

Education

University College London (UCL) Doctorate of Philosophy (Ph.D.), Computer Science, Supervised by Tobias Ritschel and Niloy J. Mitra	UK, London 2018-2023
Ulm University Master of Science (with distinction), Media Informatics - 1.1 (1.0 best)	GER, Ulm 2015-2017
Ulm University Bachelor of Science, Media Informatics - 1.3 (1.0 best)	GER, Ulm 2012-2015

Professional Experience

Google , Research Scientist Working on Generative 3D AI.	UK, London / USA, San Francisco Sep 2022 - Feb 2023 / Feb 2023 - present
Adobe Research , Research Intern Worked with Milos Hasan, Kalyan Sunkavalli, Valentin Deschaintre, Zexiang Zu on Textures and Materials.	UK, London Jun - Dec 2021
Meta AI , Research Intern Worked with David Novotny and Andrea Vedaldi on 3D Reconstruction from Videos.	UK, London Jun - Sep 2020
University College London (UCL) , Postgraduate Teaching Assistant (PGTA) Courses: Machine Learning, Computer Graphics and Machine Vision.	UK, London Oct 2018 - Dec 2021
Ulm University / Robert Bosch GmbH , Research Assistant Object detection / tracking using dynamic occupancy grid maps for autonomous driving.	GER, Ulm Nov 2017 - Apr 2018

Publications

- Gao, R., Holynski, A., **Henzler, P.**, Brussee, A., Martin-Brualla, R., Srinivasan, P., Barron, J.T. and Poole, B., CAT3D: Create Anything in 3D with Multi-View Diffusion Models. arXiv 2024
- Wu, R., Mildenhall, B., **Henzler, P.**, Park, K., Gao, R., Watson, D., Srinivasan, P.P., Verbin, D., Barron, J.T., Poole, B. and Holynski, A., Reconfusion: 3d reconstruction with diffusion priors. CVPR 2024
- Park, K., **Henzler, P.**, Mildenhall, B., Barron, J.T. and Martin-Brualla, R., Camp: Camera preconditioning for neural radiance fields. SIGGRAPH Asia 2023 (**Journal paper**)
- Reizenstein, J., Shapovalov, R., **Henzler, P.**, Sbordone, L., Labatut, P., Novotny, D., Common Objects in 3D: Large-Scale Learning Evaluation of Real-life 3D Category Reconstruction. ICCV 2021. (**Oral, Best Paper Honorable Mention**)
- Henzler, P.**, Reizenstein, J., Labatut, P., Shapovalov, R., Ritschel, T., Vedaldi, A., Novotny, D., Unsupervised Learning of 3D Object Categories from Videos in the Wild. CVPR 2021.
- Henzler, P.**, Deschaintre, V., Mitra, N.J., Ritschel, T., Generative Modelling of BRDF Textures from Flash Images. SIGGRAPH Asia 2021. (**Journal paper**)
- Henzler, P.**, Mitra, N.J., Ritschel, T., Learning a Neural 3D Texture Space From 2D Exemplars. CVPR 2020.
- Henzler, P.**, Mitra, N.J., Ritschel, T., Escaping Plato's Cave: 3D Shape From Adversarial Rendering. ICCV 2019.
- Engel, N., Hoermann, S., **Henzler, P.**, Dietmayer, K., Deep Object Tracking on Dynamic Occupancy Grid Maps Using RNNs. ITSC 2018.
- Hoermann, S., **Henzler, P.**, Bach, M., Dietmayer, K., Object Detection on Dynamic Occupancy Grid Maps Using Deep Learning and Automatic Label Generation. IV 2018.
- Henzler, P.**, Rasche, V., Ropinski, T., Ritschel, T., Single-image Tomography: 3D Volumes from 2D X-Rays. EG 2018. (Master Thesis)
- Dobbelstein, D., **Henzler, P.**, Rukzio, E., Unconstrained Pedestrian Navigation based on Vibro-tactile Feedback around the Wristband of a Smartwatch. CHI 2016. (Bachelor Thesis)

Awards & Scholarships

Eurographics PhD Thesis Award	2024
Rabin Ezra Scholarship	2021
Department of Computer Science UCL & Google Fellowship Scholarship	2018
Winner of the Audi-App Challenge	2016

Reviewing

Conferences: NeurIPS(2023), CVPR(2022,2023), ECCV(2022,2024), ICCV(2022,2023), SIGGRAPH(2022,2024), SIGGRAPH Asia(2022,2023), Eurographics(2022,2024), SciVis(2019, 2020), EuroVis(2022), Visualization(2022)
Journals: CGF(2022,2024), TPAMI(2021,2022), TVCG(2022), Elsevier(2021)

Skills

Programming languages: Python, C++, Java, Javascript
Libraries: JAX, PyTorch, TensorFlow, OpenCV, OpenGL, WebGL, LaTeX, NodeJS
Software: Adobe Illustrator / Photoshop / After Effects / Premiere Pro, Blender, MeshLab