

Short CV

Prof. Dr. habil. Florian Rabe

University Erlangen-Nuremberg, Amazon Web Services

Name	Prof. Dr. habil. Florian Rabe, born in Wolfsburg, 28.09.1979, ORCID 0000-0003-3040-3655
School	1986 – 1999, Wolfsburg, <i>best possible GPA</i>
MSc	Computer Science, 2000 – 2004, University of Karlsruhe, <i>best possible GPA, with distinction</i> Title: A Dynamic Logic with Temporal Operators for Promela
PhD	Computer Science, 2005 – 2008, Jacobs University Bremen (JUB), with Prof. Kohlhase, <i>with distinction</i> Title: Representing Logics and Logic Translations
Habilitation	Computer Science, June 2014, JUB, with Prof. Kohlhase Title: A Scalable Logical Framework
Employment	2008–2017: post-doctoral research fellow, JUB 2017 spring: substitute professor, computer science, JUB 2018–2019: post-doc, Universities Erlangen-Nuremberg (FAU) and Paris-Sud 2019–2025: Oberrat, Technical Faculty, FAU (100%) 2021–: Amazon Visiting Academic (20%) 2024 summer: W3 professor, Geo- and Social Data, Philosophical Faculty, FAU
Awards and Scholarships	
2005	Best MSc. thesis Award, Karlsruhe Research Center Computer Science
2006	DAAD PhD scholarship (1 year)
2006	Winner Modal Logic \$100 Challenge
2007–2008	PhD scholarship German Merit Foundation (1.5 years)
2010	Conference on Mathematical Knowledge Management, best paper
2015	World Congress on Universal Logic, contest winner “The Future of Logic”
2019	Conference on Intelligent Computer Mathematics, best paper
2021	Conference on Intelligent Computer Mathematics, best system paper
Research interests: UniFormal Knowledge Representation	
theory	formal systems, semantics, translations, meta-theory
practice	language frameworks, system integration, library management, user interfaces, software verification
aspects	ontologies, logics, programming languages, databases, informal documents
application domains	CS, mathematics, STEM, social sciences
Teaching	
undergraduate	5 courses, 11 seminars and labs
graduate	13 courses, 27 seminars and labs
Advising of students	21 BSc, 16 MSc theses (some ongoing) member in 3 PhD. thesis committees
Third party funding	
2009–2012	Logic Atlas and Integrator (LATIN, DFG), de-facto PI, 2 positions
2014–2020	An Open Archive of Formalizations (OAF) (DFG), PI, 2 positions
2015–2019	OpenDreamKit: Virtual Mathematical Research Environments (EU), PI

Major software projects

MMT system	language definition framework, > 100kloc
LATIN atlas	library of logic definitions, > 1000 MMT modules
OAF archive	≈ 10 proof assistant libraries, > 2M MMT declarations

Major invited research visits

2006 (1 year)	Carnegie Mellon University, Pittsburgh, USA, with Prof. Frank Pfenning (DAAD scholarship)
Jan 2009	IT University Copenhagen, Denmark, with Prof. Carsten Schürmann
June 2010	IT University Copenhagen, Denmark, with Prof. Carsten Schürmann
Jan 2011	McMaster University, Hamilton, Ontario, Canada, with Prof. William Farmer, Prof. Jacques Carette
June 2013	University of Zurich, Switzerland, with Prof. Paul-Olivier Dehaye
Feb 2014	University of Innsbruck, Austria, with Dr. Cezary Kaliszyk
Sep 2014	Chalmers University of Technology, Gothenburg, Sweden, with Dr. Cezar Ionescu
Mar+April 2015	SRI International, Menlo Park, California, US, with Dr. Natarajan Shankar, and Kestrel Institute, Palo Alto, California, US, with Dr. Cordell Green
Jan. 2016	University of Innsbruck, Austria, with Dr. Cezary Kaliszyk
Sep 2016	ENSIIE, Paris, France, with Prof. Catherine Dubois
Nov 2017	WIAS, Berlin, Germany, with Dr. Thomas Koprucki
Dec 2017	LRI, Paris, France, with Prof. Nicolas Thiéry
Aug 2018	McMaster University, Hamilton, Ontario, Canada, with Prof. William Farmer, Prof. Jacques Carette
May 2019	ICMS Edinburgh, Workshop on Big Proof
Feb 2020	Hausdorff Center for Mathematics Bonn, Workshop on Mathematical Language and Practical Type Theory
Nov 2023	Dagstuhl Seminar on Next Generation Deduction Systems
Dec 2023	AIM, Pasadena, US, Workshop on Open-source cyberinfrastructure supporting mathematics research
Jun-Aug 2024	Hausdorff Center for Mathematics, Bonn, Germany, Trimester “Prospects of Formal Mathematics”

Academic Self-Governance

2008 – 2010	Member Staff Council (Jacobs University)
2010 – 2012	Member provost search committee (Jacobs University)
2011 – 2012	Member constitution committee (Jacobs University)
2010 – 2013	Member board of trustees MKM interest group
2012 – 2015	Member steering committee CICM conference
2015 –	Member (2015–2017: observer) IFIP WG 2.1
2016 –	Secretary OpenMath Society executive committee
2017 – 2019	Member steering committee of CICM conference
2017 – 2022	Member (2018-2022: chair) steering committee of LFMTP workshop
2019 – 2024	Member of advisory board EU project TiPES
2020	Member of professor hiring committee (FAU)

Organization of meetings

8 conferences, 17 workshops

Program committee member

21 conferences (1 as general chair, 3 as track chair)
30 workshops (10 as chair)

Editorships

4 LNCS, 8 other collections

Publications

Counts	1 patent, 21 in journals, 67 in formally reviewed proceedings, 36 other
Google Scholar	1808 citations, h-index 23, i10-index 57
Scopus	730 citations, h-index 15

Invited talks

15 in research seminars, 11 at scientific meetings