

Martin Trapp

Curriculum Vitae

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Professional Experience

2015
2017

Research Associate, *Austrian Research Institute for Artificial Intelligence*, Austria.

Member of the Applied Cognitive Science and Social Robotics Group

Associated Projects: FWF P-27530, FWF P-25380

Research Topics: Bayesian Nonparametrics, Machine Learning, Natural Language Processing

2009

2015

Research Associate, *VRVis Research Center*, Austria.

Member of the Biomedical Image Informatics Group

Research Topics: Image Processing, Machine Learning

Education

2015

PhD Computer Science, *Graz University of Technology*, Austria.

2009

2014

Dipl. Ing. Computational Intelligence, *Vienna University of Technology*, Austria.

2006

2009

BSc Computer Science, *University of Applied Science Technikum Vienna*, Austria.

Research Interests

- Machine Learning
- Bayesian Nonparametrics
- Tractable Probabilistic Models
- Multivariate Statistics
- Image Processing
- Natural Language Processing

Technical Skills

Programming Julia, R, Java, Python, C++

Tools Stan, Tensorflow, Git

Participation In Events

2017

11th Conference on Bayesian nonparametrics, Paris, France.
(forthcomming)

2016

30th Annual Conference on Neural Information Processing Systems (NIPS), Barcelona, Spain.

2015

29th Annual Conference on Neural Information Processing Systems (NIPS), Montreal, Canada.

2015

iV&L Net Summer School on Vision and Language, Leuven, Belgium.

2014

Visual Computing for Biology and Medicine, Vienna, Austria.

2013

Neurobiology of Drosophila Meeting at Cold Spring Harbor Laboratory, New York, USA.

2013

Visual Computing in Medicine Sub Committee Meeting, Heidelberg, Germany.

2012

Eurographics, Cagliari, Italy.

2009

RoboCup Workshop, Wels, Austria.

Invited Talks

2016

Invited Panelist, *Practical Bayesian nonparametrics workshop of the 30th Annual Conference on Neural Information Processing Systems (NIPS)*, Barcelona, Spain.

2013

3D Object Retrieval in an Atlas of Neuronal Structures, *Visual Computing in Medicine Sub Committee Meeting*, Heidelberg, Germany.

Publications

- [2] M. Trapp, R. Peharz, T. Madl, F. Pernkopf, and R. Trappl, "Infinite sum-product networks," in *Conference on Bayesian nonparametrics*, 2017.
- [4] M. Skowron, M. Trapp, S. Payr, and R. Trappl, "Automatic identification of character types from film dialogs," *Applied Artificial Intelligence*, vol. 30, no. 10, pp. 942–973, 2016.
- [5] M. Trapp, R. Peharz, M. Skowron, T. Madl, F. Pernkopf, and R. Trappl, "Structure inference in sum-product networks using infinite sum-product trees," in *Practical Bayesian Nonparametrics Workshop*, 2016.
- [6] M. Trapp, F. Schulze, A. A. Novikov, L. Tirian, B. J. Dickson, and K. Bühler, "Adaptive and background-aware gal4 expression enhancement of co-registered confocal microscopy images," *Neuroinformatics*, vol. 14, no. 2, pp. 221–233, 2016.
- [7] M. Trapp, "Bnp.jl: Bayesian nonparametrics in julia.," in *Bayesian Nonparametrics: The Next Generation Workshop*, 2015.
- [8] M. Trapp, E. Langer, F. Schulze, K. Bühler, and B. J. Dickson, "Brainimage - retrieval of globally and locally similar confocal images of the drosophila central nervous system," in *Neurobiology of Drosophila*, 2013.
- [9] M. Trapp, F. Schulze, K. Bühler, T. Liu, and B. J. Dickson, "3d object retrieval in an atlas of neuronal structures," *The Visual Computer*, vol. 29, no. 12, pp. 1363–1373, 2013.
- [10] M. Trapp, F. Schulze, K. Bühler, T. Liu, and B. J. Dickson, "Brainneuron - retrieval of globally and locally similar segmented neuronal representations in drosophila," in *Neurobiology of Drosophila*, 2013.
- [11] F. Schulze, M. Trapp, K. Bühler, T. Liu, and B. J. Dickson, "Similarity based object retrieval of composite neuronal structures.," in *Proceedings of the 3D Object Retrieval Workshop at Eurographics*, 2012, pp. 1–8.

References

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