

Curriculum Vitae

General Information

Name: Krafczyk, Manfred
Date of birth: 24.02.1965
Marital status: married to Architect Dr.-Ing. Christina Krafczyk



Address: Waldstraße 10, 30938 Burgwedel

Phone: +49 531 391-10004
E-Mail: hvp-dn@tu-braunschweig.de
web: <https://www.tu-braunschweig.de/struktur/praesidium/vp-dn>
Position: Senior Vice-President Digitalization & Sustainability @ TU Braunschweig

Education

1987 – 1991 TU Dortmund, Physics Diploma, Advisor Prof. Dr. Mario Markus, Max-Planck-Institut für molekulare Physiologie

Degrees

Ph.D. Dr.-Ing. (with honors) „Simulation von Strömungen mit Gittergasmethoden“, TU Dortmund, 1995, Advisor: Prof. Dr. rer. nat. Ernst Rank

Professorial thesis (Habilitation) Bauinformatik (Computer Science in (Civil) Engineering), TU München, 2001, Reviewers: Prof. Dr. rer. nat. Ernst Rank TU München, Prof. Dr.-Ing. Rainer Helmig, U. Stuttgart

Professional Career

1991-1994 Ph.D. scholarship Siemens AG
1995-1997 PostDoc, Chair for Numerical Methods, TU Dortmund
1997-2001 Assistant Prof. (tenure), Chair Bauinformatik, TU München
since 2001 Full Professor and Head of Institute for Computational Modeling in Civil Engineering, TU Braunschweig
04/2020-05/2022 Vice-President for Digitalization and Technology Transfer TU Braunschweig
06/2022-08/2023 Senior Vice-President for Digitalization and Sustainability TU Braunschweig (temporarily charged with the conduct of affairs)
since 09/2023 Senior Vice-President for Digitalization and Sustainability TU Braunschweig

Academic Administrative Activities

2002-2020 Speaker of the international Master program *Computational Sciences in Engineering* (CSE) at TU Braunschweig
2003-2006 Member of Public Relations Committee of Civil Engineering Department
2003-2006 Member of Infrastructure Committee of Civil Engineering Department
2003-2011 Member of Sports Committee of TU Braunschweig
since 2003 Head of four Professorial Appointment Committees and member of thirteen more
2014-2015 Member of Sports Committee of TU Braunschweig
2003-2004 Member of Infrastructure Committee of TU Braunschweig
2004-2006 Member of IT & Communication Committee of TU Braunschweig

2006-2007 Provisional head of Gauss-Computing Center at TU Braunschweig

2005-2017 Member of Department Council

since 2006 Head of departmental IT-Committee

2006-2016 Organizer of Double-Degree-Master Program between department of Civ. Eng. and Dept. of Ocean Engineering University of Rhode Island

2007-2013 Department representative for International Affairs

2007-2009 Speaker of Gauss-Center for Modelling and Simulation at TU Braunschweig

2011-2018 Member of tubs.CITY

2009-2013 Member of IT-Commission at TU Braunschweig

2013-2019 Member IT-Steering Committee at TU Braunschweig

2011-2019 Member of Senate of TU Braunschweig

2011-2013 Member of advisory council for the Language Center of TU Braunschweig

2012-2014 Senator of Niedersächsische Technische Hochschule (NTH)

2012-2013 Member of advisory Council for Energy Awareness at TU Braunschweig

2011-2012 Dean of the Department of Architecture, Civil Engineering and Environmental Sciences

2011-2012 Member Board of Trustees *Vereinigte Stiftung der Technischen Universität Carolo-Wilhelmina zu Braunschweig*

2013-2014 Vice-Dean of the Department of Architecture, Civil Engineering and Environmental Sciences

2015-2019 Vice-Speaker DFG-network of TU Braunschweig

2016-2019 Vice-Speaker of MUSEN-Center (Mechanics, Uncertainty and Simulation in Engineering) at TU Braunschweig (<https://www.tu-braunschweig.de/en/musen>)

since 2020 Speaker of MUSEN-Center

2016-2020 Speaker of HPC-User Council of TU Braunschweig

since 2020 Head of Advisory Committee University Library TU Braunschweig

2020-2021 Head of IT-Steering Committee TU Braunschweig

2020-2022 Deputy Head of Supervisory Board Energie-Forschungszentrum Niedersachsen (EFZN)

since 2023 Head of Supervisory Board Energie-Forschungszentrum Niedersachsen (EFZN)

2020-2022 Member Steering Committee ForschungRegion Braunschweig

since 2020 Member LHK-Work Group Digital Affairs
(LHK= State University Conference Lower Saxony)

2020-2022 Member LHK-Work Group Third Mission

since 2020 Member Administrative Board Braunschweigischer Hochschulbund

since 2020 Member of Steering Committee NFDI4Ing (<https://nfdi4ing.de>)

since 2021 Member CIO-Board TU9 (<https://www.tu9.de/>)

since 2021 Task Force Infrastructures in CESAER (Conference of European Schools for Advanced Engineering Education and Research)

2021-2023 Member of Strategy Board National High-Performance Computing NHR (Gem. Wiss. Kommission des Bundes und der Länder GWK)

2020-2022 Board Member Research Airport Braunschweig

since 2020 Board Member Metropolregion

2020-2022	Board Member TU9-Council Innovation & Transfer
2020-2022	Board Member ForschungRegion Braunschweig
2022-2024	Board Member EUA Digital Transformation Steering Committee
2024-2025	Board Member EUA task-and-finish group on Artificial Intelligence

Activities in Teaching & Research

08/1997-11/1997	Guest lecturer at Inst. for Biomechanics (Prof. Dr. Miguel Cerrolaza, Universidad Central de Venezuela, Caracas, Venezuela)
09/1999-11/1999	Guest lecturer at Inst. für Terrestrische Ökologie (Prof. Dr. Hannes Flüher, ETH Zürich)
06/2000-08/2000	Visiting scientist at the Institute for Computer Applications in Science and Engineering (ICASE), NASA Langley, Virginia, USA
since 2001	Reviewer for DFG, EU (e.g. H2020-FETOPEN 2016-2021, EIC PATHFINDER OPEN 2022), BMBF, FFG, WWTF, NSF, PRACE and other institutions
2008 - 2017	Member of ISAP-reviewer board of DAAD
since 2004	Co-chairman and Scientific Committee member of <i>Int. Conference on Mesoscopic Methods in Engineering and Science</i> (ICMMES) (www.icmmes.org)
2006-2008	Member of Technical Committee <i>Civil Engineering and Surveying</i> at ASIIN (Accreditation agency for Ba and Ma study programs in physical sciences, mathematics and engineering)
since 2023	Mitglied der Akkreditierungskommission der ASIIN
2008-2010	Chairman of Technical Committee Civil Engineering and Surveying at ASIIN
since 2011	Ass. Editor <i>Computers & Mathematics with Applications</i>
2011-2021	Ass. Editor <i>Computers and Fluids</i>
2012-2020	Ass. Editor <i>Mathematical Problems in Engineering</i>
since 2017	Editorial Board Member <i>J. of Applied and Computational Mechanics</i>
2017-2020	Editorial Board Member <i>Computation</i>
since 2017	Editorial Board Member <i>Advances in Engineering Software</i>
2021-2023	Editorial Board Member <i>ing.grid</i> (https://www.inggrid.org/)
2011-2019	Board member (Fachkollegiat) of DFG-Fachkollegium 410 (National Research Funding Agency, Chapter Civil Engineering and Architecture)
2011-2017	Member of Standing Committee of <i>Fakultätentag für Bauingenieurwesen, Geodäsie und Umweltingenieurwesen</i> (FTBGU)
2013-2021	Vice-Chair National Committee <i>Computational Sciences and Engineering (CSE)</i>

Memberships

since 2008	Braunschweigische Wissenschaftliche Gesellschaft (<i>BWG, Academy of Science Lower Saxony</i>)
since 2009	Windtechnologische Gesellschaft (WtG, Society of Wind Technology)
since 2010	Working committee Numerical Methods in Wind engineering (WtG)
since 2012	Gesellschaft für Angewandte Mathematik und Mechanik (GAMM)
since 2002	German Association for Computational Mechanics (GACM)

Publications

> 100 reviewed journal- und book contributions, h-index (Google Scholar): 49

<https://scholar.google.de/citations?user=yPfq77cAAAAJ&hl=de>

ORCID: orcid.org/0000-0002-8509-0871

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=6603418597>