Franz **Scherr**

PhD Candidate
Institute of Theoretical Computer Science
Graz University of Technology

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Interests[1]

[Machine, Deep, Reinforcement, Unsupervised, Meta-] Learning
Exploration Strategies and Planning in Artificial Agents
Computational Neuroscience
Memory in Neural Networks

Skills

Broad and deep understanding of contemporary methods shown in [1]
Creative problem solving
Expert level knowledge of TensorFlow (1 and 2), Python
Creative skills in visualization

Publications

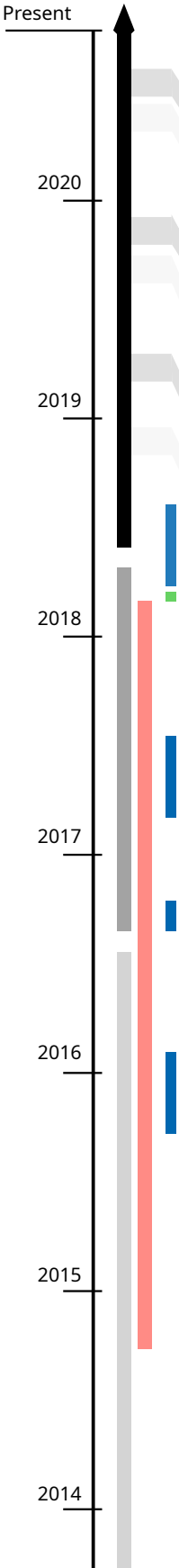
Nature Communications	**A solution to the learning dilemma for recurrent networks of spiking neurons** Bellec G*, Scherr F*, Subramoney A, Hajek E, Salaj D, Legenstein R, Maass W
bioRxiv	**One-shot learning with spiking neural networks** Scherr F, Stöckl C, Maass W
NeurIPS (workshop)	**Eligibility Traces 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
arXiv	**Reservoirs learn to learn** Subramoney A, Scherr F, Maas W
Frontiers in Neuroscience	**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, Maass W

Education

- PhD Candidate with Prof. Wolfgang Maass
  at Institute of Theoretical Computer Science, TU Graz
- Master of Science in
  Information and Computer Engineering (with distinction, GPA 3.9/4.0), TU Graz
- Bachelor of Science in Physics (with distinction, GPA 3.8/4.0), TU Graz
- Bachelor of Science in
  Information and Computer Engineering (with distinction, GPA 3.7/4.0), 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



last updated: October 2020