Curriculum vitae with track record

Personal information

First name, Surname:	Klaus Johannsen		
Date of birth:	17.07.1963	Sex:	Male
Nationality:	German		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	https://orcid.org/0000-0002-0600-2715		

Education

Year	Faculty/department - University/institution - Country
2005	Professorial degree, Mathematics, Institute for Applied Mathematics, Heidelberg, Germany
1999	PhD, Mathematics, Institute for Applied Mathematics, Heidelberg, Germany
1992	Master, Physics, II. Institute for Theoretical Physics, University of Hamburg, Germany

Positions - current and previous
(*Academic sector/research institutes/industrial sector/public sector/other*)

Year	Job title – Employer - Country
2019-	Chief Scientist, Technology Department, Norwegian Research Centre - NORCE, Norway
2011-2018	Research Director of Uni Research Computing, Uni Research AS, Bergen, Norway
2010	Interim Director of Uni BCCS and Uni Digital, Uni Research AS, Bergen, Norway
2006-2009	Adjunct Professor for Applied Mathematics, University of Bergen, Norway
2005-2006	Assistant Professor, Institute for Applied Mathematics, Heidelberg University, Germany
2002	Visiting Professor, International University of Bremen, Bremen, Germany
2000-2004	Post-doc, Institute for Applied Mathematics, Heidelberg University, Germany

Career breaks

Year	Reason
2010	Paternity leave 5 months

Project management experience

(Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)

Year	Project owner - Project - Role - Funder
2023-2025	NAIC, Activity leader, NFR
2023-2025	EuroCC 2, NCC Co-leader, NFR, EU
2020-2022	EuroCC, NCC Co-leader, NFR, EU
2018-2022	COLUMBIA, WP-leader, collaborator, NFR
2018	Predict-fit, manager, NFR
2018	CEPOL, sub-project leader, NFR
2017-2018	SFE, sub-project leader, NFR
2016-2018	Sustainovate, manager, collaborator, Industry
2016	Agder Energi, collaborator, Industry
2015-2018	CBDA, Center leader, Uni Research AS
2015-2018	SLATE, WP-leader, Kunnskapsdepartementet
2009-2017	NORCOWE, sub-project leader, NFR
2009-2012	HPC-EUROPA2, WP-leader, EU
2007-2014	Tier-1, sub-project leader, NFR
2007-2012	NorStore, collaborator, NFR, NTNU, UiB, UiO, UiT
2006-2014	NOTUR II, sub-project leader, NFR, NTNU, UiB, UiO, UiT
2006-2010	EGEE II, sub-project leader, EU
2006-2008	HPC-EUROPA, WP-leader, EU

Supervision of students
(Total number of students)

Master's students	Ph.D. students	University/institution - Country
3	1	Institute for Applied Mathematics, Heidelberg University, Germany
0	1	Uni Research AS, Bergen, Norway
0	1	Norwegian Research Centre - NORCE, Norway

Other relevant professional experiences

(E.g. institutional responsibilities, organisation of scientific meetings, membership in academic societies, review boards, advisory boards, committees, major research or innovation collaborations, other commissions of trust in public or private sector)

Year	Description - Role
2015-2018	Director of Center for Big Data Analysis, Uni Research AS, Bergen, Norway
2014-2017	Board member of the 'Hjort Senter for Marine Ecosystem Dynamics, University of Bergen, Norway
2013-2016	Board member of the project 'Decision Support for installation of offshore wind turbines', CMR, Bergen, Norway
2012-2016	Board member of 'Uni Biotek', Uni Research AS, Bergen, Norway
2006-2010	Head of the High Performance Computing Group
2006	Full professor competence, Bergen Center for Computational Sciences, Unifob, Bergen, Norway
2005	Research Fellow, University of Texas at Austin, TX, USA

Track record

Total number of publications: 50 (16 peer reviewed, 34 grey articles), 1257 citations and h-Index 15 (Google Scholar)

Selected peer-reviewed publications:

R. Khotyachuk, K. Johannsen, Analysis of the Numerical Solutions of the Elder Problem Using Big Data and Machine Learning, BDCC 2023, 7(1), 52; https://doi.org/10.3390/bdcc7010052

 N. Goris, Klaus Johannsen, J. Tjiputra, The emergence of the Gulf Stream and interior western boundary as key regions to constrain the future North Atlantic carbon uptake, Geoscientific Model Development, 16(8), pp 2095-2117, 2023, https://doi.org/10.5194/gmd-16-2095-2023

K. Johannsen, N. Goris, J. Tjiputra, B. Jensen, A scalable, black-box hybrid genetic algorithm for continuous multimodal optimization in moderate dimensions, NMI 2(1), pp 16-27 (2022), https://doi.org/10.5617/nmi.9633

J.W. Elder, C.T. Simmons, H.J. Diersch, P. Frolkovič, E. Holzbecher, K. Johannsen, The elder problem, Fluids 2 (1), 11 (2017), https://doi.org/10.3390/fluids2010011

M. Elenius, K. Johannsen, On the time scales of nonlinear instability in miscible displacement porous media flow, Computational Geosciences volume 16, pp 901–911 (2012), https://doi.org/10.1007/s10596-012-9294-2

A.J. Landman, K. Johannsen, R. Schotting, Density-dependent dispersion in heterogeneous porous media Part I: A numerical study, AWR, 30 (12), 2467-2480 (2007)

K. Johannsen, S. Oswald, R. Held, W. Kinzelbach, Numerical simulation of three-dimensional saltwater–freshwater fingering instabilities observed in a porous medium, AWR 29(11), 1690-1704 (2006)

K. Johannsen, On the validity of the Boussinesq approximation for the Elder problem, Computational Geosciences 7 (3), 169-182 (2003)

K. Johannsen, The Elder problem—bifurcations and steady state solutions, Developments in Water Science 47, 485-492 (2002), https://doi.org/10.1016/S0167-5648(02)80099-5

K. Johannsen, W. Kinzelbach, S. Oswald, G. Wittum, The saltpool benchmark problem–numerical simulation of saltwater upconing in a porous medium, AWR 25 (3), 335-348 (2002)