

Christopher Morris

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Computer Science Department,
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Nationality: German/British

Areas of Specialization

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

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

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
Member of the appeal commission for the professorship “Data Mining”

Computational Skills

Python, C++, \LaTeX , Scikit-learn, TensorFlow

Referees

Prof. Petra Mutzel
Chair of Algorithm Engineering,
Department of Computer Science,

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

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