Christopher Morris

Address: TU Dortmund University,
Computer Science Department,
Otto-Hahn-Straße 14,
Dortmund, 44227
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, Erzbischöfliches St.-Angela-Gymnasium, Wipperfürth
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 Rex Ying, Jiaxuan You, Christopher Morris, Xiang Ren, William L. Hamilton, Jure Leskovec
Hierarchical Graph Representation Learning with Differentiable Pooling,
Neural Information Processing Systems (NIPS) 2018, spotlight presentation, and KDD Deep Learning Day 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

Reviewer for ISAAC 2018, ESA 2018, WALCOM 2017
Member of the appeal commission for the professorship "Data Mining" (2017)

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

Last updated: September 10, 2018