

Antonin Sulc

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RESEARCH INTERESTS	machine learning, anomaly detection, computer vision	
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	Data Scientist MCS DESY Hamburg Accelerator Control Systems, Researcher University of Haifa, Marine Imaging Lab Supervisor: Dr. Tali Treibitz Lecturer & Researcher University of Konstanz, Computer Vision and Image Processing Group Supervisor: Prof. Dr. Bastian Goldlücke, Researcher National Institute of Informatics in Tokyo, Imari Sato Lab Supervisor: Prof. Dr. Imari Sato Software Engineer & Data Scientist Vendavo Inc., Prague, Czech Republic MAAS Team, Building a Recommendation System Supervisor: Dr. Ludek Kopacek, Eric Bergerson	May'21 - ∞ March'20 - August'20 Jan'15 - Sept'20 Oct'18 - March'19 Feb'14 - Dec'15
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none">1. A. Sulc, O. Johannsen, B. Goldluecke. Recovery of Geometry, Natural Illumination and BRDF from a Single Light Field Image, In <i>Journal of the Optical Society of America A</i>, 2021,2. A. Sulc, I. Sato, B. Goldluecke, T. Treibitz. Towards Monocular Shape from Refraction, In BMVC, 2021, accepted as oral (3.3% acceptance)	

3. S. Ishihara, **A. Sulc**, I. Sato. Depth Estimation Using Spectrally Varying Defocus Blur. In *Journal of the Optical Society of America A*, 2021
4. S. Ishihara, **A. Sulc**, I. Sato. Depth from Spectral Defocus Blur. In *Proc. International Conference in Image Processing (ICIP)*, 2019
5. 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.
6. **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.
7. 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.
8. **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.
9. O. Johannsen, **A. Sulc**, B. Goldluecke. Occlusion-aware depth estimation using sparse light field coding. In *Proc. German Conference on Computer Vision (GCPR)*, 2016.
10. 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.
11. O. Johannsen, **A. Sulc**, B. Goldluecke. Variational Separation of Light Field Layers. In *Proc. Vision, Modelling and Visualization (VMV)*, 2015.
12. O. Johannsen, **A. Sulc**, B. Goldluecke. On Linear Structure from Motion for Light Field Cameras. In *Proc. International Conference on Computer Vision (ICCV)*, 2015.

INVITED TALKS

- Light-field Analysis for non-Lambertian Scenes, *Pixel Club*, Winter 2020, Haifa, Israel
- Light-fields: Beyond the Lambertian, *The 38th Pattern Recognition and Computer Vision Colloquium*, Spring 2016, Prague, Czech Republic
- Light-field Analysis for non-Lambertian Scenes, *The 11th IMPACT Seminar*, Winter 2017, Prague, Czech Republic
- Computer Vision for Biology, *Summer School in Quantitative Field Biology*, Summer 2017, Konstanz, Germany

TEACHING EXPERIENCE

Co-instructor, University of Konstanz

Image Analysis and Computer Vision I,
Image processing, Feature Detection, 3D reconstruction

Image Analysis and Computer Vision II,
Pattern Recognition, Graphical Models, Variational methods

¹Equal Contribution

Deep Learning in Computer Vision (Seminar),
Deep Learning, MatConvNet

Deep Learning in Computer Vision,
TensorFlow, CNNs, Auto-Encoders, GANs

KEY SKILLS Python, R, TensorFlow, CUDA, MATLAB, C, C++

LANGUAGES English (C1), German (B2), Czech (native)

REVIEWS ICCV'19, ACCV'18, GCPR'17, TPAMI