

Christina Göpfert

Curriculum Vitae

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Research Interests

Statistical Learning Theory, Semi-Supervised Learning, Feature Selection, Interpretability.

Education

- since 2015 **PhD studies**, *Machine Learning group*, Cognitive Interaction Technology Cluster of Excellence (CITEC), Bielefeld, Germany.
Supervised by Prof. Dr. Barbara Hammer
- 2013-2015 **MSc in Mathematics**, *Universität Bielefeld*, Bielefeld, Germany, grade 1.0 (A+/excellent).
Thesis: Topological Entropy and its Numerical Approximation
- 2010-2013 **BSc in Mathematics and Computer Science**, *Universität Bielefeld*, Bielefeld, Germany, grade 1.1 (A/excellent).
Thesis: Knotentheorie und das Jones-Polynom
- 2009 **Abitur**, *Gymnasium Schloß Neuhaus*, Paderborn, Germany, grade 1.3 (A-/excellent).

Experience

- 2020 **Research Internship**, *Google Research*, Worked on interactive recommender systems.
3 months
- 2018 **Research Internship**, *Google Brain*, Zurich, Switzerland, Worked on theoretical understanding of semi-supervised learning, resulting in a publication at COLT.
4 months
- 2017 **Research stay**, Shai Ben-David, University of Waterloo, 5 weeks.
- 2017 **Teaching exchange**, University of Groningen, 2 weeks.
- since 2015 **Research Assistant**, *Machine Learning group*, Cognitive Interaction Technology Cluster of Excellence (CITEC), Bielefeld, Germany.
- 2011-2015 **Tutor for Machine Learning in the Web, Modern Data Analysis, Theoretical Computer Science, Algorithms of Computer Science, Linear Algebra & Probability Theory and Statistics**, Bielefeld University, Germany.
- 2013-2014 **Academic supervision of exchange students from ECNU, Shanghai, China**, Bielefeld University, Germany.
- 2013 **Software Engineering Internship**, *SAP Labs, HANA Machine Learning Research division*, Shanghai, China, Worked on missing value imputation.
3 months

Languages

Mothertongue	German	Intermediate	Chinese
Advanced	English	Intermediate	French
Advanced	Portuguese	Elementary	Spanish

Publications

- 2020 **Adversarial examples and where to find them**, N. Risse, **C. Göpfert**, JP Göpfert.
arXiv
- 2019 **When can unlabeled data improve the learning rate?**, **C. Göpfert**, S. Ben-David, O. Bousquet, S. Gelly, I. Tolstikhin, R. Uner.
Conference on Learning Theory (COLT)
- Differential privacy for learning vector quantization**, J. Brinkrolf, **C. Göpfert**, B. Hammer.
Neurocomputing
- 2018 **Statistical Mechanics of On-Line Learning Under Concept Drift**, F. Abadi, **C. Göpfert**, B. Hammer, M. Biehl.
Entropy
- Time Series Prediction for Graphs in Kernel and Dissimilarity Spaces**, B. Paaßen, **C. Göpfert**, B. Hammer.
Neural Processing Letters
- Interpretation of Linear Classifiers by Means of Feature Relevance Bounds**, **C. Göpfert**, L. Pfannschmidt, JP Göpfert, B. Hammer.
Neurocomputing
- 2017 **Analyzing Feature Relevance for Linear Reject Option SVM using Relevance Intervals**, **C. Göpfert**, JP Göpfert, B. Hammer.
NIPS workshop on Transparent and Interpretable Machine Learning in Safety Critical Environments, Long Beach
- Effects of Variability in Synthetic Training Data on Convolutional Neural Networks for 3D Head Reconstruction**, JP Göpfert, **C. Göpfert**, M. Botsch, B. Hammer.
IEEE Symposium Series on Computational Intelligence (SSCI), Honolulu
- Feature Relevance Bounds for Linear Classification**, **C. Göpfert**, L. Pfannschmidt, B. Hammer.
European Symposium on Artificial Neural Networks (ESANN), Bruges
- Convergence of Multi-pass Large Margin Nearest Neighbor Metric Learning**, **C. Göpfert**, B. Paaßen, B. Hammer.
International Conference on Artificial Neural Networks (ICANN), Barcelona
- Gaussian process prediction for time series of structured data**, B. Paaßen, **C. Göpfert**, B. Hammer.
European Symposium on Artificial Neural Networks (ESANN), Bruges

Publications can be accessed at pub.uni-bielefeld.de/person/70126969.