



Nikolai Kalischek

📍 Zürich, Switzerland

🐙 d1nofuzi.github.io

+ Education

11/2019 – Present

ETH Zurich, Switzerland

PhD in Computer Science in the Photogrammetry and Remote Sensing group, supervised by Prof. Konrad Schindler and Prof. Jan Dirk Wegner

10/2017 – 05/2019

University of Ulm, Germany

MSc in Computer Science (1.0, German system, GPA 4.0, best of the year)
Specialization in deep learning and computer vision

Master thesis: "Deep Domain Adaptation for Facial Expression Analysis" (1.0)

10/2013 – 12/2016

Berlin University of Technology, Germany

BSc in Mathematics (2.2 / GPA 2.8)
Main focus: graph theory and combinatorics

Bachelor thesis: "Topological drawings of bipartite graphs" (1.7 / 3.3)

09/2011 – 03/2012

University of Augsburg, Germany

Early study in Physics as a high school student

+ Selected Publications

Kalischek, N., Peters, T., Wegner, J. D., & Schindler, K. (2022). Tetrahedral Diffusion Models for 3D Shape Generation. Submitted to CVPR '23.

Kalischek, N., Daudt, R. C., Peters, T., Furrer, R., Wegner, J. D., & Schindler, K. (2022). BiasBed--Rigorous Texture Bias Evaluation. Submitted to CVPR '23.

Kalischek, N., Lang, N., Renier, C., Daudt, R., Addoah, T., Thompson, W., Blaser-Hart, W., Garrett, R., Schindler, K., and Wegner, J. 2022. Satellite-based high-resolution maps of cocoa for Cote d'Ivoire and Ghana. Under Review in Nature Food.

Lang, N., **Kalischek, N.**, Armston, J., Schindler, K., Dubayah, R., and Wegner, J. 2022. Global canopy height regression and uncertainty estimation from GEDI LIDAR waveforms with deep ensembles. Remote Sensing of Environment, 268, p.112760.

Kalischek, N., Wegner, J., and Schindler, K. 2021. In the light of feature distributions: moment matching for Neural Style Transfer. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2021).

Kalischek, N., Thiam, P., Bellmann, P., and Schwenker, F. 2019. Deep domain adaptation for facial expression analysis. In 2019 8th International Conference on Affective Computing and Intelligent Interaction Workshops and Demos (ACIIW) (pp. 317–323).

+	Awards 2019	Winner of 2019 eXXellence Award best Master thesis in Computer Science, University of Ulm
+	Talks 07/2022	Quantitative Remote Sensing Summer School, University of Maryland, USA Bayesian Deep Learning for remote sensing
+	Work experience 03/2020 – Present 12/2017 – 03/2019 09/2016 – 03/2017	ETH Zurich, Switzerland Teaching Assistant in the Photogrammetry and Remote Sensing group <ul style="list-style-type: none"> Photogrammetry Spring 2020, 2021, 2022 Daimler AG, Ulm, Germany Working student, Research and Development - Sensorfusion (20h / week) <ul style="list-style-type: none"> Implementation of a deep network for interpolation of sensor data Daimler AG, Stuttgart, Germany Internship Software Engineering, Changemanagement Daimler Trucks <ul style="list-style-type: none"> Full development of changemanagment webservice Rollout for Turkey and Brazil
+	Technical skills ML in Python Web development Others	PyTorch, TensorFlow, NumPy, Scikit-learn, Open3D, FFCV, Pandas, Matplotlib, rasterio, GDAL PHP, JavaScript, HTML, CSS, jQuery, Node.js Java, SQL, Git, Linux, Matlab
+	Languages German (native), English (fluent), Spanish (basic)	