Franz **Scherr**

PhD Candidate at Institute of Theoretical Computer Science, TU Graz

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www.franzscherr.com

Interests / Skills

Deep Learning, Reinforcement Learning, Neuroscience
- Expert level programming in TensorFlow, python
- Creative skills in scientific visualization

Publications

NeurIPS (workshop)
Eligibility Traces provide a data-inspired alternative to backpropagation through time
Bellec G*, Scherr F*, Hajek E, Salaj D, Subramoney A, Legenstein R, Maass W

NeurIPS (workshop)
Slow processes of neurons enable a biologically plausible approximation to policy gradient
Subramoney A*, Bellec G*, Scherr F*, Hajek E, Salaj D, Legenstein R, Maass W

BioArxiv (under review)
A solution to the learning dilemma for recurrent networks of spiking neurons
Bellec G*, Scherr F*, Subramoney A, Hajek E, Salaj D, Legenstein R, Maass W

Frontiers
Neuromorphic Hardware learns to learn
Bohnstingl T*, Scherr F*, Pehle C, Meier K, Maass W

arxiv
Biologically inspired alternatives to backpropagation through time for learning in recurrent neural nets
Bellec G*, Scherr F*, Hajek E, Salaj D, Legenstein R, Maas W

Education

PhD Candidate with Prof. Wolfgang Maass
at Institute of Theoretical Computer Science, TU Graz
- Biological models of recurrent neural networks, spiking neurons
- Neuromorphic hardware

Master of Science in
Information and Computer Engineering (with distinction, GPA 1.105), TU Graz
- Robotics and Computational Intelligence
- IT Security

Bachelor of Science in Physics (with distinction, GPA 1.156), TU Graz

Bachelor of Science in
Information and Computer Engineering (with distinction, GPA 1.275), TU Graz

Other Experience

Undergraduate Teaching Assistant in Computer Networks, TU Graz

Undergraduate Teaching Assistant in Computer Networks, TU Graz

Internship cryptography group at IAIK, TU Graz

Undergraduate Teaching Assistant in Real Analysis, TU Graz

Google Hashcode Challenge, Placed **111**/4852

Present
2019
2018
2017
2016
2015
2014