

# Christina Göpfert

## Curriculum Vitae

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### Research Interests

Robustness, Semi-Supervised Learning, Interpretability, Statistical Learning Theory.

### Education

- since 2015 **PhD studies**, *Machine Learning*, 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.  
Thesis: Topological Entropy and its Numerical Approximation
- 2010-2013 **BSc in Mathematics and Computer Science**, *Universität Bielefeld*, Bielefeld, Germany, grade 1.1.  
Thesis: Knotentheorie und das Jones-Polynom
- 2009 **Abitur**, *Gymnasium Schloß Neuhaus*, Paderborn, Germany, grade 1.3.

### Experience

- 2021 **Research Internship**, *Deepmind*, virtual with London, UK, Worked on theoretical understanding of NN optimization.  
4 months
- 2020 **Research Internship**, *Google Research*, virtual with Mountain View, USA, Worked on continuous learning and personalization for interactive recommender systems, published at The Web Conference.  
3 months
- 2018 **Research Internship**, *Google Brain*, Zurich, Switzerland, Worked on theoretical understanding of semi-supervised learning, published at COLT.  
4 months
- 2017 **Research stay**, Shai Ben-David, University of Waterloo, 5 weeks.  
**Machine Learning Summer School**, MPI Tübingen, 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 and Probability Theory & Statistics**, Bielefeld University, Germany.

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## Languages

<b>German</b>	Advanced	<b>Chinese</b>	Intermediate
<b>English</b>	Advanced	<b>French</b>	Intermediate
<b>Portuguese</b>	Advanced	<b>Spanish</b>	Elementary

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## Tools

Languages	Python, Matlab
Frameworks	scikit-learn, Tensorflow, Haiku
Tools	Ubuntu, git, Pycharm

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## Selected Publications

- 2022 **Discovering Personalized Semantics for Soft Attributes in Recommender Systems using Concept Activation Vectors**, C. Göpfert, Y. Chow, C. Hsu, I. Vendrov, T. Lu, D. Ramachandran, C. Boutilier.  
The Web Conference
- 2021 **How to compare adversarial robustness of classifiers from a global perspective**, N. Risse, C. Göpfert, JP Göpfert.  
International Conference on Artificial Neural Networks (ICANN)
- 2019 **When can unlabeled data improve the learning rate?**, C. Göpfert, S. Ben-David, O. Bousquet, S. Gelly, I. Tolstikhin, R. Urner.  
Conference on Learning Theory (COLT)
- 2018 **Interpretation of Linear Classifiers by Means of Feature Relevance Bounds**, C. Göpfert, L. Pfannschmidt, JP Göpfert, B. Hammer.  
Neurocomputing

A full publication list is available at [scholar.google.com/citations?user=S6jFnW8AAAAAJ](https://scholar.google.com/citations?user=S6jFnW8AAAAAJ).