

CURRICULUM VITAE

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EDUCATION

UNIVERSITY OF CAMBRIDGE, ENGLAND

PH.D. Applied Mathematics and Theoretical Physics, 1991,
Dissertation Title: Strong Spatial Resonances in Convection.
Part III. Mathematics Tripos, Certificate in Advanced Studies, 1987.

KINGS COLLEGE, UNIVERSITY OF LONDON, ENGLAND

B.Sc. Joint Honors in Mathematics and Physics, 1986.
1ST Class Honors.

PROFESSIONAL EXPERIENCE

<i>July 2015 – Present</i>	Chair, Department of Applied Mathematics, University of Colorado, Boulder, Colorado, U.S.A.
<i>July 2008 – Present</i>	Professor, Department of Applied Mathematics, University of Colorado, Boulder, Colorado, U.S.A.
<i>June 2006 - May 2009</i>	Graduate Studies Chair, Department of Applied Mathematics, University of Colorado, Boulder, Colorado, U.S.A.
<i>July 2003 – June 2008</i>	Associate Professor, Department of Applied Mathematics, University of Colorado, Boulder, Colorado, U.S.A.
<i>Jan. 1998 - June 2003</i>	Assistant Professor, Department of Applied Mathematics, University of Colorado, Boulder, Colorado, U.S.A.
<i>Jan. 1997 – Dec. 1997</i>	Instructor, Department of Applied Mathematics. University of Colorado, Boulder, Colorado, U.S.A.
<i>Oct. 1994 – Sept. 1996</i>	Advanced Study Postdoctoral Fellowship, National Center for Atmospheric Research (NCAR), Colorado, U.S.A.
<i>May 1991 – Sept. 1994</i>	Postdoctoral Research Associate, Joint Institute for Laboratory Institute (JILA), Colorado, U.S.A.

GRADUATE AND POSTDOCTORAL ADVISORS

Professor Michael R. E. Proctor, Fellow of the Royal Society	Department of Applied Mathematics and Theoretical Physics, University of Cambridge, England
Professor James C. McWilliams, National Academy of Sciences	Institute of Geophysics and Planetary Physics and Department of Atmospheric Sciences, University of California at Los Angeles
Professor Juri Toomre,	JILA and Department of Astrophysical and Planetary Sciences, University of Colorado at Boulder

ACADEMIC AWARDS/HONORS

- 1988, J. T. Knight Prize, Department of Applied Mathematics and Theoretical Physics, University of Cambridge, England.
- 1998, Creative Research and Creative Works, Junior Faculty Development Award, University of Colorado at Boulder.
- 2004, Creative Research and Creative Works, Faculty Fellowship Award, University of Colorado at Boulder.
- 2007, 2018, Innovative Seed Grant, University of Colorado at Boulder.
- 2017, Fellow of the American Physical Society, Division of Fluid Dynamics.
- 2020, Kirk Fellowship, Isaac Newton Institute, Cambridge (postponed due to COVID-19, 2022)
- 2021, Principal Lecturer, Geophysical Summer Program, Woods Hole Oceanographic Institute (postponed due to COVID-19 until 2024)

RESEARCH INTERESTS

- Geophysical and Astrophysical Fluid Dynamics
- Turbulent Fluid Convection
- Physical Applied Mathematics
- Computational Fluid Dynamics
- Theory of Mixing and Transport
- Dynamical Systems Theory

PROFESSIONAL ACTIVITIES

<i>Jan. 2024-</i>	Co-organizer, Institute for Pure and Applied Mathematics (IPAM) Jan. 2025 Workshop on “Rotating Turbulence – Interplay and Separability of Bulk and Boundary Dynamics,” Jan. 2025
<i>Jan. 2021 – present</i>	Editorial Board Member, Physical Review Fluids, APS
<i>Jan. 2017 – June 2018</i>	Co-organizer, Lorentz Center, International Center for Scientific Workshops. May 28-June 1. Workshop on “Rotating Convection: Experiments, Simulations and Theory.”
<i>Feb. 2015 – July 2015</i>	Committee of Visitors for External evaluation of the Division of Ocean Sciences, National Science Foundation
<i>Oct. 2014 – 2018</i>	Associate Editor, Nonlinearity. Publisher IOP.
<i>Oct. 2012 – Dec. 2014</i>	Co-organizer, Institute for Pure and Applied Mathematics (IPAM) 14 weeklong Program on “The Mathematics of Turbulence,” Fall 2014 (UCLA), California, U.S.A.
<i>Jan. 2011 – July 2012</i>	Theme-of-the-Year Co-Director, NCAR/IMAGE (Institute for Mathematics Applied to the Geosciences), Boulder, Colorado, U.S.A.
<i>Jan. 2007 – July 2008</i>	Theme-of-the-Year Co-Director, NCAR/IMAGE

PHD Students (14 graduated 1998 – 2024)

- Past - Eric Wright, Matthew Tearle, Paul Mullooney, Neil Martinsen-Burrell, Mark Petersen, Geoffrey Vasil, Benjamin Jamroz, Michael G. Watson, Ian Grooms (Turcotte Award Winner for PhD Dissertation), David Nieves, Meredith Plumley (Turcotte Award Winner for PhD Dissertation), Abe Ellison
- Current –Sara Tro

POSTDOCTORAL RESEARCHERS (7 six mentored 2003 – 2022)

- Michael Sprague, Antonio Rubio, Michael Calkins, Philippe Marti, Benjamin Miquel, Nicholas
- Featherstone, Manjul Sharma (current)