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Curriculum Vitae

Nationality	German										
Date of birth	July 1, 1991										
Research Interests	My goal is to devise algorithms that solve important problems efficiently. I am broadly interested in topics from combinatorial optimization including approximation algorithms, online algorithms, parameterized algorithms, and integer programming.										
Academia	<table> <tr> <td>Assistant Professor Maastricht University (Maastricht, Netherlands)</td><td>01/2022 - ongoing</td></tr> <tr> <td>Post-Doc EPFL (Lausanne, Switzerland)</td><td>10/2019 - 12/2021</td></tr> <tr> <td>Ph.D. University of Kiel (Kiel, Germany)</td><td>02/2016 - 09/2019</td></tr> <tr> <td>M.Sc. (Computer Science) University of Kiel (Kiel, Germany)</td><td>03/2013 - 02/2016</td></tr> <tr> <td>B.Sc (Computer Science) University of Kiel (Kiel, Germany)</td><td>10/2010 - 02/2013</td></tr> </table>	Assistant Professor Maastricht University (Maastricht, Netherlands)	01/2022 - ongoing	Post-Doc EPFL (Lausanne, Switzerland)	10/2019 - 12/2021	Ph.D. University of Kiel (Kiel, Germany)	02/2016 - 09/2019	M.Sc. (Computer Science) University of Kiel (Kiel, Germany)	03/2013 - 02/2016	B.Sc (Computer Science) University of Kiel (Kiel, Germany)	10/2010 - 02/2013
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Industry	<table> <tr> <td>Research Assistant VMWare (Palo Alto, USA)</td><td>04/2015 - 06/2015</td></tr> <tr> <td>Research Assistant Oracle Labs (Redwood Shores, USA)</td><td>02/2014 - 04/2014</td></tr> <tr> <td>Research Assistant Oracle Labs (Redwood Shores, USA)</td><td>03/2013 - 09/2013</td></tr> </table>	Research Assistant VMWare (Palo Alto, USA)	04/2015 - 06/2015	Research Assistant Oracle Labs (Redwood Shores, USA)	02/2014 - 04/2014	Research Assistant Oracle Labs (Redwood Shores, USA)	03/2013 - 09/2013				
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Grants, Awards, and Honors	<ul style="list-style-type: none"> ▶ I was granted an NWO (Dutch research foundation) open competition M grant for the project “The Twilight Zone of Efficiency: Optimality of Quasi-Polynomial Time Algorithms” (EUR 290,000). ▶ I am member of LNMB (Dutch Network on the Mathematics of Operations Research) and GSBE (Graduate School of Business and Economics, Maastricht University). ▶ I was admitted a scholarship by the Studienstiftung (German Academic Scholarship Foundation), a prestigious German organization that supports exceptionally talented students. ▶ I won the award for the best Ph.D. in the year 2019 by the “Förderverein der TF” of the University of Kiel. ▶ My Master’s degree was among the three best (by grade) within the graduating class. My Bachelor’s degree was the best (by grade). 										
Other Activities	I have been in the program committee of WAOA’20 and I am regularly peer-reviewing for various conferences and journals.										

Publications

- [1] Etienne Bamas, Lars Rohwedder. *Better Trees for Santa Claus*. Preprint.
- [2] Kim-Manuel Klein, Adam Polak, Lars Rohwedder. *On Minimizing Tardy Processing Time, Max-Min Skewed Convolution, and Triangular Structured ILPs*. SODA'23.
- [3] Alexander Armbruster, Lars Rohwedder, Andreas Wiese. *A PTAS for Minimizing Weighted Flow Time on a Single Machine*. Preprint.
- [4] Nikhil Bansal, Lars Rohwedder, Ola Svensson. *Flow Time Scheduling and Prefix Beck-Fiala*. STOC'22.
- [5] Leah Epstein, Alexandra Lassota, Asaf Levin, Marten Maack, Lars Rohwedder. *Cardinality Constrained Scheduling in Online Models*. STACS'22.
- [6] Xinrui Jia, Lars Rohwedder, Kshiteej Sheth, Ola Svensson. *Towards Non-Uniform k -Center with Constant Types of Radii*. SOSA'22.
- [7] Sebastian Berndt, Max A. Deppert, Klaus Jansen, Lars Rohwedder. *Load Balancing: The Long Road from Theory to Practice*. ALLENEX'22.
- [8] Etienne Bamas, Paritosh Garg, Lars Rohwedder. *The Submodular Santa Claus Problem in the Restricted Assignment Case*. ICALP'21.
- [9] Adam Polak, Lars Rohwedder, Karol Wegrzycki. *Knapsack and Subset Sum with Small Items*. ICALP'21.
- [10] Moritz Buchem, Lars Rohwedder, Tjark Vredeveld, Andreas Wiese. *Additive Approximation Schemes for Load Balancing Problems*. ICALP'21.
- [11] Lars Rohwedder, Andreas Wiese. *A $(2+\epsilon)$ -approximation algorithm for preemptive weighted flow time on a single machine*. STOC'21.
- [12] Jana Cslovjcek, Friedrich Eisenbrand, Christoph Hunkenschroder, Lars Rohwedder, Robert Weismantel. *Block-Structured Integer and Linear Programming in Strongly Polynomial and Near Linear Time*. SODA'21.
- [13] Etienne Bamas, Andreas Maggiori, Lars Rohwedder, Ola Svensson. *Learning Augmented Energy Minimization via Speed Scaling*. NeurIPS'20.
- [14] Paritosh Garg, Sagar Kale, Lars Rohwedder, Ola Svensson. *Robust Algorithms under Adversarial Injections*. ICALP'20.
- [15] Lars Rohwedder. *Algorithms for Integer Programming and Allocation*. Ph.D. thesis.
- [16] Klaus Jansen, Alexandra Lassota, Lars Rohwedder. *Near-Linear Time Algorithm for n -fold ILPs via Color Coding*. ICALP'19 / SIAM J. Discrete Math'20.
- [17] Klaus Jansen, Lars Rohwedder. *Local Search Breaks 1.75 for Graph Balancing*. ICALP'19.
- [18] Marin Bougeret, Klaus Jansen, Michael Poss, Lars Rohwedder. *Approximation Results for Makespan Minimization with Budgeted Uncertainty*. WAOA'19 / Theory Comput. Syst.'21.

- [19] Sebastian Berndt, Leah Epstein, Klaus Jansen, Asaf Levin, Marten Maack, Lars Rohwedder. *Online Bin Covering with Limited Migration*. ESA'19.
- [20] Klaus Jansen, Lars Rohwedder. *On Integer Programming, Discrepancy, and Convolution*. ITCS'18 / Math. OR'22.
- [21] Klaus Jansen, Lars Rohwedder. *A Note on the Integrality Gap of the Configuration LP for Restricted Santa Claus*. Inf. Process. Lett.'20.
- [22] Klaus Jansen, Lars Rohwedder. *Compact LP Relaxations for Allocation Problems*. SOSA'18.
- [23] Klaus Jansen, Lars Rohwedder. *A Quasi-Polynomial Approximation for the Restricted Assignment Problem*. IPCO'17 / SIAM J. Comput.'20.
- [24] Klaus Jansen, Lars Rohwedder. *Structured Instances of Restricted Assignment with Two Processing Times*. CALDAM'17.
- [25] Klaus Jansen, Lars Rohwedder. *On the Configuration-LP of the Restricted Assignment Problem*. SODA'17.

Teaching
Activities

Algorithms and Optimisation (Maastr.)	Coordinator / Tutor	Fall'22
Supply Chain Op. Mngmt. (Maastr.)	Tutor	Fall'22
Mngmt. of Op. and Prod. Dev. (Maastr.)	Coordinator / Tutor	Spring'22
Advanced Algorithms (Maastr.)	Coordinator / Tutor	Spring'22
Algorithms (EPFL)	Teaching Assistant	Fall'21
Approximation Algorithms (Kiel)	Teaching Assistant	Summer'19
Introd. to Operations Research (Kiel)	Teaching Assistant	Winter'18/19
Efficient Algorithms (Kiel)	Teaching Assistant	Summer'18
Introd. to Operations Research (Kiel)	Teaching Assistant	Winter'17/18
Efficient Algorithms (Kiel)	Teaching Assistant	Summer'17
Introd. to Operations Research (Kiel)	Teaching Assistant	Winter'16/17
Efficient Algorithms (Kiel)	Teaching Assistant	Summer'16
Theoretical Computer Science (Kiel)	Teaching Assistant	Winter'13/14
Software Engineering (Kiel)	Teaching Assistant	Winter'12/13
Algorithms and Data Structures (Kiel)	Teaching Assistant	Summer'12