

## Antonin Sulc

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CONTACT INFORMATION	Friedrichstr. 12 Konstanz, 78464	+420 731 250 375 sulc.antonin@gmail.com
RESEARCH INTERESTS	computer vision, 3D reconstruction, pattern recognition, machine learning,	
EDUCATION	<b>University of Konstanz</b> , Konstanz, Germany Ph.D., Computer Vision, <ul style="list-style-type: none"><li>• Thesis Topic: <i>Lightfield Analysis for non-Lambertian Scenes</i></li><li>• Advisors: Prof. Dr. Bastian Goldlücke</li></ul> <b>Czech Technical University</b> , Prague, Czech Republic M.S., Artificial Intelligence, 2011 - 2014 <ul style="list-style-type: none"><li>• Topic: <i>On parametric model creation with Neural Modeling Fields</i>, nominated as CS Master Thesis of Year 2014 in Czech Republic</li><li>• Advisor: Dr. Michal Vavrecka</li></ul> B.S., Intelligent Systems, 2008 - 2011 <ul style="list-style-type: none"><li>• Topic: <i>Covariance Matrix Adaptation Evolution Strategy</i></li><li>• Advisor: Dr. Jan Drchal</li></ul>	
EXPERIENCE	<b>Vendavo</b> Software Engineer, Vendavo Inc., MAAS Team, Building a Recommendation System Supervisor: Dr. Ludek Kopacek, Eric Bergerson	Feb 2014 to Dec 2015
RESEARCH EXPERIENCE	<b>Research Assistant</b> Centre for Machine Perception, Department of Cybernetics, Czech Technical University in Prague Supervisor: Dr. Tomas Pajdla	Jun 2013 to Feb 2014
	<b>Research Assistant</b> Agent Technology Center, Department of Cybernetics, Czech Technical University in Prague Supervisor: Dr. Martin Rehak, Prof. Dr. Michal Pechoucek	Jun 2010 to Feb 2011
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none"><li>1. <b>A. Sulc</b>, O. Johannsen, B. Goldluecke. Inverse Lightfield Rendering for Shape, Reflection and Natural Illumination. In <i>Proc. 11th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR)</i>, 2017.</li><li>2. O. Johannsen, <b>A. Sulc</b>, N. Marniok, B. Goldluecke. Layered scene reconstruction from multiple light field camera views. In <i>Proc. Asian Conference on Computer Vision (ACCV)</i>, 2016.</li><li>3. <b>A. Sulc</b>, A. Alperovich, N. Marniok, B. Goldluecke. Reflection Separation in Light Fields based on Sparse Coding and Specular Flow. In <i>Proc. Vision, Modelling and Visualization (VMV)</i>, 2016.</li></ol>	

4. O. Johannsen, **A. Sulc**, B. Goldluecke. Occlusion-aware depth estimation using sparse light field coding. In *Proc. German Conference on Computer Vision (GCPR)*, 2016.
5. 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.
6. O. Johannsen, **A. Sulc**, B. Goldluecke. Variational Separation of Light Field Layers. In *Proc. Vision, Modelling and Visualization (VMV)*, 2015.
7. O. Johannsen, **A. Sulc**, B. Goldluecke. On Linear Structure from Motion for Light Field Cameras. In *Proc. International Conference on Computer Vision (ICCV)*, 2015.

- PRESENTATIONS
- 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

TEACHING Co-instructor, University of Konstanz

EXPERIENCE

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

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

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

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

- REFERENCES
- Prof. Dr. Bastian Goldluecke, [bastian.goldluecke@uni-konstanz.de](mailto:bastian.goldluecke@uni-konstanz.de)  
Professor, Computer Vision and Image Analysis  
University of Konstanz, Germany
- Dr. Ulrich Bodenhofer, [bodenhofer@bioinf.jku.at](mailto:bodenhofer@bioinf.jku.at)  
Associate Professor, Institute of Bioinformatics  
Johannes Kepler University Linz
- Dr. Christoph Kleineidam, [christoph.kleineidam@uni-konstanz.de](mailto:christoph.kleineidam@uni-konstanz.de)  
Researcher, Behavioral Neurobiology, Social Organization in Insects  
University of Konstanz
- Dr. Tomas Pajdla, [pajdla@cmp.felk.cvut.cz](mailto:pajdla@cmp.felk.cvut.cz)  
Assistant Professor, Centre for Machine Perception,  
Czech Technical University in Prague

SOFTWARE SKILLS MATLAB, Python, TensorFlow, CUDA, C, C++, MatConvNet, R

LANGUAGES Czech (native), English (C1) , German (B1)