

Education

University College London (UCL)

Doctorate of Philosophy (Ph.D.), Computer Science
Computer Vision, Computer Graphics, Deep Learning and Machine Learning
Supervised by Tobias Ritschel and Niloy J. Mitra

UK, London
2018-present

Ulm University

Master of Science (with distinction), Media Informatics - 1.1 (1.0 best)
Deep Learning, Computer Graphics, Data Visualisation

Germany, Ulm
2015-2017

Ulm University

Bachelor of Science, Media Informatics - 1.3 (1.0 best)
Human-Computer-Interaction, User Interface Design

Germany, Ulm
2012-2015

Publications

Reizenstein, J., Shapovalov, R., **Henzler, P.**, Sbodorne, 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.

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)

Professional Experience

Adobe Research, Research Intern

Material Detail from Global Appearance Using Stochastic Textures
(Supervisors: Milos Hasan, Kalyan Sunkavalli, Valentin Deschaintre, Zexiang Zu)

US, San Jose (remote)
Jun - Sept 2021

Facebook AI Research (FAIR), Research Intern

Unsupervised 3D Learning from Videos (Supervisors: David Novotny, Andrea Vedaldi)

UK, London
Jun - Okt 2020

University College London (UCL), Postgraduate Teaching Assistant (PGTA)

Courses: Machine Learning, Computer Graphics and Machine Vision

UK, London
Oct 2018 - present

Ulm University (in collaboration with Robert Bosch GmbH), Research Assistant
Object detection / tracking using dynamic occupancy grid maps for autonomous driving

Germany, Ulm
Nov 2017 - Apr 2018

Charles Oakes & Co. S.à.r.l, Summer Intern

Created and developed an interactive web application for data collection

Spain, Alicante/Luxembourg
Aug - Oct 2016

Airbus Se, Summer Intern

Development of an intuitive user interface for administration of data

Germany, Immenstaad
Jul - Sep 2012, Mar - Apr 2013

Awards & Scholarships

Rabin Ezra Scholarship

2021

Department of Computer Science UCL & Google Fellowship Scholarship

2018

Winner of the Audi-App Challenge

2016

Midosa App - Conception and development of an innovative application for the car cockpit

Skills

Programming languages: Python, C++, Java, Javascript

Libraries: PyTorch, TensorFlow, OpenCV, OpenGL, WebGL, LaTeX, NodeJS

Software: Adobe Illustrator / Photoshop / After Effects / Premiere Pro, Blender, MeshLab, PyCharm, Microsoft Visual Studio Code

Version Control: Git