

Address

Christopher Morris
Theaterstraße 35-39
Office 215
52062 Aachen, Germany
E-mail: morris@cs.rwth-aachen.de
Homepage: <http://www.christophermorris.info>

Areas of Specialization

Machine learning for graphs (graph neural networks, graph transformers, equivariant neural networks, graph kernels) from a theoretical as well as applied viewpoint, and its application in combinatorial optimization and the life sciences.

Education

06/2015–12/2019	PhD in Computer Science, TU Dortmund University, Germany, final grade: 1.0 with highest distinction (best possible grade)
01/2018–04/2018	Research stay at Stanford, Infolab (Jure Leskovec)
04/2012–05/2015	MSc in Computer Science, TU Dortmund University, Germany, final grade: 1.0 (best possible grade)
10/2008–12/2011	BSc in Computer Science, TU Dortmund University, Germany
08/1998–06/2007	University Entrance Qualification, Erzbischöfliches St.-Angela-Gymnasium, Wipperfürth

Employment

06/2022–present	Tenure-track assistant professor (“junior professorship” (W1 → W2)) at RWTH Aachen, Department of Computer Science
06/2021–06/2022	Postdoctoral researcher at McGill University, Department of Computer Science, in the group of Siamak Ravanbakhsh (DAAD IFI scholarship) and member of the Mila – Quebec AI Institute, Montréal
03/2020–05/2021	Postdoctoral researcher in the group of Andrea Lodi, Department of Mathematical and Industrial Engineering, Polytechnique Montréal
06/2015–12/2019	PhD student and research associate, TU Dortmund University, Department of Computer Science, within the DFG Collaborative Research Center SFB 876, advised by Petra Mutzel (now University of Bonn) and Kristian Kersting (Technical University of Darmstadt)
08/2007–04/2008	Mandatory civil service (German Red Cross)

Publications

Conference Papers

- [1] Christopher Morris, Floris Geerts, Jan Tönshoff, Martin Grohe. *WL meet VC*, International Conference on Machine Learning (ICML), PMLR 162:16017–16042, 2023.
- [2] Pablo Barcelo, Mikhail Galkin, Christopher Morris, Miguel Romero Orth.[†] *Weisfeiler and Leman Go Relational*, Learning on Graphs Conference (LoG), PMLR 198:46:1–46:26, 2022.
- [3] Chendi Qian, Gaurav Rattan, Floris Geerts, Christopher Morris, Mathias Niepert. *Ordered Subgraph Aggregation Networks*, Neural Information Processing Systems (NeurIPS), 2022.
- [4] Christopher Morris, Gaurav Rattan, Sandra Kiefer, Siamak Ravanbakhsh. *SpeqNets: Sparsity-aware permutation-equivariant graph networks*, International Conference on Machine Learning (ICML), PMLR 162:16017–16042, 2022, spotlight presentation.

- [5] Elias B. Khalil*, Christopher Morris*, Andrea Lodi. *MIP-GNN: A data-driven framework for guiding combinatorial solvers*, AAAI Conference on Artificial Intelligence (AAAI), pages 10219–10227, 2022, oral presentation.
- [6] Leonardo Cotta, Christopher Morris, Bruno Ribeiro. *Reconstruction for Powerful Graph Representations*, Neural Information Processing Systems (NeurIPS), pages 1713–1726, 2021.
- [7] Quentin Cappart, Didier Chételat, Elias Khalil, Andrea Lodi, Christopher Morris, Petar Veličković.[†] *Combinatorial Optimization and Reasoning with Graph Neural Networks*, International Joint Conference on Artificial Intelligence (IJCAI), pages 4348–4355, 2021.
- [8] Christopher Morris, Matthias Fey, Nils M. Kriege. *The Power of the Weisfeiler-Leman Algorithm for Machine Learning with Graphs*, International Joint Conference on Artificial Intelligence (IJCAI), pages 4543–4550, 2021.
- [9] Christopher Morris, Gaurav Rattan, Petra Mutzel. *Weisfeiler and Leman Go Sparse: Towards Scalable Higher-order Graph Neural Networks*, Neural Information Processing Systems (NeurIPS), pages 21824–21840, 2020.
- [10] Matthias Fey, Jan E. Lenssen, Christopher Morris, Jonathan Masci, Nils M. Kriege. *Deep Graph Matching Consensus*, International Conference on Learning Representations (ICLR), 2020.
- [11] Lutz Oettershagen, Nils Kriege, Christopher Morris, Petra Mutzel. *Temporal Graph Kernels for Classifying Dissemination Processes*, SIAM International Conference on Data Mining (SDM), pages 496–504, 2020.
- [12] Christopher Morris, Martin Ritzert, Matthias Fey, William L. Hamilton, Jan Eric Lenssen, Gaurav Rattan, Martin Grohe. *Weisfeiler and Leman Go Neural: Higher-order Graph Neural Networks*, AAAI Conference on Artificial Intelligence (AAAI), pages 4602–4609, 2019.
- [13] Rex Ying, Jiaxuan You, Christopher Morris, Xiang Ren, William L. Hamilton, Jure Leskovec. *Hierarchical Graph Representation Learning with Differentiable Pooling*, Neural Information Processing Systems (NeurIPS), pages 4805–4815, 2018, spotlight presentation.
- [14] 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), pages 2348–2354, 2018.
- [15] Christopher Morris, Kristian Kersting, Petra Mutzel. *Glocalized Weisfeiler-Lehman Graph Kernels: Global-Local Feature Maps of Graphs*, IEEE International Conference on Data Mining (ICDM), pages 327–336, 2017, full paper.
- [16] 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), pages 388–392, 2017.
- [17] 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), pages 1095–1100, 2016.

Journal Articles

- [18] Christopher Morris, Yaron Lipman, Haggai Maron, Bastian Rieck, Nils M. Kriege, Martin Grohe, Matthias Fey, Karsten Borgwardt. *Weisfeiler and Leman go Machine Learning: The Story so far*, Journal of Machine Learning Research (JMLR), 2023.
- [19] Quentin Cappart, Didier Chételat, Elias Khalil, Andrea Lodi, Christopher Morris, Petar Veličković.[†] *Combinatorial Optimization and Reasoning with Graph Neural Networks*, Journal of Machine Learning Research (JMLR), 2023, largely extend version of [6].
- [20] Lutz Oettershagen, Nils M. Kriege, Christopher Morris, and Petra Mutzel. *Classifying Dissemination Processes in Temporal Graphs*, Big Data 8 (5), pages 363–378, 2020.
- [21] Nils M. Kriege, Fredrik D. Johansson, Christopher Morris.[†] *A Survey on Graph Kernels*, Applied Network Science 5 (1), pages 1–42, 2020.

*Equal contribution.

[†]Alphabetical author order.

- [22] 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*, Data Mining and Knowledge Discovery 33 (6), pages 1505-1547, 2019.
- [23] Fritz Böckler, Mathias Ehrgott, Christopher Morris, Petra Mutzel.* *Output-sensitive Complexity of Multiobjective Combinatorial Optimization*, Journal of Multicriteria Decision Analysis 24 (1-2), pages 25-36, 2017.

Book Chapters

- [24] Nils Kriege, Christopher Morris. *The Weisfeiler-Leman Method for Machine Learning with Graphs*, in *Structured Data*, in *Volume 1 Fundamentals*, edited by Katharina Morik, Peter Marwedel, pages 179-193, in *Machine Learning under Resource Constraints*, edited by Nico Piatkowski, Katharina Morik, Nils Kriege, Christopher Morris, Matthias Fey, Frank Weichert, Nico Bertram, Jonas Ellert, Johannes Fischer, Lukas Pfahler, De Gruyter, 2023.
- [25] Christopher Morris. *Graph Neural Networks: Graph Classification*, in *Graph Neural Networks: Foundations, Frontiers, and Applications*, edited by Peng Cui, Jian Pei, Lingfei Wu, Liang Zhao, pages 179-193, Springer, 2021. Book was also translated into Chinese.
- [26] Christopher Morris. *Lernen mit Graphen: Kern- und neuronale Methoden*, in *Ausgezeichnete Informatikdissertationen 2019*, edited by Steffen Hölldobler, Sven Apel, Felix Freiling, Hans-Peter Lehnhof, Gustaf Neumann, Rüdiger Reischuk, Kai U. Römer, Björn Scheuermann, Nicole Schweikardt, Myra Spiliopoulou, Sabine Süsstrunk, Klaus Wehrle, LNI, D-19, Gesellschaft für Informatik (GI), 2020.

Workshop Papers (Peer-reviewed)

- [27] Christopher Morris, Gaurav Rattan, Sandra Kiefer, Siamak Ravanbakhsh. *SpeqNets: Sparsity-aware permutation-equivariant graph networks*, Geometrical and Topological Representation Learning (GT-RL, ICLR 2022), also accepted at ICML 2022.
- [28] Christopher Morris, Gaurav Rattan, Petra Mutzel. *Weisfeiler and Leman go sparse: Towards scalable higher-order graph embeddings*, Graph Representation Learning and Beyond (GRL+, ICML 2020), also accepted at NeurIPS 2020.
- [29] Christopher Morris, Nils M. Kriege, Franka Bause, Kristian Kersting, Petra Mutzel, Marion Neumann. *TUDataset: A collection of benchmark datasets for learning with graphs*, Graph Representation Learning and Beyond (GRL+, ICML 2020).
- [30] Rex Ying, Jiaxuan You, Christopher Morris, Xiang Ren, William L. Hamilton, Jure Leskovec. *Hierarchical Graph Representation Learning with Differentiable Pooling*, KDD Deep Learning Day 2018, also accepted at NeurIPS 2018.

Thesis

- [31] Christopher Morris. *Learning with Graphs: Kernel and Neural Approaches*, PhD thesis, TU Dortmund University, 2019.
- [32] Christopher Morris. *Enumeration Complexity of Multicriteria Linear Optimization*, MSc thesis, TU Dortmund University, 2015.

Edited Workshop and Competition Proceedings

- [33] Martin Grohe, Stephan Günnemann, Stefanie Jegelka, Christopher Morris.[†] *Graph Embeddings: Theory meets Practice (Dagstuhl Seminar 22132)*, Dagstuhl Reports 12 (3), 2022.

- [34] Maxime Gasse, Quentin Cappart, Jonas Charfreitag, Laurent Charlin, Didier Chételat, Antonia Chmiela, Justin Dumouchelle, Ambros Gleixner, Aleksandr M. Kazachkov, Elias Khalil, Pawel Lichocki, Andrea Lodi, Miles Lubin, Chris J. Maddison, Christopher Morris, Dimitri J. Papageorgiou, Augustin Parjadis, Sebastian Pokutta, Antoine Prouvost, Lara Scavuzzo, Giulia Zarpellon, Linxin Yang, Sha Lai, Akang Wang, Xiaodong Luo, Xiang Zhou, Haohan Huang, Shengcheng Shao, Yuanming Zhu, Dong Zhang, Tao Quan, Zixuan Cao, Yang Xu, Zhewei Huang, Shuchang Zhou, Chen Binbin, He Minggui, Hao Hao, Zhang Zhiyu, An Zhiwu, Mao Kun. *The Machine Learning for Combinatorial Optimization Competition (ML4CO): Results and Insights*, NeurIPS 2021 Competitions and Demonstrations Track, PMLR 176:220-231, 2022.

Submitted Papers

- [35] Luis Müller, Mikhail Galkin, Christopher Morris, Ladislav Rampásek. *Attending to Graph Transformers*, (Preprint: arxiv:abs/2302.04181), 2023.

Academic Honors

2022	DFG Emmy Noether fellow
2020	Dissertation award of TU Dortmund University (awarded for best Computer Science PhD thesis in 2020)
2020	Nominated (by TU Dortmund University) for the dissertation award of the German computer science association (GI Dissertationspreis)

Invited Talks

12/2023	Dagstuhl workshop “Scalable Graph Mining and Learning (23491),” Dagstuhl, <i>Weisfeiler and Leman go Machine Learning: Expressivity and Generalization Abilities of GNNs</i>
10/2023	ILCC/CDT NLP Seminar Series, School of Informatics, University of Edinburgh, <i>Weisfeiler and Leman go Machine Learning: Expressivity and Generalization Abilities of GNNs</i>
06/2023	Satellite Conference “Deep Learning with Higher-Order Network Model” at the International School and Conference on Network Science (NetSci) 2023, Vienna, <i>Weisfeiler and Leman go Machine Learning: Expressivity and Generalization Abilities of GNNs</i>
04/2023	GIBU Jahrestreffen, Dagstuhl, <i>Machine Learning with Graphs: From Theory to Applications</i>
03/2023	Geometric Deep Learning Reading Group at Mila, Mila – Quebec AI Institute (virtual), <i>Weisfeiler and Leman go Machine Learning: Expressivity and Generalization Abilities of GNNs</i>
12/2022	Institute for Artificial Intelligence, Peking University (PKU), and the AI Pharma Seminar at the Institute of Natural Science (INS), Shanghai Jiao Tong University (SJTU) (virtual), <i>Towards Understanding Expressivity and Generalization of Graph Networks</i>
11/2022	ELLIIT Hybrid AI Workshop, Linköping University, <i>Graph Neural Networks for Data-driven Optimization</i>
09/2022	Mini-symposium on “Advances in Learning for Graphs, Manifolds, and Geometric Data - Part I of II” at the SIAM Conference on Mathematics of Data Science (MDS22) (virtual), San Diego, <i>Learning with Graphs: Graph Neural Networks and the Weisfeiler-Leman algorithm</i>
07/2022	Banff International Research Station for Mathematical Innovation and Discovery (BIRS) workshop “Deep Exploration of non-Euclidean Data with Geometric and Topological Representation Learning”, <i>Towards Understanding the Expressive Power of Graph Networks</i>
02/2022	University of Windsor (virtual), <i>Learning with Graphs: From Theory to Applications</i>

01/2022	RWTH Aachen University (virtual), <i>Learning with Graphs: From Theory to Applications</i>
12/2021	RWTH Aachen University (virtual), <i>Learning with Graphs: From Theory to Applications</i>
10/2021	University of Oxford (virtual), <i>Learning with Graphs: Graph Neural Networks and the Weisfeiler-Leman algorithm</i>
07/2021	Saarland University (virtual), <i>Machine Learning with Graphs: From Theory to Applications in Science and Engineering</i>
07/2021	University of Hannover (virtual), <i>Machine Learning with Graphs: From Theory to Applications in Science and Engineering</i>
11/2020	McGill University (virtual), <i>Limits of Graph Neural Networks and the Weisfeiler-Leman algorithm</i>
11/2020	INFORMS Annual Meeting (virtual), <i>Limits Of Graphs Neural Networks For Combinatorial Optimization</i>
10/2019	IBM Research, Zürich, <i>Graph Classification: Kernel and Neural Approaches</i>
05/2019	NEC Research, Heidelberg, <i>Graph Classification: Kernel and Neural Approaches</i>
03/2018	Stanford University, SNAP, Infolab, <i>Learning Higher-order Graph Embeddings: Theory and Practice</i>
07/2017	RWTH Aachen University, Chair of Logic and the Theory of Discrete Systems, <i>Graph Classification: Kernels and Beyond</i>

Supervised PhD students

02/2023– present	Quendi Qian
10/2022– present	Luis Müller

PhD examination board memberships

03/2023	Leslie O’Bray, ETH Zürich
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Supervised Bachelor and Master students

2023	Eric T. Bill, <i>A Theoretical and Empirical Investigation into the Equivalence of Graph Neural Networks and the Weisfeiler-Leman Algorithm</i> , Bachelor thesis, RWTH Aachen University
2023	Nuray Agaoglu, <i>Combining Semi- and Self- Supervised Learning in Image Classification</i> , Bachelor thesis, co-supervision with Abigail Morrison, RWTH Aachen University
2023	Chetan Prakash, <i>Distributed Active Voltage Control with GNN-based MARL Policy</i> , Master thesis, RWTH Aachen University
2023	Timothy Borrell, <i>TBD</i> , Master thesis, RWTH Aachen University
2023	Tobias J. Amelingmeyer, <i>Insights into Automated Algorithm Selection Models using Explainable Artificial Intelligence</i> , Bachelor thesis, co-supervision with Holger Hoos, RWTH Aachen University
2023	Michael Schulten, <i>Personalized Federated Hetero-Task Learning on Graph Data</i> , Master thesis, co-supervision with Stefan Decker, RWTH Aachen University
2023	Antonios Vasileiou, <i>The Expressive Power of Set-based Higher-order Graph Neural Networks</i> , Master thesis, TU Delft
2023	Antoine Origer, <i>Improving the generalization performance of the Weisfeiler-Lehman subtree kernel</i> , Bachelor thesis, RWTH Aachen University

2019	Nina K. Runde, <i>Evaluation von Varianten des k-dimensionalen Weisfeiler-Leman Algorithmus</i> , Bachelor thesis, TU Dortmund University
2019	Jannis D. Junge, <i>Algorithm Engineering zur Approximation des Spektrums von Graphen in der Praxis</i> , Master thesis, TU Dortmund University
2019	Frederik Stehli, <i>Approximation des Optimal Assignment Kernels durch explizite Merkmalsvektoren</i> , Bachelor thesis, TU Dortmund University
2017	Franka Bause, <i>Approximation der Editierdistanz für Graphen in linearer Zeit</i> , Bachelor thesis, TU Dortmund University
2016	Marcel Walker, <i>Systematisierung von neuronalen Netzen auf Graphen</i> , Master thesis, TU Dortmund University
2016	Christopher Osthues, <i>Experimenteller Vergleich von Labeling-Verfahren für Graphkerne</i> , Bachelor thesis, TU Dortmund University
2016	Serdar Ayaz, <i>Approximation des Weisfeiler-Lehman-Isomorphie-Tests durch Sampling</i> , Bachelor thesis, TU Dortmund University
2016	Marcel Walker, <i>Dimensionsreduktion von expliziten Graphkernen durch Hashing</i> , Bachelor thesis, TU Dortmund University

Teaching

SS 2023	Master course & exercise <i>Foundations and Applications of Machine Learning with Graphs</i> Bachelor proseminar <i>Maschinelles Lernen mit Graphen</i>
WS 2022	Master seminar <i>Foundations of Supervised Machine Learning with Graphs</i> Master seminar <i>Machine Learning for Combinatorial Optimization</i>
03/2022	Lecture <i>Introduction to Graph Neural Networks: Machine Learning with Graphs</i> in the <i>Dataninja Spring School</i> organized by the University of Bielefeld
11/2021	Guest lecture <i>Introduction to Graph Neural Networks</i> in the <i>Applied Machine Learning</i> class, McGill University
SS 2019	Proseminar <i>Graph Algorithms</i> (supervised students and helped with organization)
SS 2018	Seminar <i>Algorithm Engineering</i> (supervised students and helped with organization)
SS 2017	Seminar <i>Algorithm Engineering</i> (supervised students and helped with organization)
WS 2016/17	Student project group <i>Algorithm Engineering for Graph Data Mining</i> (co-organizer), Seminar <i>Algorithms Unplugged</i> (supervised students and helped with organization)
SS 2016	Seminar <i>Algorithm Engineering</i> , Seminar <i>Graph Mining</i> (supervised students and helped with organization)
WS 2016/17	Student project group <i>Algorithm Engineering for Graph Data Mining</i> (co-organizer), Seminar <i>Algorithms Unplugged</i> (supervised students and helped with organization)
SS 2016	Seminar <i>Algorithm Engineering</i> , Seminar <i>Graph Mining</i> (supervised students and helped with organization)
As a student	Programming tutorials for engineering students, teaching assistant for a course on theoretical computer science

Service to the Profession

Panellist at the *Workshop on Geometrical and Topological Representation Learning* (ICLR 2022 workshop)
Co-organizer of the graph machine learning reading group at Mila – Quebec AI Institute ([grlmla.github.io](https://github.com/ml4a))
Co-organizer of the NeurIPS 2021 competition *Machine Learning for Combinatorial Optimization* (www.ecole.ai/2021/ml4co-competition)

Co-organizer of the Dagstuhl seminar *Graph Embeddings: Theory Meets Practice* (March 27–30 2022, Dagstuhl Seminar 22132, together with Martin Grohe (RWTH Aachen University), Stephan Günnemann (TU Munich), Stefanie Jegelka (MIT))

Initiator of www.graphlearning.io, a large collection of benchmark datasets for graph classification and regression

Area chair for LoG Conference 2022 (Learning on Graphs Conference), Senior program committee member for AAAI 2023

Program committee member for IJCAI 2019, NeurIPS 2019, AAAI 2020, ICML 2020, IJCAI 2020, ECML-PKDD 2020, NeurIPS 2020, ICLR 2021, AAAI 2021, ICML 2021, IJCAI 2021, NeurIPS 2021, ICLR 2022, ICML 2022, NeurIPS 2022 Competition Track, NeurIPS 2022, ICLR 2023, ICML 2023, NeurIPS 2023, NeurIPS 2023 Competition Track

Program committee member for *Representation Learning on Graphs and Manifolds* (ICLR 2019 workshop), *Learning and Reasoning with Graph-Structured Data* (ICML 2019 workshop), *Graph Representation Learning* (NeurIPS 2019 workshop), *Graph Representation Learning and Beyond* (ICML 2020 workshop), *Graphs and more Complex Structures for Learning and Reasoning* (AAAI 2021 workshop), *Workshop on Graph Learning Benchmarks* (The Web Conference 2021 workshop), *Graphs and more Complex Structures for Learning and Reasoning* (AAAI 2022 workshop), GroundedML: Workshop on Anchoring Machine Learning in Classical Algorithmic Theory (ICLR 2022 workshop), *Workshop on Graph Learning Benchmarks* (The Web Conference 2022 workshop), *Mining and Learning with Graphs* (ECML 2022 workshop), GLFrontiers Workshop (NeurIPS 2022 workshop)

(Sub-)Reviewer for WALCOM 2017, ISAAC 2018, ALENEX 2019, ESA 2018, ICALP 2020

Occasional reviews for Transactions on Machine Learning Research (2×2022 , 2023), IEEE Transactions on Pattern Analysis and Machine Intelligence (2×2020), Journal of Machine Learning Research (2020, 2021), Bioinformatics (2022), IEEE Transactions on Knowledge and Data Engineering (2021), INFORMS Journal on Computation (2022), INFORMS Journal on Optimization (2021), ACM Transactions on Knowledge Discovery from Data (2019), IEEE Transactions on Mobile Computing (2020), Elsevier Signal Processing (2021)

Member of the appointment commission for the professorship *Data Mining* (TU Dortmund University, 2017)

Grants

DFG Emmy Noether grant (own funding 970 460 + 776 460 €)

RWTH Junior Principal Investigator Fellowship (own funding 958 918 €)

Principal investigator of the DFG graduate school “UnRAVeL – UNcertainty and Randomness in Algorithms, VERification and Logic”

Associated principal investigator of the Helmholtz School for Data Science in Life, Earth and Energy (HDS-LEE) graduate school

DAAD IFI postdoc scholarship for a 13 month stay at the Mila–Quebec AI Institute (own funding 38 909 €)

Research associate and PhD student within the Collaborative Research Center SFB 876, assisted in preparing the grant proposal for project A6 *Resource-efficient Graph Mining*

Academic Outreach

Talk and plenary session at the German Academic International Network (GAIN) meeting 2022

Interview for the DAAD magazine on my experience of moving back to Germany to continue my research career

Other

Computational Skills Python, C++, \LaTeX , NumPy, Scikit-learn, PyTorch, PyTorch Geometric

Languages German (native), English (fluent)

Citizenship German and British

References

Professor Petra Mutzel (main PhD advisor)
Computational Analytics,
Department of Computer Science,
University of Bonn
petra.mutzel@cs.uni-bonn.de

Professor Martin Grohe (collaborator)
Logic and Theory of Discrete Systems,
Department of Computer Science,
RWTH Aachen University
grohe@informatik.rwth-aachen.de

Professor Kristian Kersting (second PhD advisor)
Artificial Intelligence and Machine Learning Lab,
Department of Computer Science and and Centre for Cognitive Science,
TU Darmstadt
kersting@cs.tu-darmstadt.de

Professor Andrea Lodi (postdoctoral advisor)
Andrew H. and Ann R. Tisch Professor,
Jacobs Technion-Cornell Institute,
Cornell University
andrea.lodi@cornell.edu