

Andréas MEULEMAN | Researcher

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Education

KAIST Visual Computing Lab (Advisor Min H. Kim) <i>PhD in Computer Science</i>	Daejeon, South Korea 2020 - 2023
INSA Rouen Normandie <i>MSc in Applied Mathematics & Computer Science</i>	Rouen, France 2013 - 2019

Work Experience

Inria GraphDeco <i>Starting research position</i> <i>Postdoctoral researcher</i>	France Since 2024 2023 - 2024
Meta <i>Research scientist intern, six months</i>	United States of America 2022
Imagination Technologies <i>Graphics research placement, six months</i>	United Kingdom 2018 - 2019
Keyveo <i>Summer intern, 3D application development, three months</i>	France 2017
Bangor University <i>Summer intern, three months</i>	United Kingdom 2016

Publications

- [1] **Andreas Meuleman**, Ishaan Shah, Alexandre Lanvin, Bernhard Kerbl, and George Drettakis. On-the-fly Reconstruction for Large-Scale Novel View Synthesis from Unposed Images. *ACM TOG (proc. SIGGRAPH)*, 2025.
- [2] Nicolás Violante, **Andreas Meuleman**, Alban Gauthier, Fredo Durand, Thibault Groueix, and George Drettakis. Splat and Replace: 3D Reconstruction with Repetitive Elements. *SIGGRAPH Conference Papers*, 2025.
- [3] Bernhard Kerbl*, **Andreas Meuleman***, Georgios Kopanas, Michael Wimmer, Alexandre Lanvin, and George Drettakis. A Hierarchical 3D Gaussian Representation for Real-Time Rendering of Very Large Datasets. *ACM TOG (proc. SIGGRAPH)*, 2024.
- [4] Hakyong Kim, **Andreas Meuleman**, Hyeonjoong Jang, James Tompkin, and Min H. Kim. OmniSDF: Scene Reconstruction using Omnidirectional Signed Distance Functions and Adaptive Binotrees. *CVPR*, 2024.
- [5] **Andreas Meuleman**, Yu-Lun Liu, Chen Gao, Jia-Bin Huang, Changil Kim, Min H. Kim, and Johannes Kopf. Progressively Optimized Local Radiance Fields for Robust View Synthesis. *CVPR*, 2023.
- [6] Yu-Lun Liu, Chen Gao, **Andreas Meuleman**, Hung-Yu Tseng, Ayush Saraf, Changil Kim, Yung-Yu Chuang, Johannes Kopf, and Jia-Bin Huang. Robust Dynamic Radiance Fields. *CVPR*, 2023.
- [7] Daniel S. Jeon, **Andreas Meuleman**, Seung-Hwan Baek, and Min H. Kim. Polarimetric iToF: Measuring High-Fidelity Depth through Scattering Media. *CVPR, Highlight*, 2023.
- [8] **Andreas Meuleman**, Hakyong Kim, James Tompkin, and Min H. Kim. FloatingFusion: Depth from ToF and Image-stabilized Stereo Cameras. *ECCV*, 2022.

- [9] Hyeonjoong Jang, **Andreas Meuleman**, Dahyun Kang, Donggun Kim, Christian Richardt, and Min H. Kim. Egocentric Scene Reconstruction from an Omnidirectional Video. *ACM TOG (proc. SIGGRAPH)*, 2022.
- [10] Mustafa B. Yaldiz, **Andreas Meuleman**, Hyeonjoong Jang, Hyunho Ha, and Min H. Kim. DeepFormable-Tag: End-to-End Generation and Recognition of Deformable Fiducial Markers. *ACM TOG (proc. SIGGRAPH)*, 2021.
- [11] **Andreas Meuleman**, Hyeonjoong Jang, Daniel S. Jeon, and Min H. Kim. Real-Time Sphere Sweeping Stereo from Multiview Fisheye Images. *CVPR, Oral*, 2021.
- [12] Hakyong Kim, **Andreas Meuleman**, Daniel S. Jeon, and Min H. Kim. High-Quality Stereo Image Restoration from Double Refraction. *CVPR*, 2021.
- [13] Hyunho Ha, Joo Ho Lee, **Andreas Meuleman**, and Min H. Kim. NormalFusion: Real-Time Acquisition of Surface Normals for High-Resolution RGB-D Scanning. *CVPR*, 2021.
- [14] **Andreas Meuleman***, Seung-Hwan Baek*, Felix Heide, and Min H. Kim. Single-Shot Monocular RGB-D Imaging using Uneven Double Refraction. *CVPR, Oral*, 2020.
- [15] Aaron Sutar, **Andreas Meuleman**, Pierre-Frédéric Villard, Marcos García, and Franck Vidal. gVirtualXRay: Virtual X-Ray Imaging Library on GPU. *CGVC*, 2017.

Awards

Selected for the Excellence Fellowships for Young Researchers 2024, IdEx of Université Côte d’Azur: 2024

Talks

2024: A Hierarchical 3D Gaussian Representation:

- GT Rendu
- Inria Nancy

Reviewer for Journals and Conferences

ACM TOG (SIGGRAPH, SIGGRAPH Asia), CVPR, ISMAR, TVCG, TPAMI, ICRA, Eurographics (CGF), Computer & Graphics, TCI