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

HP Labs — Palo Alto, CA
Intern with Irwin Sobel — Jan 2012–Feb 2012

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

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