



# Nikolai Kalischek

📍 Zurich, Switzerland

🌐 <https://d1nofuzi.github.io>

## + Education

11/2019 – Present	<b>ETH Zurich, Switzerland</b> 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	<b>University of Ulm, Germany</b> 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	<b>Berlin University of Technology, Germany</b> 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	<b>University of Augsburg, Germany</b> Early study in Physics as a high school student

## + Selected Publications

- 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

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| 2019 | <b>Winner of 2019 eXXellence Award</b><br>best Master thesis in Computer Science, University of Ulm |
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+	<b>Talks</b> 07/2022	<b>Quantitative Remote Sensing Summer School, University of Maryland, USA</b> Bayesian Deep Learning for remote sensing
+	<b>Work experience</b> 03/2020 – Present  12/2017 – 03/2019  09/2016 – 03/2017	<b>ETH Zurich, Switzerland</b> Teaching Assistant in the Photogrammetry and Remote Sensing group <ul style="list-style-type: none"> <li>Photogrammetry Spring 2020, 2021, 2022</li> </ul> <b>Daimler AG, Ulm, Germany</b> Working student, Research and Development - Sensorfusion (20h / week) <ul style="list-style-type: none"> <li>Implementation of a deep network for interpolation of sensor data</li> </ul> <b>Daimler AG, Stuttgart, Germany</b> Internship Software Engineering, Changemanagement Daimler Trucks <ul style="list-style-type: none"> <li>Full development of changemanagment webservice</li> <li>Rollout for Turkey and Brazil</li> </ul>
+	<b>Technical skills</b> 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
+	<b>Languages</b> German (native), English (fluent), Spanish (basic)	