

# BYEONGJOO AHN

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## RESEARCH INTERESTS

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

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## EDUCATION

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<b>Carnegie Mellon University</b>	Pittsburgh, PA
PhD, Electrical and Computer Engineering	2017–2023
Advisors: Aswin C. Sankaranarayanan and Ioannis Gkioulekas	
Thesis: Full-surround 3D Reconstruction using Kaleidoscopes	
Committee: Aswin C. Sankaranarayanan, Ioannis Gkioulekas, Manmohan Chandraker, Shree K. Nayar	
<b>Seoul National University</b>	Seoul, Korea
MS, Electrical Engineering and Computer Science	2012–2014
Advisor: Kyoung Mu Lee	
Thesis: Occlusion-Aware Motion Deblurring for Bilayer Scenes	
<i>Outstanding Thesis Award</i>	
<b>Seoul National University</b>	Seoul, Korea
BS, Electrical and Computer Engineering	2008–2012
<i>Summa Cum Laude</i>	

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## PROFESSIONAL EXPERIENCE

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<b>Apple</b>	Seattle, WA
Research Scientist	Jan 2024–Present
Research Intern with Jen-Hao Rick Chang and Karren Yang	Jan 2023–Sep 2023
<b>Snap Inc.</b>	(remote) New York, NY
Research Intern with Shree K. Nayar and Jian Wang	May 2020–Aug 2020
<b>Korea Institute of Science and Technology</b>	Seoul, Korea
Research Scientist	Mar 2014–Aug 2017

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## PROFESSIONAL ACTIVITIES

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<b>Area Chair</b> , CVPR (2026)	
<b>Area Chair</b> , ICML (2025)	
<b>Area Chair</b> , NeurIPS (2024, 2025)	
<b>Program Committee</b> , ICCP (2023, 2024, 2025)	
<b>Reviewer</b> , 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)	

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## SELECTED PUBLICATIONS

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### 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

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## AWARDS AND HONORS

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Top Area Chair, NeurIPS	2025
Top Reviewer, 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
Honorable Mention Award, Samsung Humantech Paper Award	2014
Graduate Scholarship, Kwanjeong Educational Foundation	2012
Presidential Science Scholarship, Korea Student Aid Foundation	2008
Gold Medal, Korean Physics Olympiad	2006

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## INVITED TALKS

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### 3D from Interreflections: Can Noise Become Information?

2025

Chung-Ang University

### Kaleidoscopic Imaging for Full-surround 3D Reconstruction

2022–2023

Meta Reality Labs · Seoul National University · KIST · Connective AI Workshop