

Antonin Sulc

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RESEARCH INTERESTS	Anomaly Detection, Combinatorial Optimisation, Applied Machine Learning, Computer Vision	
TECHNOLOGIES	Python, Pytorch, Streamlit, PyCUDA, CUDA, R, TensorFlow, CUDA, MATLAB, C, Massive Database Systems	
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 Drchal	
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