

Antonin Sulc

CONTACT INFORMATION	+49 152 265 75 325 sulc.antonin@gmail.com http://sulcantonin.github.io	Hamburg Germany
RESEARCH INTERESTS	Anomaly Detection, Computer Vision, Natural Language Processing	
TECHNOLOGIES	Python, PyTorch, Streamlit, PyCUDA, CUDA, R, TensorFlow, CUDA, MATLAB, C	
LANGUAGES	English (C1), German (B2), Czech (native)	
EDUCATION	University of Konstanz , Konstanz, Germany PhD, Computer Vision, 2015 - 2020 <ul style="list-style-type: none">• Thesis Topic: <i>Lightfield Analysis for non-Lambertian Scenes</i>• Grade: <i>Magna Cum Laude</i> (1.0)• Advisors: Prof. Dr. Bastian Goldlücke Czech Technical University , Prague, Czech Republic M.S., Artificial Intelligence, 2011 - 2014 <ul style="list-style-type: none">• Topic: <i>On parametric model creation with Neural Modeling Fields</i>, nominated as CS Master Thesis of Year 2014 in Czech Republic• Advisor: Dr. Michal Vavrecka B.S., Intelligent Systems, 2008 - 2011 <ul style="list-style-type: none">• Topic: <i>Covariance Matrix Adaptation Evolution Strategy</i>• Advisor: Dr. Jan Dřchal	
WORK HISTORY	Data Scientist MCS DESY Hamburg Accelerator Control Systems,	May'21 - ∞
	Researcher University of Haifa, Marine Imaging Lab Supervisor: Dr. Tali Treibitz	March'20 - August'20
	Researcher & Tutor University of Konstanz, Computer Vision and Image Processing Group Supervisor: Prof. Dr. Bastian Goldlücke,	Jan'15 - Sept'20
	Researcher National Institute of Informatics in Tokyo, Imari Sato Lab Supervisor: Prof. Dr. Imari Sato	Oct'18 - March'19
	Software Engineer & Data Scientist Vendavo Inc., Prague, Czech Republic MAAS Team, Building a Recommendation System Supervisor: Dr. Ludek Kopacek, Eric Bergerson	Feb'14 - Dec'15

PUBLICATIONS

1. **A. Sulc**, O. R. Kammering, T. Wilksen. A Data-Driven Beam Trajectory Monitoring at the European XFEL at *International Conference in Particle Accelerators 2022*, Bangkok, Thailand
2. **A. Sulc**, O. A. Eichler, T. Wilksen A Data-Driven Anomaly Detection on SRF Cavities at the European XFEL at *International Conference in Particle Accelerators 2022, Bangkok, Thailand and Institute of Physics Journal of Physics: Conference Series*
3. **A. Sulc**, O. Johannsen, B. Goldluecke. Recovery of Geometry, Natural Illumination and BRDF from a Single Light Field Image, In *Journal of the Optical Society of America A*, 2021,
4. **A. Sulc**, I. Sato, B. Goldluecke, T. Treibitz. Towards Monocular Shape from Refraction, In BMVC, 2021, **accepted as oral (3.3% acceptance)**
5. S. Ishihara, **A. Sulc**, I. Sato. Depth Estimation Using Spectrally Varying Defocus Blur. In *Journal of the Optical Society of America A*, 2021
6. S. Ishihara, **A. Sulc**, I. Sato. Depth from Spectral Defocus Blur. In *Proc. International Conference in Image Processing (ICIP)*, 2019
7. M. Zhu, A. Alperovich, O. Johannsen, **A. Sulc**, B. Goldluecke. An Epipolar Volume Autoencoder with Adversarial Loss for Deep Light Field Super-Resolution. In *Proc. Conference on Computer Vision and Pattern Recognition Workshop (CVPRW)*, 2019.
8. **A. Sulc**, O. Johannsen, B. Goldluecke. Inverse Lightfield Rendering for Shape, Reflection and Natural Illumination. In *Proc. 11th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR)*, 2017.
9. O. Johannsen, **A. Sulc**¹, N. Marniok, B. Goldluecke. Layered scene reconstruction from multiple light field camera views. In *Proc. Asian Conference on Computer Vision (ACCV)*, 2016.
10. **A. Sulc**, A. Alperovich, N. Marniok, B. Goldluecke. Reflection Separation in Light Fields based on Sparse Coding and Specular Flow. In *Proc. Vision, Modelling and Visualization (VMV)*, 2016.
11. O. Johannsen, **A. Sulc**, B. Goldluecke. Occlusion-aware depth estimation using sparse light field coding. In *Proc. German Conference on Computer Vision (GCPR)*, 2016.
12. O. Johannsen, **A. Sulc**, B. Goldluecke. What Sparse Light Field Coding Reveals About Scene Structure. In *Proc. Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016.
13. O. Johannsen, **A. Sulc**, B. Goldluecke. Variational Separation of Light Field Layers. In *Proc. Vision, Modelling and Visualization (VMV)*, 2015.
14. O. Johannsen, **A. Sulc**, B. Goldluecke. On Linear Structure from Motion for Light Field Cameras. In *Proc. International Conference on Computer Vision (ICCV)*, 2015.

¹Equal Contribution