Lars Rohwedder

PERSONAL DETAILS

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- **Education and key qualifications**

01/10/2019	Ph.D. in Computer Science (summa cum laude) University of Kiel, Kiel, Germany Supervisor: Klaus Jansen
2016	Master in Computer Science University of Kiel, Kiel, Germany

- **Current position**

2024-ongoing	Associate Professor Faculty of Science, University of Southern Denmark (SDU), Odense, Denmark

- **Previous positions**

2022-2024	Assistant Professor School of Business and Economics, Maastricht University, Maastricht, Netherlands
2019-2021	Post-Doc School of Computer and Communication Sciences, EPFL, Lausanne, Switzerland Ola Svensson's Lab
2015	Research Assistant VMWare, Palo Alto, USA duration: 3 months
2013-2014	Research Assistant Oracle Labs, Redwood Shores, USA duration: 9 months

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Publications (selection)

Below is a selection of my 10 most significant publications.

[1] Alexander Armbruster, Lars Rohwedder, and Andreas Wiese. "A PTAS for Minimizing Weighted Flow Time on a Single Machine". In: *Proceedings of STOC*. 2023, pp. 1335–1344.

[2] Etienne Bamas, Sarah Morell, and Lars Rohwedder. "The Submodular Santa Claus Problem". In: *Proceedings of SODA*. to appear. 2025.

[3] Étienne Bamas, Alexander Lindermayr, Nicole Megow, Lars Rohwedder, and Jens Schlöter. "Santa Claus meets Makespan and Matroids: Algorithms and Reductions". In: *Proceedings of SODA*. Invited to TALG special issue. 2024.

[4] Étienne Bamas and Lars Rohwedder. "Better Trees for Santa Claus". In: *Proceedings of STOC*. 2023, pp. 1862–1875.

[5] Nikhil Bansal, Lars Rohwedder, and Ola Svensson. "Flow time scheduling and prefix Beck-Fiala". In: *Proceedings of STOC*. Invited to SICOMP special issue. 2022, pp. 331–342.

[6] Jana Cslovjecsek, Friedrich Eisenbrand, Christoph Hunkenschröder, Lars Rohwedder, and Robert Weismantel. "Block-Structured Integer and Linear Programming in Strongly Polynomial and Near Linear Time". In: *Proceedings of SODA*. 2021, pp. 1666–1681.

[7] Friedrich Eisenbrand, Lars Rohwedder, and Karol Wegrzycki. "Sensitivity, Proximity and FPT Algorithms for Exact Matroid Problems". In: *Proceedings of FOCS*. to appear. 2024.

[8] Klaus Jansen and Lars Rohwedder. "A quasi-polynomial approximation for the restricted assignment problem". In: *SIAM Journal on Computing* 49.6 (2020), pp. 1083–1108.

[9] Kim-Manuel Klein, Adam Polak, and Lars Rohwedder. "On Minimizing Tardy Processing Time, Max-Min Skewed Convolution, and Triangular Structured ILPs". In: *Proceedings of SODA*. 2023, pp. 2947–2960.

[10] Lars Rohwedder and Andreas Wiese. "A $(2+\epsilon)$-approximation algorithm for preemptive weighted flow time on a single machine". In: *Proceedings of STOC*. 2021, pp. 1042–1055.

Invitations (selection)

2024	Invited to Oberwolfach seminar on Combinatorial Optimization
2024	Invited lecture at Oberseminar of Bonn University
2023	Keynote talk at Gerhard Woeginger Research Colloquium of RWTH Aachen
2023	Invited lecture at theory seminar of University of Michigan
2023	Invited to Workshop on Combinatorics of Integer Programming at Rényi Institute
2023	Invited lecture at SPOR seminar of TU Eindhoven
2023	Invited lecture at online Scheduling seminar
2022	Plenary talk at Dutch Day of Optimization
2021	Invited to Hausdorff Trimester on Discrete Optimization
2020-2025	Invited to Dagstuhl seminar on Scheduling (3x)

Reviewing and committees

- Program committee chair of workshop MAPSP'26
- Program committee member of conferences and workshops STACS'25, MAPSP'24, ICALP'24, APPROX'23, SODA'23, WAOA'20.
- Guest editor for SODA'23 special issue of TALG.

Academic fellowships and memberships

- LNMB member (Dutch Network on the Mathematics of Operations Research)
- GSBE fellowship (Graduate School of Business and Economics, Maastricht University)
- Alumni of Studienstiftung (German Academic Scholarship Foundation).

Grants and awards

2023-2027	NWO open competition M1 grant (€290,737.00) ranked #1 out of 23 proposals within cluster
2019	Award for Ph.D. thesis of the year by "Förderverein der TF" of Kiel University

ADDITIONAL INFORMATION

Teaching

Apart from very active teaching within my departments, I have contributed to education of early-stage researchers in the following roles.

- Lecturer of Ph.D. course *Randomized Algorithms* for LNMB network (together with René Sitters)
- Organization of a cross-institution reading group on learning-augmented algorithms (2022, together with Daniel Dadush, CWI, and Antonios Antoniadis, UTwente).
- Organization of the Operations Research Lunch Seminar at Maastricht University.

Supervision

- I am supervisor of Ph.D. student Leo Wennmann (since 2023). She is working on my own NWO open competition grant. Further, I am co-supervising the Ph.D. student Ashkan Safari (since 2022; together with Tjark Vredeveld). I have served in the Ph.D. committee of Moritz Buchem (2022).
- I have hosted various research visit from (Ph.D.) students: Leander Schnaars at SDU 2024-2025 (4 months), Sarah Morell in Maastricht in 2023 (1 month; resulted in SODA'25 paper), Arthur Leonard in 2022 (6 months; together with Daniel Dadush; mostly online from CWI; resulted in IPCO'23 paper).
- I have supervised 8 B.Sc. theses in Maastricht, 3 M.Sc. thesis in Maastricht, 1 M.Sc. thesis in Kiel, 2 B.Sc. theses in Kiel.
- I have supervised several long-term research projects with Master students at Maastricht: Peter van Mill (2023-2024), Tobias Breuer (2022-2023).