranarayanan, Ioannis Gkioulekas, Manmohan Chandraker, Shree K. Nayar

Seoul National University Seoul, Korea
MS, Electrical Engineering and Computer Science 2012–2014
Advisor: Kyoung Mu Lee
Thesis: Occlusion-Aware Motion Deblurring for Bilayer Scenes
Outstanding Thesis Award

Seoul National University Seoul, Korea
BS, Electrical and Computer Engineering 2008–2012
Summa Cum Laude

PROFESSIONAL EXPERIENCE

Apple Seattle, WA
Research Scientist Jan 2024–Present
Research Intern with Jen-Hao Rick Chang and Karren Yang Jan 2023–Sep 2023

Snap Inc. (remote) New York, NY
Research Intern with Shree K. Nayar and Jian Wang May 2020–Aug 2020

Korea Institute of Science and Technology Seoul, Korea
Research Scientist Mar 2014–Aug 2017

PROFESSIONAL ACTIVITIES

Area Chair, CVPR (2026)

Area Chair, ICML (2025)

Area Chair, NeurIPS (2024, 2025)

Program Committee, ICCP (2023, 2024, 2025)

Reviewer, CVPR (2019–2025), ICCV (2019–2025), ECCV (2020, 2024), BMVC (2019), ICLR (2022), NeurIPS (2022–2023), SIGGRAPH (2022), SIGGRAPH Asia (2023), TIP (2022), TCI (2024)

SELECTED PUBLICATIONS

[Novel-view Acoustic Synthesis From 3D Reconstructed Rooms](#)

Byeongjoo Ahn, Karren Yang, Brian Hamilton, Jonathan Sheaffer, Anurag Ranjan, Miguel Sarabia, Oncel Tuzel, Jen-Hao Rick Chang
Interspeech, 2024

[Neural Kaleidoscopic Space Sculpting](#)

Byeongjoo Ahn, Michael De Zeeuw, Ioannis Gkioulekas, Aswin C. Sankaranarayanan
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023

[Kaleidoscopic Structured Light](#)

Byeongjoo Ahn, Ioannis Gkioulekas, Aswin C. Sankaranarayanan
ACM Transactions on Graphics (Proc. SIGGRAPH Asia), 2021

[Convolutional Approximations to the General Non-Line-of-Sight Imaging Operator](#)

Byeongjoo Ahn, Akshat Dave, Ashok Veeraraghavan, Ioannis Gkioulekas, Aswin C. Sankaranarayanan
IEEE/CVF International Conference on Computer Vision (ICCV), 2019 (**Oral**)

[Reduced Illumination Patterns for Acquisition of Specular and Diffuse Normal Maps](#)

Byeongjoo Ahn, Junghyun Cho, Taekyung Yoo, Ig-Jae Kim
ACM SIGGRAPH Asia Posters, 2016

[Dynamic Scene Deblurring](#)

Tae Hyun Kim, **Byeongjoo Ahn**, Kyoung Mu Lee
IEEE International Conference on Computer Vision (ICCV), 2013

AWARDS AND HONORS

Top Reviewer Award , NeurIPS	2022
Doctoral Study Abroad Scholarship , Korea Foundation for Advanced Studies (KFAS)	2017
Fulbright Graduate Study Award (respectfully declined), Fulbright	2017
Outstanding Thesis Award , Department of EECS, Seoul National University	2014
Graduate Scholarship , Kwanjeong Educational Foundation	2012
Presidential Science Scholarship , Korea Student Aid Foundation	2008
Gold Medal , Korean Physics Olympiad	2006

TEACHING

Teaching Assistant , Carnegie Mellon University	
15-463 , 15-663 , 15-862 Computational Photography	Fall 2020
18-290 Signals and Systems	Spring 2019, 2020

INVITED TALKS

Kaleidoscopic Imaging for Full-surround 3D Reconstruction

Connective AI Workshop	Aug 2023
KIST, Visual Intelligence Group	Apr 2023
Meta Reality Labs Research Pittsburgh, TechTalk	Apr 2022
Seoul National University, Topics in 3D Vision Workshop	Jan 2022