

Curriculum Vitae Dr. habil. Karin Quaas

Address:
Universität Leipzig
Fakultät für Mathematik und Informatik
Abteilung Algebraische und logische
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PF 100920
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Education

11/2019	Habilitation, University of Leipzig
10/2006 - 03/2010	PhD, Institute for Computer Science, University of Leipzig (summa cum laude)
08/2005 - 10/2006	International Master Programme Computer Science, University of Uppsala, Sweden
10/2002 - 08/2005	Studies Computer Science, Logic and Philosophie of Science, Univ. of Leipzig
10/1998 - 10/2002	Studies Media Technology, HTWK Leipzig

Work Experience

03/2023 - 02/2026	Head of the DFG Project "Temporal Logics over Finite Words and the Prefix Order" (QU 316/6-1)
10/2022 - jetzt	Assistant Professor in the department "Algebraische und logische Grundlagen der Informatik", Institute for Computer Science, Univ. of Leipzig
04/2022 - 09/2022	Deputy Professor at the Institute for Computer Science, University of Leipzig
04/2019 - 03/2022	Head of the DFG Project "Temporal Logics with Constraints" (QU 316/4-1) Institute for Computer Science, University of Leipzig
10/2018 - 03/2019	Deputy Professor at the Department of Computer Science, Univ. of Oldenburg
10/2015 - 09/2018	Head of the DFG Project "Verification of Weighted Timed Automata" (QU 316/2-1)
10/2012 - 2022	Associated Member of the DFG RTG "Quantitative Logics and Automata" (GRK 1763)
04/2011 - 03/2014	Head of the DFG Project "Verification of Weighted Timed Automata" (QU 316/1-1)
03/2010 - 09/2018	Postdoc in the department "Automata and Languages", Institute for Computer Science, University of Leipzig
09/2002 - 08/2005	Scientific Assistant at the Institute for Medical Informatics, Statistics and Epidemiology, University of Leipzig

Scholarships

10/2008 - 02/2010	"Landesstipendium" at the University of Leipzig
10/2006 - 09/2008	DFG RTG "Knowledge Representation" (GRK 446)

Teaching Experience

If not declared otherwise, the following courses took place at the Institute for Computer Science, University of Leipzig.

- Introduction to Verification (Vorlesung und Übung)
 - SS 2025 (4 SWS)
 - SS 2024 (4 SWS)
 - SS 2023 (4 SWS)
 - SS 2022 (3 SWS)
 - SS 2015 (3 SWS)
- Logics and Automata for Data Languages (Lecture and Tutorial)
 - WS 2024/25 (4 SWS)
 - WS 2023/24 (4 SWS)
- Timed Automata (Lecture and Tutorial)
 - WS 2023/24 (4 SWS)
 - SS 2022 (3 SWS)
 - SS 2024 (3 SWS)
 - WS 2012/2013 (3 SWS)
- Theoretical Computer Science II (Lecture and Tutorial), University of Oldenburg
 - WS 2018/19 (4 SWS)
- Verification of Infinite-State Systems (Lecture and Tutorial), University of Oldenburg
 - WS 2018/19 (4 SWS)
- Foundations of Machine Learning (Tutorial)
 - WS 2024/25
- Tutorials for Foundations of Theoretical Computer Science, e.g., Discrete Structures, Automata and Languages, Computability, Logics (since 2003)

Funding Grants

03/2023 - 02/2026	DFG Basismodul, Head of the Project “Temporal Logics over Finite Words and the Prefix Order” (QU 316/6-1), Position for one PhD student
04/2019 - 03/2022	DFG Eigene Stelle (funding of my own position), Head of the Project “Temporal Logics with Constraints” (QU 316/4-1)
10/2015 - 09/2018	DFG Eigene Stelle (funding of my own position), Head of the Project “Verification of Weighted Timed Automata” (QU 316/2-1)
04/2011 - 03/2014	DFG Eigene Stelle (funding of my own position), Head of the Project “Verification of Weighted Timed Automata” (QU 316/1-1)

Membership in Program Committees

- International Symposium on Mathematical Foundations of Computer Science (MFCS), 2025
- International Conference on Foundations of Software Science and Computation Structures (FOSSaCs), 2025
- International Conference on Concurrency Theory (CONCUR), 2023
- Symposium on Theoretical Aspects of Computer Science (STACS), 2022
- Computer Science Logic (CSL), 2022
- Foundations of Software Technology and Theor. Comp. Science (FSTTCS) (Track B), 2021
- International Conference on Concurrency Theory (CONCUR), 2021
- Highlights of Logic, Games and Automata, 2020
- Computability in Europe (CiE), 2020
- Foundations of Software Technology and Theor. Comp. Science (FSTTCS) (Track B), 2019
- Logic in Computer Science (LICS), 2019
- Developments in Language Theory (DLT), 2019
- Formal Modelling and Analysis of Timed Systems (FORMATS), 2019
- Int. Workshop on Methods and Tools for Distributed Hybrid Systems (DHS), 2017
- CONCUR young researchers workshop (YR-CONCUR), 2017
- Formal Modelling and Analysis of Timed Systems (FORMATS), 2016 and 2017
- Synthesis of Complex Parameters (SynCoP), 2016
- Frontiers of Formal Methods (FFM), 2015
- Workshop on Quantities in Formal Methods (QFM), 2012 and 2014

Invited Talks

- Jewels of Automata: from Mathematics to Applications (AutoMathA), Bordeaux 2024
- Graduate School ScaDS.AI Dresden/Leipzig (GSP Seminar), Cottbus 2023
- 10th Int. Workshop Weighted Automata: Theory and Applications (WATA 2021), Marseille 2020 (online)
- 5th Int. Workshop on Synthesis of Complex Parameters (SynCoP 2018), Thessaloniki 2018
- 8th Int. Workshop Weighted Automata: Theory and Applications (WATA 2016), Aalborg 2016
- 6th Int. Workshop Weighted Automata: Theory and Applications (WATA 2012), Dresden 2012

Organisation of Conferences und Workshops

- Dagstuhl Seminar 21452 “Unambiguity in Automata Theory” (with Thomas Colcombet and Michał Skrzypczak), Schloss Dagstuhl 2021.

Academic Self-Governance

Member of the appeal committees at the Institute for Computer Science, University of Leipzig:

- Wissensrepräsentation, 2019-2020
- Algebraische und logische Grundlagen der Informatik, 2014-2015
- Schwarmintelligenz und Komplexe Systeme, 2015
- Computational Humanities, 2014
- Digital Humanities, 2012

Languages

German (Mother tongue), English, French, Swedish

Further Qualifications

2019/2020 Teacher training “Good Scientific Practise”, University of Leipzig

2018 Colloquium “Teaching in Mathematics and Computer Science”, University of Leipzig