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APPOINTMENTS

- 08/2012– Present **KAIST, Korea, KAIST ICT Endowed Chair Professor of Computer Science**
– Research areas: **Computer Graphics and Vision**
(specialized in Computational Imaging and 3D Imaging)
– Director of the Visual Computing Laboratory (VCLAB), KAIST, Korea
- 08/2010–08/2012 Yale University, USA, Postdoctoral Associate in Computer Science
- 07/2009–07/2010 University College London (UCL), UK, Research Associate in Computer Science

EDUCATION/TRAINING

- 08/2010–08/2012 Yale University, USA, Postdoc in Computer Science
- 09/2006–02/2010 University College London (UCL), UK, PhD in Computer Science
– Thesis: High-Fidelity Colour Reproduction for High-Dynamic-Range Imaging

AWARDS/FELLOWSHIPS/PRESS RELEASE

- **General Member of the National Academy of Engineering of Korea**
Appointed as a general member of the National Academy of Engineering of Korea, Korea (2025–2027)
- **KAIST ICT Endowed Chair Professor**
Appointed as KAIST ICT Endowed Chair Professor for outstanding research career (KAIST, 2023–2026)
- **SK-Hynix Excellence Award of Outstanding Inventions in Industry-Academic Research 2024**
- Enhancing depth accuracy for time-of-flight (TOF) imaging
- **SK-Hynix Grand Prize of Outstanding Inventions in Industry-Academic Research 2022**
- Efficient denoising for time-of-flight (TOF) imaging
- **ACM SIGGRAPH Technical Paper Award Honorable Mention 2022**
- Sparse Ellipsometry: Portable Acquisition of Polarimetric SVBRDF and Shape (SIGGRAPH, 2022)
- **KAIST's Top 10 Research Accomplishments 2021**
- Differentiable transient rendering for NLOS imaging (KAIST, 2021)
- **KAIST Technology Innovation Excellence Award 2021**
Awarded for excellence in academic research career
- **S-Oil Excellent Thesis Award (Grand Prize in IT division) by Korea Academy of Science and Technology, 2020**
Awarded to both outstanding doctoral student and professor who educated his student
- **KAIST Academic Award 2020**
Awarded for excellence in academic research career
- **KAIST Endowed Chair Professor**
Appointed as KAIST Endowed Chair Professor for outstanding research career (KAIST, 2019–2022)
- Press release in 2020: [Microsoft Research Blog](#)
- TextureFusion: acquiring high-quality texture and geometry in real-time (also presented at CVPR 2020)

- Press release in 2018: [Eurekalert](#), [Digital Journal](#), [ScienceDaily](#), [LabRoots](#), [E&T Magazine](#), [New Electronics](#), [TD News](#), [VR Soldier](#), [Spar3D](#), [3DPI](#), and [SciTech](#)
 - To replicate physical objects for virtual reality, just turn on your smartphone (also presented at ACM SIGGRAPH Asia 2018)
- **National R&D Excellence 100 by the Ministry of Science and ICT of Korea, 2018**
 - High-performance image acquisition technology for creating photorealistic imagery
- **KAIST CORE Tech Transfer Day 2018**
 - Compact hyperspectral imaging at low cost (also presented at ACM SIGGRAPH Asia 2017)
 - Six technologies were selected at KAIST in 2018
- **Faculty Career Award of the KAIST School of Computing 2017**
 - Received a faculty award for his outstanding academic career in the KAIST School of Computing
- Press release in 2017: [Eurekalert](#), [Photonics Media](#), [Tech. Breaking News](#), and [R&D Magazine](#)
 - Compact hyperspectral imaging at low cost (also presented at ACM SIGGRAPH Asia 2017)
- **KAIST's Top 10 Research Accomplishments 2016**
 - Birefractive stereo imaging for single-shot depth acquisition (KAIST, 2016)
- **Best Paper Awards**
 - Received Best Application Paper & Demo Awards for outstanding work on 3D imaging at ACCV 2014
 - Received a Best Paper Award for our work on open-source graphics software at VAST 2012
- **KAIST Ewon Assistant Professor**
 - Appointed as a KAIST Ewon Endowed Professor for outstanding young faculty (KAIST, 2013–2016)
- **Naver Young Faculty Fellowship**
 - Received a Naver Young Faculty Fellowship with a grant for outstanding new faculty, 2015
- **Microsoft New Faculty Award in Korea**
 - Received a Microsoft New Faculty Award with a grant for outstanding new faculty in Korea, 2013

TECHNICAL PAPER CHAIR/COMMITTEE

International Program Chair:

- **Eurographics (EG) 2022, Technical Papers Chair**
- **ACM SIGGRAPH Asia 2022, Courses Chair**
- **ACM SIGGRAPH Asia 2020, Technical Communications and Posters Co-Chair**
- **Pacific Graphics (PG) 2023, Program Co-Chair**
- **Pacific Graphics (PG) 2019, Work-in-Progress Chair**
- **Int. Conf. on Computer Animation and Social Agents (CASA) 2017, Workshop Chair**

International Program Committee/Area Chair:

- **ACM SIGGRAPH (Technical Paper) 2021, 2022, 2024, 2025**
- **ACM SIGGRAPH (Technical Paper Sorter) 2026**
- **ACM SIGGRAPH (General Submission) 2014, 2015**
- **ACM SIGGRAPH Asia (Technical Paper) 2017, 2018, 2020, 2023, 2026**
- **ACM SIGGRAPH Asia (Technical Paper Sorter) 2022**
- **ACM SIGGRAPH Asia (Technical Briefs and Poster) 2017, 2018, 2019**
- **ACM SIGGRAPH Asia (Courses Committee) 2018, 2021**
- **IEEE Computer Vision and Pattern Recognition (CVPR) 2020, 2023, 2024, 2025 (Lead), 2026 (Lead)**
- **IEEE Int. Conf. on Computer Vision (ICCV) 2019, 2025 (Lead)**
- **European Conference on Computer Vision (ECCV) 2024, 2026 (Lead)**
- **Conference on Neural Information Processing Systems (NeurIPS) 2024, 2025**

- **ASIAGRAPHS (Executive Committee) 2022**
- **IEEE Int. Conf. on Computational Photography (ICCP) 2021, 2022, 2023**
- **Asian Conf. on Computer Vision (ACCV) 2020**
- **Conference on Artificial Intelligence (AAAI) 2020, 2021, 2022**
- **Eurographics (EG) 2018, 2019, 2025**
- **Eurographics Symposium on Rendering (EGSR) 2021, 2022, 2023**
- **Pacific Graphics (PG) 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021**
- **Int. Conf. on Computer Animation and Social Agents (CASA) 2017, 2018, 2019, 2020, 2021**
- **Int. Symp. on Visual Computing (ISVC) 2018, 2019, 2020, 2021**
- **ACM Symposium on Virtual Reality Software and Technology (VRST) 2018, 2019**
- **Int. Conf. on Computational Visual Media (CVM) 2017, 2019**
- **Int. Conf. Multimedia Modeling (MMM) 2019, 2020**
- **CAD/Graphics 2013, 2015, 2017**
- **Int. Society on Virtual Systems and MultiMedia (VSMM) 2017**
- **Int. Symp. on Computational Design and Engineering (ISCDE) 2017**
- **Spring Conf. on Computer Graphics (SCCG) 2013, 2014, 2015, 2016**
- **Eurographics Workshop on Graphics & Cultural Heritage (GCH) 2014, 2016**
- **Pacific-rim Conference on Multimedia (PCM) 2015, 2016**
- **Digital Heritage 2013, 2015**
- **Int. Conf. on Progress in Informatics and Computing (PIC) 2014, 2015**
- **Int. Conf. on Image and Vision Computing New Zealand (IVCNZ) 2013, 2014, 2015**
- **Asian Conf. on Pattern Recognition (ACPR) 2015**
- **Int. Sym. on Ubiquitous Virtual Reality (ISUVR) 2013**
- **Int. Sym. on Virtual Reality, Archaeology & Cultural Heritage (VAST) 2011, 2012**

EDITORIAL BOARD

- **Associate Editor, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), since Jun. 2024**
- **Associate Editor, IEEE Transactions on Visualization and Computer Graphics (TVCG), since Jan. 2022**
- **Associate Editor, ACM Transactions on Applied Perception (TAP), Jul. 2016 – Jul. 2023**
- **Associate Editor, IEEE Transactions on Computational Imaging (TCI), Oct. 2020 – Jun. 2022**
- **Associate Editor, Elsevier Computers and Graphics (CAG), Aug. 2016 – Jul. 2022**
- **Associate Editor, ACM Transactions on Graphics (TOG), Jul. 2014 – Aug. 2017**

PUBLICATIONS

[TOP CONF./TOTAL PUB.: 54/107 (J. 45, C. 65), TOTAL IF: 223.266]

Top Conferences/Journals (SIGGRAPH/SIGGRAPH Asia) in Computer Graphics[§]: (25 papers)

- [J1] Shinyoung Yi, Jiwoong Na, Seungmin Hwang, Inseung Hwang, **Min H. Kim** (2025), “Frame-Free Representation of Polarized Light for Resolving Stokes Vector Singularities,” ACM Transactions on Graphics (ACM TOG), 44(6), presented at **SIGGRAPH Asia 2025**, Dec. 15 – 18. 2025, (**SCI-IF=7.403**)
- [J2] Yixin Zeng, Kiseok Choi, Hadi Amata, Kaizhang Kang, Wolfgang Heidrich, Hongzhi Wu, **Min H. Kim** (2025), “Designing and Fabricating Color BRDFs with Differentiable Wave Optics,” ACM Transactions on Graphics (ACM TOG), 44(6), presented at **SIGGRAPH Asia 2025**, Dec. 15 – 18. 2025, (**SCI-IF=7.403**)

[§]ACM TOG is the top journal (IF=9.5 in 2024) that ranks 1st in computer graphics publications, according to Google Scholar Metrics. All manuscripts in TOG are simultaneously presented at the top conferences in computer graphics, either **SIGGRAPH** or **SIGGRAPH Asia**.

- [C1] Yunseong Moon, Ryota Maeda, Suhyun Shin, Inseung Hwang, Youngchan Kim, **Min H. Kim**, Seung-Hwan Baek (2025), “Hyperspectral Polarimetric BRDFs of Real-world Materials,” presented at **SIGGRAPH Asia 2025**, Dec. 15–18. 2025, Hong Kong, China
- [J3] Hyunho Ha, Inseung Hwang, Nestor Monzon, Jaemin Cho, Donggun Kim, Seung-Hwan Baek, Adolfo Muñoz, Diego Gutierrez, **Min H. Kim** (2024), “Polarimetric BSSRDF Acquisition of Dynamic Faces,” *ACM Transactions on Graphics (ACM TOG)*, 43(6), presented at **SIGGRAPH Asia 2024**, Dec. 3–6. 2024, (**SCI-IF=7.403**)
- [J4] Shinyoung Yi, Donggun Kim, Jiwoong Na, Xin Tong, **Min H. Kim** (2024), “Spin-Weighted Spherical Harmonics for Polarized Light Transport,” *ACM Transactions on Graphics (ACM TOG)*, 43(4), presented at **SIGGRAPH 2024**, Jul. 28–Aug. 1, 2024, (**SCI-IF=7.403**)
- [C2] Kiseok Choi, Inchul Kim, Dongyoung Choi, Julio Marco, Diego Gutierrez, **Min H. Kim** (2023), “Self-Calibrating, Fully Differentiable NLOS Inverse Rendering,” presented at **SIGGRAPH Asia 2023**, Dec. 12–15, Sydney, Australia
- [J5] Inseung Hwang, Daniel S. Jeon, Adolfo Muñoz, Diego Gutierrez, Xin Tong, **Min H. Kim** (2022), “Sparse Ellipsometry: Portable Acquisition of Polarimetric SVBRDF and Shape With Unstructured Flash Photography,” *ACM Transactions on Graphics (ACM TOG)*, 41(4), presented at **SIGGRAPH 2022**, Aug 8–Aug 11, 2022, (**SCI-IF=7.403**)
- [J6] Hyeonjoong Jang, Andréas Meuleman, Dahyun Kang, Donggun Kim, Christian Richardt, **Min H. Kim** (2022), “Egocentric Scene Reconstruction From an Omnidirectional Video,” *ACM Transactions on Graphics (ACM TOG)*, 41(4), presented at **SIGGRAPH 2022**, Aug 8–Aug 11, 2022, (**SCI-IF=7.403**)
- [J7] Shinyoung Yi, Donggun Kim, Kiseok Choi, Adrian Jarabo, Diego Gutierrez, **Min H. Kim** (2021), “Differentiable Transient Rendering,” *ACM Transactions on Graphics (ACM TOG)*, 40(6), presented at **SIGGRAPH Asia 2021**, Dec. 14–Dec. 17, 2021, (**SCI-IF=7.403**)
- [J8] Mustafa B. Yaldiz, Andreas Meuleman, Hyeonjoong Jang, Hyunho Ha, **Min H. Kim** (2021), “Deep-FormableTag: End-to-end Generation and Recognition of Deformable Fiducial Markers,” *ACM Transactions on Graphics (ACM TOG)*, 40(4), presented at **SIGGRAPH 2021**, Aug 9–Aug 13, 2021, (**SCI-IF=7.403**)
- [J9] Seung-Hwan Baek, Tizian Zeltner, Hyun Jin Ku, Inseung Hwang, Xin Tong, Wenzel Jakob, **Min H. Kim** (2020), “Image-Based Acquisition and Modeling of Polarimetric Reflectance,” *ACM Transactions on Graphics (ACM TOG)*, 39(4), presented at **SIGGRAPH 2020**, July 19–July 23, 2020, (**SCI-IF=5.414**)
- [J10] Daniel S. Jeon, Seung-Hwan Baek, Shinyoung Yi, Qiang Fu, Xiong Dun, Wolfgang Heidrich, **Min H. Kim** (2019), “Compact Snapshot Hyperspectral Imaging with Diffracted Rotation,” *ACM Transactions on Graphics (ACM TOG)*, 38(4), presented at **SIGGRAPH 2019**, July 28–August 1, 2019, pp. 117:1–13 (**SCI-IF=5.084**)
- [J11] Giljoo Nam, Joo Ho Lee, Diego Gutierrez, **Min H. Kim** (2018), “Practical SVBRDF Acquisition of 3D Objects with Unstructured Flash Photography,” *ACM Transactions on Graphics (ACM TOG)*, 37(6), presented at **SIGGRAPH Asia 2018**, Dec. 4, 2018 (**SCI-IF=6.495**)
- [J12] Seung-Hwan Baek, Daniel S. Jeon, Xin Tong, **Min H. Kim** (2018), “Simultaneous Acquisition of Polarimetric SVBRDF and Normals,” *ACM Transactions on Graphics (ACM TOG)*, 37(6), presented at **SIGGRAPH Asia 2018**, Dec. 4, 2018 (**SCI-IF=6.495**)

- [J13] Joo Ho Lee, Adrián Jarabo, Daniel S. Jeon, Diego Gutierrez, **Min H. Kim** (2018), “Practical Multiple Scattering for Rough Surfaces,” *ACM Transactions on Graphics (ACM TOG)*, 37(6), presented at **SIGGRAPH Asia 2018**, Dec. 4, 2018 (**SCI-IF=6.495**)
- [J14] Inchang Choi, Daniel S. Jeon, Giljoo Nam, Diego Gutierrez, **Min H. Kim** (2017), “High-Quality Hyperspectral Reconstruction Using a Spectral Prior,” *ACM Transactions on Graphics (ACM TOG)*, 36(6), pp. 218:1–13, presented at **SIGGRAPH Asia 2017**, Nov. 27, 2017 (**SCI-IF=4.384**)
- [J15] Seung-Hwan Baek, Incheol Kim, Diego Gutierrez, **Min H. Kim** (2017), “Compact Single-Shot Hyperspectral Imaging Using a Prism,” *ACM Transactions on Graphics (ACM TOG)*, 36(6), pp. 217:1–12, presented at **SIGGRAPH Asia 2017**, Nov. 27, 2017 (**SCI-IF=4.384**)
- [J16] Julio Marco, Quercus Hernandez, Adolfo Munoz, Yue Dong, Adrian Jarabo, **Min H. Kim**, Xin Tong, Diego Gutierrez (2017), “DeepToF: Off-the-Shelf Real-Time Correction of Multipath Interference in Time-of-Flight Imaging,” *ACM Transactions on Graphics (ACM TOG)*, 36(6), pp. 219:1–12, presented at **SIGGRAPH Asia 2017**, Nov. 27, 2017 (**SCI-IF=4.384**)
- [J17] Giljoo Nam, Joo Ho Lee, Hongzhi Wu, Diego Gutierrez, **Min H. Kim** (2016), “Simultaneous Acquisition of Microscale Reflectance and Normals,” *ACM Transactions on Graphics (ACM TOG)*, 35(6), pp. 185:1–11, presented at **SIGGRAPH Asia 2016**, Dec. 5, 2016 (**SCI-IF=4.088**)
- [J18] Seung-Hwan Baek, Diego Gutierrez, **Min H. Kim** (2016), “Birefractive Stereo Imaging for Single-Shot Depth Acquisition,” *ACM Transactions on Graphics (ACM TOG)*, 35(6), pp. 194:1–11, presented at **SIGGRAPH Asia 2016**, Dec. 5, 2016 (**SCI-IF=4.088**)
- [J19] **Min H. Kim**, Todd Alan Harvey, David S. Kittle, Holly Rushmeier, Julie Dorsey, Richard O. Prum, David J. Brady (2012), “3D Imaging Spectroscopy for Measuring Hyperspectral Patterns on Solid Objects,” *ACM Transactions on Graphics (ACM TOG)*, 31(4), presented at **SIGGRAPH 2012**, Aug. 05, 2012, pp. 38:1–11 (**SCI-IF=3.361**)
- [J20] Patrick Paczkowski, **Min H. Kim**, Yann Morvan, Julie Dorsey, Holly Rushmeier, Carol O’Sullivan (2011), “Insitu: Sketching Architectural Designs in Context,” *ACM Transactions on Graphics (ACM TOG)*, 30(6), presented at **SIGGRAPH Asia 2011**, Dec. 12, 2011, pp. 182:1–10 (**SCI-IF=3.489**)
- [J21] **Min H. Kim**, Tobias Ritschel, Jan Kautz (2011), “Edge-Aware Color Appearance,” *ACM Transactions on Graphics (ACM TOG)*, 30(2), presented at **SIGGRAPH 2011**, Apr. 01, 2011, pp. 13:1–9 (**SCI-IF=3.489**)
- [J22] **Min H. Kim**, Tim Weyrich, Jan Kautz (2009), “Modeling Human Color Perception under Extended Luminance Levels,” *ACM Transactions on Graphics (ACM TOG)*, 28(3), presented at **SIGGRAPH 2009**, Jul. 27, 2009, pp. 27:1–9 (**SCI-IF=3.619**)
- [J23] Tobias Ritschel, Thorsten Grosch, **Min H. Kim**, Hans-Peter Seidel, Carsten Dachsbacher, Jan Kautz (2008), “Imperfect Shadow Maps for Efficient Computation of Indirect Illumination,” *ACM Transactions on Graphics (ACM TOG)*, 27(5), presented at **SIGGRAPH Asia 2008**, Dec. 10, 2008, pp. 129:1–8 (**SCI-IF=3.383**)

Top Conferences (CVPR/ICCV/ECCV) in Computer Vision*: (28 papers)

- [C3] Kiseok Choi, Jaemin Cho, Inchul Kim, **Min H. Kim** (2026) “Splat-Based Metal Artifact Reduction in Cone-Beam CT via Compact Attenuation Modeling,” *Proc. IEEE/CVF Computer Vision and Pattern Recognition (CVPR)*, Denver, Colorado, United States, Jun. 3–7, 2026
- [C4] Kiseok Choi, Hyeongjun Cho, Inchul Kim, **Min H. Kim** (2026) “Revisiting Pose Sensitivity in Splat-based Computed Tomography under Sparse-view Reconstruction,” *Proc. IEEE/CVF Computer Vision and Pattern Recognition (CVPR)*, Denver, Colorado, United States, Jun. 3–7, 2026

*CS top conferences in computer vision include CVPR/ICCV/ECCV.

- [C5] Hakyong Kim, Ruicheng Wang, Chengtang Yao, Jiaolong Yang, **Min H. Kim** (2026) “Dense Metric Depth Completion from Sparse Direct Time-of-Flight Sensors,” Proc. IEEE/CVF Computer Vision and Pattern Recognition (**CVPR**), Denver, Colorado, United States, Jun. 3–7, 2026
- [C6] Hyeonjoong Jang, Dongyoung Choi, Donggun Kim, Woohyun Kang, **Min H. Kim** (2025) “Splat-based 3D Scene Reconstruction with Extreme Motion-blur,” Proc. IEEE International Conference on Computer Vision (**ICCV**), Honolulu, HI, United States, Oct. 19 – 23, 2025
- [C7] Inseung Hwang, Kiseok Choi, Hyunho Ha, **Min H. Kim** (2025) “Benchmarking Burst Super-Resolution for Polarization Images: Noise Dataset and Analysis,” Proc. IEEE International Conference on Computer Vision (**ICCV**), Honolulu, HI, United States, Oct. 19 – 23, 2025
- [C8] Hyunho Ha, Lei Xiao, Christian Richardt, Thu Nguyen-Phuoc, Changil Kim, **Min H. Kim**, Douglas Lanman, Numair Khan (2025) “Geometry-guided Online 3D Video Synthesis with Multi-View Temporal Consistency,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**), Nashville, United States, Jun. 11 – 15, 2025
- [C9] Dongyoung Choi, Hyeonjoong Jang, **Min H. Kim** (2024) “OmniLocalRF: Omnidirectional Local Radiance Fields from Dynamic Videos,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**), Seattle, United States, Jun. 17 – 21, 2024
- [C10] Hakyong Kim, Andreas Meuleman, Hyeonjoong Jang, James Tompkin, **Min H. Kim** (2024) “OmniSDF: Scene Reconstruction using Omnidirectional Signed Distance Functions and Adaptive Binotrees,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2024, Seattle, United States, Jun. 17 – 21, 2024
- [C11] Jungwoo Kim, **Min H. Kim** (2023) “Joint Demosaicing and Deghosting of Time-Varying Exposures for Snapshot HDR Imaging,” Proc. IEEE International Conference on Computer Vision (**ICCV**), Paris, France, Oct. 4 – 6, 2023
- [C12] Donggun Kim, Hyeonjoong Jang, Inchul Kim, **Min H. Kim** (2023) “Spatio-Focal Bidirectional Disparity Estimation from a Dual-Pixel Image,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2023, Vancouver, Canada, Jun. 18 – 22, 2023
- [C13] Daniel S. Jeon, Andreas Meuleman, Seung-Hwan Baek, **Min H. Kim** (2023) “Polarimetric iToF: Measuring High-Fidelity Depth through Scattering Media,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2023, Vancouver, Canada, Jun. 18 – 22, 2023
- [C14] Andreas Meuleman, Yu-Lun Liu, Chen Gao, Jia-Bin Huang, Changil Kim, **Min H. Kim**, Johannes Kopf (2023) “Progressively Optimized Local Radiance Fields for Robust View Synthesis,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2023, Vancouver, Canada, Jun. 18 – 22, 2023
- [C15] Andreas Meuleman, Hakyong Kim, James Tompkin, **Min H. Kim** (2022) “FloatingFusion: Depth from ToF and Image-stabilized Stereo Cameras ” Proc. European Conference on Computer Vision (**ECCV**) 2022, Tel Aviv, Oct. 23 – 27, 2022
- [C16] Donghun Kang, Hyeonjoong Jang, Jungeon Lee, Chong-Min Kyung, **Min H. Kim** (2022) “Uniform Sub-division of Omnidirectional Camera Space for Efficient Spherical Stereo Matching,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2022, New Orleans, USA, Jun. 19 – 24, 2022
- [C17] Seung-Hwan Baek, Hayato Ikoma, Daniel S. Jeon, Yuqi Li, Wolfgang Heidrich, Gordon Wetzstein, **Min H. Kim** (2021) “Single-shot Hyperspectral-Depth Imaging with Learned Diffractive Optics,” Proc. IEEE International Conference on Computer Vision (**ICCV**) 2021, Montreal, Canada & Virtual, Oct 11, 2021 – Oct 17, 2021

- [C18] Andreas Meuleman, Hyeonjoong Jang, Daniel S. Jeon, **Min H. Kim** (2021) “Real-Time Sphere Sweeping Stereo from Multiview Fisheye Images,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR Oral**) 2021, Nashville, Tennessee, USA, June 19–25, 2021
- [C19] Hakyeon Kim, Andreas Meuleman, Daniel S. Jeon, **Min H. Kim** (2021) “High-Quality Stereo Image Restoration from Double Refraction,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2021, Nashville, Tennessee, USA, June 19–25, 2021
- [C20] Hyunho Ha, Joo Ho Lee, Andreas Meuleman, **Min H. Kim** (2021) “NormalFusion: Real-Time Acquisition of Surface Normals for High-Resolution RGB-D Scanning,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2021, Nashville, Tennessee, USA, June 19–25, 2021
- [C21] Numair Khan, **Min H. Kim**, James Tompkin (2021) “Differentiable Diffusion for Dense Depth Estimation from Multi-view Images,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2021, Nashville, Tennessee, USA, June 19–25, 2021
- [C22] Joo Ho Lee, Hyunho Ha, Yue Dong, Xin Tong, **Min H. Kim** (2020) “TextureFusion: High-Quality Texture Acquisition for Real-Time RGB-D Scanning,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR Oral, Best Paper Finalist**) 2020, Seattle, WA, USA, June 14–19, 2020
- [C23] Andreas Meuleman, Seung-Hwan Baek, Felix Heide, **Min H. Kim** (2020) “Single-shot Monocular RGB-D Imaging using Uneven Double Refraction,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR Oral**) 2020, Seattle, WA, USA, June 14–19, 2020
- [C24] Inchang Choi, Orazio Gallo, Alejandro Troccoli, **Min H. Kim**, Jan Kautz (2019) “Extreme View Synthesis,” Proc. IEEE International Conference on Computer Vision (**ICCV Oral**) 2019, Seoul, Korea, Oct. 27—Nov. 2, 2019
- [C25] Numair Khan, Qian Zhang, Lucas Kasser, Henry Stone, **Min H. Kim**, James Tompkin (2019) “View-consistent 4D Light Field Superpixel Segmentation,” Proc. IEEE International Conference on Computer Vision (**ICCV Oral**) 2019, Seoul, Korea, Oct. 27–Nov. 2, 2019
- [C26] Giljoo Nam, Chenglei Wu, **Min H. Kim**, Yaser Sheik (2019) “Strand-accurate Multi-view Hair Capture,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR Oral**) 2019, Long Beach, CA, USA, June 16–20, 2019
- [C27] Lizhi Wang, Chen Sun, Ying Fu, **Min H. Kim**, Huang Hua (2019) “Hyperspectral Image Reconstruction Using a Deep Spatial-Spectral Prior,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2019, Long Beach, CA, USA, June 16–20, 2019
- [C28] Daniel S. Jeon, Seung-Hwan Baek, Inchang Choi, **Min H. Kim** (2018) “Enhancing the Spatial Resolution of Stereo Images using a Parallax Prior,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2018, Salt Lake City, USA, June 18, 2018
- [C29] Seung-Hwan Baek, Inchang Choi, **Min H. Kim** (2016) “Multiview Image Completion with Space Structure Propagation,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2016, Las Vegas, USA, June 26, 2016, pp. 488–496
- [C30] Joo Ho Lee, Inchang Choi, **Min H. Kim** (2016) “Laplacian Patch-Based Image Synthesis,” Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2016, Las Vegas, USA, June 26, 2016, pp. 2727–2735

Other Top Conferences[‡]: (1 paper)

[‡]ACM UIST is one of the top conferences along with ACM CHI in the human-computer-interaction (HCI) area.

[C31] Patrick Paczkowski, Julie Dorsey, Holly Rushmeier, **Min H. Kim** (2014), “Paper3D: Bringing Casual 3D Modeling to a Multi-Touch Interface,” Proc. ACM User Interface Software and Technology Symposium (ACM UIST) 2014, Honolulu, USA, Oral presentation (long paper), Oct. 5, 2014, pp. 23–32

Other International SCI-E Journals:

[J24] Kiseok Choi, Inchul Kim, Jaemin Cho, Hyeongjun Cho, and **Min H. Kim** (2026) “Splat-based Metal Artifact Reduction in Cone-Beam CT via Polychromatic Modeling” Computer Graphics Forum (CGF), presented at **EUROGRAPHICS** 2026, 45(2), May 04–08, 2026 (**SCI-IF=2.90**)

[J25] Hyun-Kyung Kim, Young-Gil Cha, Jae-Myeong Kwon, Sang-In Bae, Kisoo Kim, Kyung-Won Jang, Yong-Jin Jo, **Min H. Kim**, and Ki-Hun Jeong (2025) “Biologically-inspired microlens array camera for high-speed and high-sensitivity imaging” AAAS Science Advances, 2025, (**SCI-IF=13.60**)

[J26] Numair Khan, **Min H. Kim**, James Tompkin (2024) “Are Multi-view Edges Incomplete for Depth Estimation?” International Journal of Computer Vision (IJCV), 2024, (**SCI-IF=19.50**)

[J27] Young-Gil Cha, Jiwoong Na, Hyun-Kyung Kim, Jae-Myeong Kwon, Seok-Haeng Huh, Seung-Un Jo, Chang-Hwan Kim, **Min H. Kim**, Ki-Hun Jeong (2023) “Joint Demosaicing and Deghosting of Time-Varying Exposures for Single-Shot HDR Imaging,” Optics Express (OE), Vol. 31, Issue 18, pp. 29589–29595 (2023) (**SCI-IF=3.833**)

[J28] Hyeonjoong Jang, Sanghoon Cho, Daniel S. Jeon, Dahyun Kang, Myeongho Song, Changhyun Park, Jaewon Kim, **Min H. Kim**, Ki-Hun Jeong (2023) “Automated Visual Inspection of Defects in Transparent Display Layers using Light-Field 3D Imaging,” IEEE Transactions on Semiconductor Manufacturing (TSM), (**SCI-IF=2.796**)

[J29] Myeong-Su Ahn, Jaehun Jeon, Charles Soon Hong Hwang, Daniel S. Jeon, **Min H. Kim**, Ki-Hun Jeong (2023) “Actively Tunable Spectral Filter for Compact Hyperspectral Camera using Angle-Sensitive Plasmonic Structures,” Advanced Materials Technologies, 2201482, (**SCI-IF=8.856**)

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- [K19] **Min Hyuk Kim**, Joo Ho Lee, “Method for Producing of Spherical Harmonic Lighting Locally, and Spherical Harmonic Rendering Apparatus”, KR Patent App.: 10-2014-0194343, published in Dec. 30, 2014. **KR Patent: 10-1659933, registered** in Sep. 20, 2016.
- [K20] **Min Hyuk Kim**, Seung-Hwan Baek, “Method and Apparatus for Generating Depth map Using Refractive Medium on Binocular Base”, KR Patent App.: 10-2015-0002987, published in Jan. 08, 2015. **KR Patent: 10-1632069, registered** in Jun. 14, 2016.
- [K21] **Min Hyuk Kim**, Haebom Lee, “Hyperspectral Imaging System”, KR Patent App.: 10-2014-0150251, published in Oct. 31, 2014. **KR Patent: 10-1632067, registered** in Jun. 14, 2016.
- [K22] **Min Hyuk Kim**, Giljoo Nam, “Multispectral Photometric Stereo System and Operating Method”, KR Patent App.: 10-2015-0032781, published in Mar. 09, 2015. **KR Patent: 10-1630856, registered** in Jun. 09, 2016.

Korean Patent Applications: (11 applications)

- [K23] **Min Hyuk Kim**, Hyunho Ha, “High-Resolution 3D Scanning Method Using Real-Time Acquisition Of Surface Normals And The System Thereof”, KR Patent App.: 10-2022-0017271, published in February 10, 2022.
- [K24] Gun Bang, Jung Won Kang, Soo Woong Kim, Seong Jun Bae, Jin Ho Lee, Ha Hyun Lee, Sung Chang Lim, **Min Hyuk Kim**, Da Hyun Kang, “Estimating high-accuracy depth information from light fields using optical flow”, KR Patent App.: 10-2021-0162409, published in November 23, 2021.
- [K25] **Min Hyuk Kim**, Daniel S. Jeon, “Image Acquisition Method For TOF Camera”, KR Patent App.: 10-2021-0090674, published in July 12, 2021.
- [K26] Donghun Kang, **Min Hyuk Kim**, Hyeonjoong Jang, “Method For Estimating Angle Values Of Spherical Image Using Equal Epipolar Line Subdivision And Apparatus Therefore”, KR Patent App.: 10-2021-0049639, published in April 16, 2021.

- [K27] Won-Seok Choi, Hyun Sang Park, **Min Hyuk Kim**, Chong-Min Kyung, “Gray Pixel Detection Method For White Balancing And System Thereof”, KR Patent App.: 10-2021-0025347, published in February 25, 2021.
- [K28] **Min Hyuk Kim**, Joo Ho Lee, Hyunjin Ku, Dahyun Kang, Hyunho Ha, “Capturing spatially-varying reflectance functions using a mobile phone with a flash”, KR Patent App.: 10-2020-0130867, published in October 12, 2020.
- [K29] Gun Bang, Jung Won Kang, Soo Woong Kim, Seong Jun Bae, Jin Ho Lee, Ha Hyun Lee, Sung Chang Lim, **Min Hyuk Kim**, Da Hyun Kang, “Method And Apparatus For Estimating High-Accuracy Depth Information From Light Fields Using Optical Flow”, KR Patent App.: 10-2020-0158756, published in November 24, 2020.
- [K30] Se-Yoon Jeong, Tae-Jin Lee, Shin-Young Yi, **Min Hyuk Kim**, “Video Compression Method and Apparatus to Support Content Background Luminance-Adaptive Opto-Electric/Electro-Optic Transfer Functions”, KR Patent App.: 10-2019-0156250, published in November 29, 2019.
- [K31] Se-Yoon Jeong, **Min Hyuk Kim**, Shin-Young Yi, Jung-won Kang, Hui-yong Kim, Ha-kyeong Kim, “Method And Apparatus for Opto-Electric/Electro-Optic Transfer”, KR Patent App.: 10-2019-0150312, published in November 21, 2019.
- [K32] Jeong, Se-Yoon, **Min Hyuk Kim**, Yi, Shin-Young, Kang, Jung-Won, Kim, Hui-Yong, Kim, Ha-Kyeong, “Apparatus And Method For Converting Luminance-Adaptive Opto-Electric/Electro-Optic For HDR Video Transfer And Compression”, KR Patent App.: 10-2018-0148957, published in November 27, 2018.
- [K33] **Min Hyuk Kim**, Inchang Choi, “Method for Rendering the Virtual Viewpoint Image Based on Collaboration With a Plurality of Camera Devices”, KR Patent App.: 10-2018-0025603, published in March 5, 2018.

INVITED TALKS

Keynote Speeches (at International Conferences):

- [1] **CAD/Graphics 2019**, Qingdao, China, “Beyond Human Vision - Seeing More with Camera,” May 5–7, 2019
- [2] Asian Conference on Design and Digital Engineering (ACDDE), Seoul, Korea, “Visual Computing with Camera in 3D Graphics,” August 13, 2013

Workshops/Seminars/Tutorials:

- [3] **Imperial College London**, “Physical Imaging Beyond Human Vision: From Spectrum to Polarization,” Invited talk Sep. 25, 2025
- [4] **NVIDIA**, “Geometry-Aware Omnidirectional Imaging for Efficient Scene Understanding,” Invited talk Jun. 16, 2024
- [5] **University of Hong Kong**, “Self-Calibrating, Fully Differentiable NLOS Inverse Rendering,” Workshop on Frontiers of Image Science and Visual Computing, Apr. 8, 2024
- [6] **National Institute of Agricultural Sciences**, “Introduction to Advanced Hyperspectral Imaging Technology,” Mar. 25, 2024
- [7] **Samsung Display**, “Introduction to Computer Vision,” Jul. 15–Sep. 2, 2022
- [8] **Huawei Technologies Japan**, Tokyo Research Center, “Physics-based material estimation: Differentiable Acquisition of Appearance and 3D Geometry,” in Digital Human Workshop, Dec. 13, 2021
- [9] **China Society of Image and Graphics (CSIG)**, International Seminar on Differentiable Acquisition of Visual Information, “Differentiable Acquisition of Appearance & 3D Geometry,” Oct. 23, 2021
- [10] **Samsung Display**, “Introduction to Computer Vision,” Apr. 7–Jun. 11, 2021
- [11] **University of Seoul**, “Advanced Image-based Modeling for Capturing High-Fidelity SVBRDFs,” Jan. 19, 2021

- [12] **Huawei Technologies Japan**, Tokyo Research Center, “Advanced Image-based Modeling for Capturing High-Fidelity SVBRDFs,” Mar. 27, 2020
- [13] **Microsoft Research Asia (MSRA)**, Microsoft Research Asia Academic Day Workshop 2019, “Compact Snapshot Hyperspectral Imaging with Diffracted Rotation,” Nov. 7–8, 2019
- [14] **Beijing Institute of Technology (BIT)**, invited by Prof. Lizhi Wang, “Advanced Hyperspectral Imaging,” Oct. 16, 2018
- [15] **Microsoft Research Asia (MSRA)**, Beijing, invited by Dr. Xin Tong, “Advanced Hyperspectral Imaging,” Oct. 15, 2018
- [16] **University of Science and Technology of China (USTC)**, invited by Prof. Xuejin Chen, “Advanced Hyperspectral Imaging,” July 30, 2018
- [17] **University of Reims Champagne-Ardenne** in France, invited by Prof. Celine Loscos, “Advanced Hyperspectral Imaging,” July 20, 2018
- [18] **Imperial College London** in UK, invited by Prof. Abhijeet Ghosh, “Advanced Hyperspectral Imaging,” July 16, 2018
- [19] International Symposium on Computational Design & Engineering (ISCDE), Ho Chi Minh, Vietnam, “3D Imaging Foundations for Augmented Reality and Virtual Reality,” (Tutorial) December 15, 2017
- [20] Samsung Advanced Institute of Technology (SAIT), Suwon, Korea, “Capturing the Real World to Make Graphics Closer to Reality,” August 30, 2017
- [21] International Conference on Computer Animation and Social Agents (CASA), Seoul, Korea, “3D Imaging for Acquiring Realistic 3D Objects for Virtual Reality and Augmented Reality,” (Tutorial) May 23, 2017
- [22] **Asia Faculty Summit of Microsoft Research**, Seoul, Korea, “Capturing the Real World to Make Graphics Closer to Reality,” November 4, 2016
- [23] NAVER Labs, Seongnam, Korea, “Closer to Reality: Capturing, Understanding and Interacting in Computer Graphics,” Feb. 25, 2016
- [24] Koh Young Technology, Seoul, Korea, “Introduction to 3D Imaging Based on Structured Lighting,” Aug. 20, 2015
- [25] Summer Conference of Society of CAD/CAM Engineers, Myongji University, Yongin-si, Korea, “Introduction to Hyperspectral 3D Imaging,” Aug. 19, 2015
- [26] ETRI (Electronics and Telecommunications Research Institute), Daejeon, Korea, “Introduction to Hyperspectral 3D Imaging,” Jul. 28, 2015
- [27] **Yale University**, Department of Computer Science, New Haven, **USA**, “Introduction to Hyperspectral 3D Imaging,” Feb. 17, 2015
- [28] **TECHNION**, KAIST–TECHNION Symposium, Haifa, **Israel**, “Advanced Imaging and Perception of Material Appearance,” Dec. 07, 2014
- [29] Kolon, Techno-Leadership Course, Daejeon, Korea, “Advanced 3D Imaging and Perception of Material Appearance,” Jul. 19, 2014
- [30] UNIST, School of Design and Human Engineering, Ulsan, Korea, “Advanced 3D Imaging and Perception of Material Appearance,” May 20, 2014
- [31] KAIST, Bio and Brain Engineering Department, Daejeon, Korea, “Advanced 3D Imaging and Perception of Material Appearance,” April 16, 2014
- [32] **National Tsing Hua University**, Asian Workshop on Smart Sensor System, Hualien, **Taiwan**, “Advanced Imaging and Perception of Material Appearance,” March 21, 2014
- [33] Koh Young Technology, Seoul, Korea, “Advanced 3D Imaging for Analyzing Materials,” October 27, 2013
- [34] POSTECH, Computer Science Department, Pohang, Korea, “Advanced Imaging and Perception of Material Appearance,” October 2, 2013
- [35] **Zhejiang University**, State Key Lab. of CAD & CG, Hangzhou, **China**, “High-Fidelity Acquisition and Representation in Graphics,” July 16, 2013

- [36] International Symposium on Ubiquitous Virtual Reality (ISUVR), Daejeon, Korea, “Visual Perception for High-Fidelity Representation in Graphics,” July 12, 2013
- [37] KOLON-KAIST LSI Center Colloquium, Daejeon, Korea, “High-Fidelity Color Representation in Computer Graphics,” June 13, 2013
- [38] KAIST CS & WebST Colloquium, Daejeon, Korea, “Visual Computing with Camera,” June 10, 2013
- [39] Center for Integrated Smart Sensor (CISS) Workshop, Daejeon, Korea, “Advanced Image Processing Techniques: 3D Photography,” June 5, 2013
- [40] LG Electronics, Software Platform R&D Lab., Seoul, Korea, “High Fidelity in Computer Graphics,” May 22, 2013
- [41] Center for Integrated Smart Sensor (CISS) Seminar, Daejeon, Korea, “Visual Computing in Computer Graphics,” February 27, 2013
- [42] Samsung Electronics, DMC R&D Center, Suwon, Korea, “The Future of the Camera,” November 15, 2012
- [43] KAIST, Computer Science Dept., Daejeon, Korea, “High-Fidelity Representation in Computer Graphics,” November 2, 2011
- [44] **Vision@UCL, London, UK**, “Modelling Human Colour Perception under Extended Luminance Levels,” October 8, 2009

SUPERVISION

Current PhD Students:

- [1] Inseung Hwang (황인승), Polarimetric imaging, March 2020–ongoing, PhD, KAIST, Korea
- [2] Hakyong Kim (김하경), learning-based 3D vision, March 2021–ongoing, PhD, KAIST, Korea
- [3] Donggun Kim (김동건), high-quality 3D scene reconstruction, March 2022–ongoing, PhD, KAIST, Korea
- [4] Inchul Kim (김인철), Real-time 4D reflectance imaging, September 2022–ongoing, PhD, KAIST, Korea
- [5] Hyeongjun Cho (조형준), 3D imaging, March 2023–ongoing, PhD, KAIST, Korea
- [6] Jaemin Cho (조재민), 3D imaging, August 2023–ongoing, PhD, KAIST, Korea
- [7] Jiwoong Na (나지웅), Dual-pixel imaging, March 2024–ongoing, PhD, KAIST, Korea
- [8] Dongyoung Choi (최동영), Neural rendering, March 2024–ongoing, PhD, KAIST, Korea
- [9] Sanghyeon Lee (이상현), Sensor fusion, September 2024–ongoing, PhD, KAIST, Korea
- [10] Seungmin Hwang (황승민), Hyperspectral imaging, March 2025–ongoing, PhD, KAIST, Korea
- [11] Seeha Lee (이시하), HDR imaging, March 2025–ongoing, PhD, KAIST, Korea

Current MS Students:

- [12] Woohyun Kang (강우현), 3D imaging, September 2024–ongoing, MS, KAIST, Korea
- [13] Harin Kim (김하린), 3D imaging, March 2025–ongoing, MS, KAIST, Korea
- [14] Seung Chan Hwang (황승찬), 3D imaging, March 2026–ongoing, MS, KAIST, Korea
- [15] Jong Mo Park (박종모), Hyperspectral imaging, September 2026–ongoing, MS, KAIST, Korea

Supervised PhDs:

- [1] Kiseok Choi (최기석), *Physically based CT Reconstruction with Differentiable Rendering*, March 2021–February 2026, PhD, KAIST, Korea
(Current position) **Postdoc researcher, KAIST VCLAB, Korea**
- [2] Hyunho Ha (하현호), *Physically-based 4D Acquisition of Geometry and Appearance*, March 2019–February 2025, PhD, KAIST, Korea
(Current position) **Research Scientist, NAVER Labs, Korea**
- [3] Hyeonjoong Jang (장현중), *Omnidirectional 3D Scene Reconstruction in the Wild*, August 2019–February 2025, PhD, KAIST, Korea
(Current position) **Team Leader, Research Institute, Hypergram Inc., Korea**

- [4] Shinyoung Yi (이신영), *Extending Mueller Calculus to the Directional Domain for Polarized Light Transport*, September 2020–February 2025, PhD, KAIST, Korea
(Current position) **Professor of Computer Science, Kyung Hee University, Korea**
- [5] Andreas Meuleman, *Integrated RGB-D Imaging for Efficient 3D Scene Understanding*, March 2020–August 2023, PhD, KAIST, Korea
(Current position) **Postdoctoral Research Scientist, INRIA, France**
- [6] Daniel S. Jeon (전석준), *Physically-based Phasor Imaging for Advanced Scene Understanding*, September 2016–February 2023, PhD, KAIST, Korea
(Current position) **Research Institute Director, Hypergram Inc., Korea**
- [7] Joo Ho Lee (이주호), *Digital Reproduction of Scene Appearance for High-Fidelity Computer Graphics*, September 2014– September 2020, PhD, KAIST, Korea
(Current position) **Professor of Computer Science, Sogang University, Korea**
- [8] Giljoo Nam (남길주), *Image-based Modeling for High-quality 3D Geometry and Reflectance*, September 2015–August 2019, PhD, KAIST, Korea
(Current position) **Research Scientist, Meta Reality Labs, Pittsburgh, PA, United States**
- [9] Inchang Choi (최인창), *Learning-Based Image Reconstruction for Computational Photography*, February 2012–February 2019, PhD, KAIST, Korea
(Current position) **Camera Algorithm & Prototyping Architect, Apple, California, United States**
- [10] Seung-Hwan Baek (백승환), *Computational Imaging with Light Waves*, March 2015–February 2019, PhD, KAIST, Korea
(Current position) **Professor of Computer Science, POSTECH, Korea**

Supervised Masters:

- [11] Yeonwoo Lim (임연우), *Reinforcement-Learned Adaptive Optical Modulation for Compressive Hyperspectral Imaging*, March 2024–February 2026, MS, KAIST, Korea
- [12] Yejoon Kwon (권예준), *Grid-Aware Transformers for High-Fidelity Depth Estimation in Front-Parallel Light Fields* March 2024–February 2026, MS, KAIST, Korea
- [13] Sanghyeon Lee (이상현), *Multi-Lane Detection and Tracking using Temporally-Recursive Catmull-Rom Splines*, September 2022–September 2024, MS, KAIST, Korea
- [14] Jiwoong Na (나지웅), *Developing an HDR 3D Imaging Algorithm for an Ultra-thin Light-Field Camera*, March 2022–February 2024, MS, KAIST, Korea
- [15] Dongyoung Choi (최동영), *OmniLocalRF: Omnidirectional Local Radiance Fields from Dynamic Videos*, March 2022–February 2024, MS, KAIST, Korea
- [16] Jaemin Cho (조재민), *Physically-Based Neural Rendering of Multiplane Images*, August 2021–August 2023, MS, KAIST, Korea
- [17] Hyeongjun Cho (조형준), *Multiview Phase-Measuring Profilometry Calibration using a Static Target*, March 2020–March 2023, MS, KAIST, Korea
- [18] Jung Woo Kim (김정우), *Demosaicing a Time-Varying Exposures Array for Snapshot HDR Imaging*, March 2021–February 2023, MS, KAIST, Korea
- [19] Mustafa Yaldiz, *Representation Learning-Based Image Restoration for High-Performance Computational Imaging*, March 2020–August 2022, MS, KAIST, Korea
- [20] Donggun Kim (김동건), *Real-time image restoration of sub-aperture images for ultra-thin light field cameras*, September 2020–February 2022, MS, KAIST, Korea
- [21] Hyunjin Ku (구현진), *Practical SVBRDF Acquisition of 3D Objects from Single-View RGB-D Images*, March 2019–February 2021, MS, KAIST, Korea
- [22] Hakyong Kim (김하경), *High-Quality Stereo Image Restoration from Double Refraction*, March 2019–February 2021, MS, KAIST, Korea

- [23] Dahyun Kang (강다현), *View-dependent Scene Appearance Synthesis using Inverse Rendering from Light Fields*, March 2019–February 2021, MS, KAIST, Korea
- [24] Shinyoung Yi (이신영), *Modeling Surround-Aware Contrast Sensitivity for HDR Applications*, March 2018–August 2020, MS, KAIST, Korea
- [25] Inseung Hwang (황인승), *Single-shot Acquisition of Cylindrical Mesostructure Normals using Diffuse Illumination*, March 2018–February 2020, MS, KAIST, Korea
- [26] Hyeonjoong Jang (장현중), *Fast Omnidirectional Depth Densification*, August 2017–August 2019, MS, KAIST, Korea
- [27] Hyunho Ha (하현호), *Dynamic Acquisition of SVBRDF, Geometry and Motion Using a Single RGBD Camera*, March 2017–February 2019, MS, KAIST, Korea
- [28] Yeong Beum Lee (이영범), *Integrated Calibration of Multiview Phase-Measuring Profilometry*, April 2014–February 2018, MS, KAIST, Korea
- [29] Mingyun Kang (강민균), *Real-Time HDR Video Tone Mapping for High Efficiency Video Coding*, March 2016–February 2018, MS, KAIST, Korea
- [30] Incheol Kim (김인철), *Dehazing using Non-Local Regularization with Iso-Depth Neighbor-Fields*, March 2015–February 2017, MS, KAIST, Korea
- [31] Daniel S. Jeon (전석준), *Multisampling Compressive Video Spectroscopy*, July 2014–August 2016, MS, KAIST, Korea
- [32] Haebom Lee (이해봄), *Building a Two-Way Hyperspectral Imaging System with Liquid Crystal Tunable Filters*, September 2014–August 2015, MS, KAIST, Korea
- [33] Seung-Hwan Baek (백승환), *Stereo Fusion using a Refractive Medium on a Binocular Base*, April 2013–February 2015, MS, KAIST, Korea
- [34] Giljoo Nam (남길주), *Developing a Multispectral Photometric Stereo System for Acquiring High-Fidelity Surface Normals*, September 2012–August 2014, MS, KAIST, Korea
- [35] Joo Ho Lee (이주호), *Locally Adaptive Products for Genuine Spherical Harmonic Lighting*, September 2012–August 2014, MS, KAIST, Korea

Supervised Students in Other Universities:

- [36] Erika Astegiano, *Gaussian Splatting-based SLAM*, August 2025–November 2025, MS, Polytechnic University of Turin, Italy
- [37] Andréas Meuleman, *Birefractive stereo imaging*, December 2017–August 2018, MS, INSA-Rouen, France
- [38] Antoine Nicole, *Visualizing dynamic computer graphics models*, December 2017–August 2018, MS, UTBM, France
- [39] Lou Kramer, *Estimating BRDF from light field*, September 2016–August 2017, MS, Technical University of Munich (TUM), Germany
- [40] Patrick Paczkowski, *3D modeling*, December 2010–2017, PhD, co-supervised with Prof. Julie Dorsey, Yale University, USA

TEACHING

KAIST, Korea (2012–Present, taught in English):

- [1] CS580 (2026 Spring): Computer Graphics (Eval.: /5.00)
- [2] CS484 (2025 Fall): Introduction to Computer Vision (Eval.: 4.27/5.00)
- [3] CS380 (2025 Spring): Introduction to Computer Graphics (Eval.: 4.59/5.00)
- [4] CS484 (2024 Fall): Introduction to Computer Vision (Eval.: 4.55/5.00)
- [5] CS101 (2024 Spring): Introduction to Programming (Eval.: 4.35/5.00)
- [6] CS484 (2023 Fall): Introduction to Computer Vision (Eval.: 4.37/5.00)

[7]	CS580 (2023 Spring): Interactive Computer Graphics	(Eval.: 4.58/5.00)
[8]	CS101 (2023 Spring): Introduction to Programming	(Eval.: 4.35/5.00)
[9]	CS484 (2022 Fall): Introduction to Computer Vision	(Eval.: 4.09/5.00)
[10]	CS482 (2022 Fall): Interactive Computer Graphics	(Eval.: 4.16/5.00)
[11]	CS101 (2022 Spring): Introduction to Programming	(Eval.: 4.39/5.00)
[12]	CS484 (2021 Fall): Introduction to Computer Vision	(Eval.: 4.49/5.00)
[13]	CS380 (2021 Spring): Introduction to Computer Graphics	(Eval.: 4.50/5.00)
[14]	CS101 (2021 Spring): Introduction to Programming (C/D)	(Eval.: 4.40/5.00)
[15]	CS484 (2020 Fall): Introduction to Computer Vision	(Eval.: 4.26/5.00)
[16]	CS482 (2020 Spring): Computer Graphics	(Eval.: 4.05/5.00)
[17]	CS482 (2019 Fall): Interactive Computer Graphics	(Eval.: 4.53/5.00)
[18]	CS484 (2019 Fall): Introduction to Computer Vision	(Eval.: 4.25/5.00)
[19]	CS576 (2019 Spring): Computer Vision	(Eval.: 3.96/5.00)
[20]	CS484 (2018 Fall): Introduction to Computer Vision	(Eval.: 4.00/5.00)
[21]	CS380 (2018 Spring): Introduction to Computer Graphics	(Eval.: 4.64/5.00)
[22]	CS681 (2017 Fall): Computational Colorimetry	(Eval.: 4.75/5.00)
[23]	CS580 (2017 Spring): Computer Graphics	(Eval.: 4.07/5.00)
[24]	CS101 (2017 Spring): Introduction to Programming	(Eval.: 4.57/5.00)
[25]	CS482 (2016 Fall): Interactive Computer Graphics	(Eval.: 4.32/5.00)
[26]	COE203 (2016 Fall): Design Project for IT Convergence	(Eval.: 5.00/5.00)
[27]	CS101 (2016 Spring): Introduction to Programming (C/D)	(Eval.: 4.18/5.00)
[28]	CS681 (2015 Fall): Computational Colorimetry	(Eval.: 4.60/5.00)
[29]	COE203 (2015 Fall): Design Project for IT Convergence	(Eval.: 3.84/5.00)
[30]	CS101 (2015 Spring): Introduction to Programming (G/H)	(Eval.: 4.16/5.00)
[31]	CS380 (2015 Spring): Introduction to Computer Graphics	(Eval.: 4.22/5.00)
[32]	ITC203 (2014 Fall): Design Project for IT Convergence	(Eval.: 4.43/5.00)
[33]	CS101 (2014 Fall): Introduction to Programming (G/H)	(Eval.: 4.23/5.00)
[34]	CS681 (2014 Fall): Computational Colorimetry	(Eval.: 4.08/5.00)
[35]	CS580 (2014 Spring): Computer Graphics	(Eval.: 4.48/5.00)
[36]	CS492B (2013 Fall): Intermediate Computer Graphics	(Eval.: 4.52/5.00)
[37]	CS101 (2013 Spring): Introduction to Programming (K/L)	(Eval.: 4.10/5.00)
[38]	CS780 (2012 Fall): Computational Colorimetry	(Eval.: 4.89/5.00)