Björn Sandstede | Curriculum Vitae

Experience

- Alumni-Alumnae University Professor of Applied Mathematics, Brown University 2022–present
- Department Chair, Division of Applied Mathematics, Brown University 2020–2023
- Director of Data Fluency Undergraduate Certificate, Brown University 2019–2022
- Director, Data Science Initiative, Brown University 2018–2020
- Department Chair, Division of Applied Mathematics, Brown University 2011–2017
- Professor of Applied Mathematics, Brown University 2008–2022
- 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

- Fellow, American Mathematical Society 2025
- Barrett Hazeltine Citation for Excellence in Teaching, Guidance, and Support, Brown University 2022
- 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

Publications

- 140+ peer-reviewed journal articles (h-index: 39) published in mathematics journals (e.g., Mem Amer Math Soc, Numer Math, SIAM J Appl Dynam Syst, SIAM J Math Anal, Trans Amer Math Soc), science journals (e.g., J Roy Soc Interface, Nature Comm, Sci Adv, PNAS), and disciplinary journals (e.g., Biophys J, J Comp Biol, Genetics, PLOS Comp Biol)

Grants

- Secured $76M in grant income (including $8M as PI) 1999–present
- *RTG: Mathematics of Information and Data with Applications to Science* (PI), NSF 2021–2026
- *Spiral Waves and Target Patterns* (PI), NSF 2021–2024
- *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 2017–2022
- *Institute for Computational and Experimental Research in Mathematics (ICERM)* (Co-PI), NSF 2010-2025

Advising and Mentoring

- Advised and mentored 24 postdoctoral fellows, 30 PhD students, and 71 undergraduate research students