

Björn Sandstede | Curriculum Vitae

Academic Positions

- Director, Data Science Initiative, Brown University 2018–present
- Department Chair, Division of Applied Mathematics, Brown University 2011–2017
- Professor of Applied Mathematics, Brown University 2008–present
- Research Professor, Department of Mathematics, University of Surrey 2004–2008
- Professor, Department of Mathematics, Ohio State University 2004–2005
- Associate Professor, Department of Mathematics, Ohio State University 2000–2004
- Assistant Professor, Department of Mathematics, Ohio State University 1997–2000
- Research Fellow, Weierstrass Institute for Applied Analysis and Stochastics 1993–1997

Education

- PhD degree (Dr rer nat), University of Stuttgart, Germany 1993
- Master's degree (Diplom), University of Heidelberg, Germany 1990

Honors, Awards, and Fellowships

- Royce Family Professor of Teaching Excellence, Brown University 2017–2020
- Graduate School Faculty Award for Advising and Mentoring, Brown University 2017
- Philip J Bray Award for Excellence in Teaching in the Physical Sciences, Brown University 2016
- Elsevier Jack K Hale Award 2014
- Comfort and Urry Prize for Leadership, Career Advising, and Motivation, Brown University 2014
- Fellow, Society for Industrial and Applied Mathematics 2013
- Outstanding Paper Prize, Society for Industrial and Applied Mathematics (with A Scheel) 2007
- Royal Society Wolfson Research Merit Award 2004
- JD Crawford Prize, SIAM Activity Group on Applied Dynamical Systems 2001
- Alfred P Sloan Research Fellowship 2000–2002
- Feodor–Lynen Fellowship, Alexander von Humboldt Foundation 1995–1996
- Fellowship, DFG Graduiertenkolleg, University of Stuttgart 1990–1993
- Fellowship, Studienstiftung des Deutschen Volkes 1989–1990

Publications

- 114 peer-reviewed journal articles (h-index: 32) published in mathematics journals (e.g., J Funct Anal, Numer Math, SIAM J Appl Dynam Syst, SIAM J Math Anal, Trans Amer Math Soc), science journals (e.g., Nature Comm, J Roy Soc Interface), and disciplinary journals (e.g., Biophys J, J Opt Soc Amer B, Monthly Weather Rev, PRL)

Selected Grants

- *T32 Predoctoral Training Program in Biological Data Science at Brown University* (Co-PI), NIH 2018-2023
- *TRIPODS: Foundations of Model Driven Discovery from Massive Data* (PI), NSF 2017–2020
- *Dynamics and stability of spatially extended patterns* (PI), NSF 2017–2020
- *Training and Teaching for Transforming Big Data to Knowledge* (Co-PI), NIH 2017-2020
- *RTG: Integrating Dynamics and Stochastics (IDyaS)* (PI), NSF 2012–2019
- *Institute for Computational and Experimental Research in Mathematics (ICERM)* (Co-PI), NSF 2010-2020

Advising and Mentoring

- Advised and mentored 21 PhD students and 18 postdoctoral fellows
- Worked with 49 undergraduate research students