Nikolai Kalischek

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d1nofuzi.github.io

Education

11/2019 — Present	**ETH Zurich, Switzerland** PhD in Computer Science 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) 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) Bachelor thesis: “Toplogical 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

Publications

Kalischek, N., Oechsle, M., Manhardt, F., Henzler, P., Schindler, K., & Tombari, F. (2025). CubeDiff: Repurposing Diffusion-Based Image Models for Panorama Generation. Accepted as **Spotlight** to International Conference on Learning Representations.

Kalischek, N., Peters, T., Wegner, J. D., & Schindler, K. (2024, September). TetraDiffusion: Tetrahedral Diffusion Models for 3D Shape Generation. In European Conference on Computer Vision (pp. 357-373). Cham: Springer Nature Switzerland.

Kalischek, N., Daudt, R. C., Peters, T., Furrer, R., Wegner, J. D., & Schindler, K. (2023). Biasbed - Rigorous Texture Bias Evaluation. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (pp. 22221-22230).

Kalischek, N., Lang, N., Renier, C., Daudt, R. C., Addoah, T., Thompson, W., Blaser-Hart W., Garrett R., Schindler K., & Wegner, J. D. (2023). Cocoa plantations are associated with deforestation in Côte d’Ivoire and Ghana. Nature Food, 4(5), 384-393.

Renier, C., Vandromme, M., Meyfroidt, P., Ribeiro, V., **Kalischek, N.**, & Zu Ermgassen, E. K. (2023). Transparency, traceability and deforestation in the Ivorian cocoa supply chain. Environmental Research Letters, 18(2), 024030.

Lang, N., **Kalischek, N.**, Armston, J., Schindler, K., Dubayah, R., & Wegner, J. D. (2022). Global canopy height regression and uncertainty estimation from GEDI LIDAR waveforms with deep ensembles. Remote sensing of environment, 268, 112760.

Kalischek, N., Wegner, J. D., & Schindler, K. (2021). In the light of feature distributions: moment matching for neural style transfer. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (pp. 9382-9391).

Kalischek, N., Thiam, P., Bellmann, P., & Schwenker, F. (2019, September). 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). IEEE.

Internships

02/2024 — 12/2024	**Google, Switzerland** Student Researcher supervised by Michael Oechsle, Fabian Manhardt, & Federico Tombari
09/2016 — 03/2017	**Daimler AG, Germany** Internship Software Engineering, CM Daimler Trucks

Work Experience

12/2017 — 03/2019	**Daimler AG, Germany** Working student, Research and Development - Sensorfusion (20h / week)

Programming

ML in Python	PyTorch, JAX, TensorFlow
Web development	PHP, JavaScript, HTML, CSS, jQuery
Others	C++, Java, SQL, Git, Linux, Matlab

Languages

German (native), English (fluent), Spanish (basic)