Christopher Morris

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Email: christopher.morris@udo.edu **Website:** www.christophermorris.info

Nationality: German/British

Areas of Specialization

Machine Learning with Graphs (Graph Kernels, Graph Embedding, and Representation Learning), Graph Algorithms, Algorithm Engineering

Current Position

2015-present PhD Student/Research Associate, TU Dortmund University, Dortmund

Education

1997-2007	University Entrance Qualification, Erzbischofliches StAngela-Gymnasium, Wipperfurth
2008-2012	B. Sc. in Computer Science, TU Dortmund University
2012-2015	M. Sc. in Computer Science, TU Dortmund University, Final Grade: 1.0 (best possible grade)

Publications

Conference Papers

2018 Nils M. Kriege, Christopher Morris, Anja Rey, Christian Sohler, A Property Testing Framework for the Theoretical Expressivity of Graph Kernels, International Joint Conference on Artificial Intelligence (IJCAI) 2018

2017 Christopher Morris, Kristian Kersting, Petra Mutzel,

Glocalized Weisfeiler-Lehman Graph Kernels: Global-Local Feature Maps of Graphs,

IEEE International Conference on Data Mining (ICDM) 2017, Full paper

Christopher Morris, Nils M. Kriege,

Recent Advances in Kernel-Based Graph Classification,

European Conference on Machine Learning & Principles and Practice of Knowledge Discovery in Databases (ECML PKDD) 2017

2016 Christopher Morris, Nils M. Kriege, Kristian Kersting, Petra Mutzel,

Faster Kernels for Graphs with Continuous Attributes via Hashing, IEEE International Conference on Data Mining (ICDM) 2016

Journal Articles

2017 Fritz Bökler, Mathias Ehrgott, Christopher Morris, Petra Mutzel,

Output-sensitive Complexity of Multiobjective Combinatorial Optimization,

Journal of Multicriteria Decision Analysis, 2017

2017 Nils M. Kriege, Marion Neumann, Christopher Morris, Kristian Kersting, Petra Mutzel,

A Unifying View of Explicit and Implicit Feature Maps for Structured Data: Systematic

Studies of Graph Kernels,

In submission

Teaching

WS 2017/18 Seminar Algorithm Engineering

SS 2017 Seminar Algorithm Engineering

WS 2016/17 Student project group Algorithm Engineering for Graph Data Mining

Seminar Algorithms Unplugged

SS 2016 Seminar Algorithm Engineering

Seminar Graph Mining

WS 2015/16 Seminar Algorithm Engineering

As a student Programming tutorials for engineering students,

Teaching assistant for a course on theoretical computer science

Service to the Profession

2017 Reviewer for WALCOM 2017

Subreviewer for ESA 2018

Member of the appeal commission for the professorship "Data Mining"

Computational Skills

Python, C++, LATEX, Scikit-learn, NumPy, TensorFlow, PyTorch

Referees

Prof. Petra Mutzel Chair of Algorithm Engineering, Department of Computer Science, TU Dortmund University petra.mutzel@udo.edu

Prof. Kristian Kersting
Machine Learning Group,
Department of Computer Science,
TU Darmstadt
kersting@cs.tu-darmstadt.de

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