

# FLORIAN BARTHEL

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PhD Student at Humboldt University of Berlin | Researcher at Fraunhofer HHI

 Homepage

 Scholar

 GitHub

 LinkedIn

## PUBLICATIONS

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### PhD

- NeurIPS'25 CGS-GAN: 3D Consistent Gaussian Splatting GANs for High Resolution Human Head Synthesis
- CVPRW'24 Gaussian Splatting Decoder for 3D-aware Generative Adversarial Networks
- VISAPP'24 Multi-view Inversion for 3D-aware Generative Adversarial Networks

### 3DGS Compression

- ECCV'24 SOG: Compact 3D Scene Representation via Self-Organizing Gaussian Grids (2nd Author)
- Eurographics'25 A Survey on 3D Gaussian Splatting Compression Methods (4th Author)

### Grid Sorting

- EUSIPCO'25 Permutation Learning with Only N Parameters (2nd Author)
- ICMR'24 Creating Sorted Grid Layouts with Gradient-based Optimization (2nd Author)

### Supervised Thesis

- CVMP'25 3D-LaSR: 3D-Aware Latent-Space Reenactment [Best Paper Award]
- VISAPP'25 Improving Adaptive Density Control for 3D Gaussian Splatting

### Student Publications

- ICCV'23 Haystack: A Panoptic Scene Graph Dataset to Evaluate Rare Predicate Classes (2nd Author)
- SNCS'22 Controlling 3D Objects in 2D Image Synthesis (Master Thesis)

## GITHUB PROJECTS

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- splatviz Interactive 3DGS viewer in python (>1500 ☆)
- 3DGS.zip Interactive comparison of 3DGS compression methods (>200 ☆)

## WORK EXPERIENCE

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- Oct 2022 – Present Fraunhofer Heinrich Hertz Institute: Researcher in the Vision and Imaging Technologies group
- April 2021 - Sep 2023 University of Augsburg: Research Assistant at the Machine Learning and Computer Vision Chair

## EDUCATION

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- Oct 2022 – Present Humboldt University of Berlin: PhD Student at the chair for Visual Computing
- Oct 2017 – July 2023 University of Augsburg: Bachelor & Master in Computer Science

Berlin, 08.03.2026