

# CURRICULUM VITAE

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## KEITH A. JULIEN

Department of Applied Mathematics  
Colorado at Boulder  
UCB 526  
Boulder, CO 80309

Phone: (303) 492-5753 University of  
FAX: (303) 492-4066  
E-Mail: [julien@colorado.edu](mailto:julien@colorado.edu)  
URL: <http://amath.colorado.edu/faculty/julien/>

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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.  
1<sup>ST</sup> Class Honors.

## PROFESSIONAL EXPERIENCE

### POSITIONS HELD

<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, Department of Applied Mathematics and Theoretical Physics,  
Fellow of the Royal Society University of Cambridge, England

Professor James C. McWilliams, Institute of Geophysics and Planetary Physics and Department of  
National Academy of Sciences 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, Innovative Seed Grant, University of Colorado at Boulder.
- 2017, Elected Fellow of the American Physical Society, Division of Fluid Dynamics.

### **RESEARCH INTERESTS**

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

### **PROFESSIONAL ACTIVITIES**

<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 – present</i>	Associate Editor, Nonlinearity. Publisher IOP.
<i>Oct. 2012 – Dec. 2014</i>	Co-organizer, Institute for Pure And Applied Mathematics (IPAM) 14 week Long 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 (Institute for Mathematics Applied to the Geosciences), Boulder, Colorado, U.S.A.

### **PROFESSIONAL SOCIETIES MEMBERSHIP**

- American Physical Society (APS), 1991-Present
- Society of Industrial and Applied Mathematics (SIAM), 1996-Present
- American Geophysical Union (AGU), 2008-Present

