

Simon Meister

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Research Interests

To develop machines that learn to solve complex problems as effectively as biological brains. My interests include reinforcement learning, deep learning, neuromorphic computing and spiking neural networks. I am particularly interested in learning algorithms for recurrent spiking and non-spiking neural networks.

Education

2014–2018 **B.Sc., Computer Science**, *Technische Universität Darmstadt*, Germany, 1.4.

Experience

Professional

2018–2020 **Founder & CEO**, *Vality GmbH*, Germany.

Led design of virtual and augmented reality hardware, computer vision algorithms and platform software. Also responsible for fundraising, partnerships and hiring.

Miscellaneous

2020–Now **Independent Researcher**, Germany.

Research on scalable and biologically plausible deep learning and reinforcement learning.

Publications

Peer-Reviewed Conference Papers

- [1] S. Meister, J. Hur, and S. Roth. [UnFlow: Unsupervised Learning of Optical Flow with a Bidirectional Census Loss](#). In *AAAI Conference on Artificial Intelligence (AAAI)*, New Orleans, Louisiana, Feb. 2018. **Oral presentation**. [Code](#).

Theses

Bachelor

2018 **Motion R-CNN: Instance-level 3D Motion Estimation with Region-based CNNs**, [Code](#).

Supervised by Professor [Stefan Roth](#) & M.Sc. [Junhwa Hur](#)

Projects

2018 **Deep Reinforcement Learning for StarCraft II**, [Code](#).

Supervised by M.Sc. [Filipe Veiga](#) & Professor [Jan Peters](#)

2017 **Monocular depth prediction with PyTorch**, [Code](#).

Supervised by M.Sc. [Jochen Gast](#)

Honors & Awards

- 2019 **Best Paper Award**, *Fraunhofer IGD*, €3000.
“Impact on Science” category, awarded for “UnFlow” paper.
- 2013 **Christian Ernst Neeff-Preis**, *Physikalischer Verein Frankfurt*, €1000.
Awarded for work on massively parallel physics simulation conducted during the
“Jugend forscht” youth science competition (national level).

Technical Experience

Advanced Python, C, C++, TensorFlow, PyTorch, Linux, Git, JavaScript
Intermediate \LaTeX , NumPy, CUDA, OpenGL, Matlab, Java, Clojure

Biographic Information

Citizenship German
Languages English (fluent), German (native)

Formative Courses

Technische Universität Darmstadt

Grading scheme: 1.0 (best) – 4.0 (pass)

Statistical Machine Learning (1.0), Computer Vision 1 (1.0), Project Lab Deep Learning for Computer Vision (1.0), Deep Learning for Natural Language Processing (1.7), Integrated Project Robot Learning (1.0)

Online

Machine Learning, *Andrew Ng*, Coursera, Stanford University.