

Curriculum Vitae

Sonya Allayne Legg

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EDUCATION

- 1989-1992 **Imperial College, University of London, UK**
Dynamical meteorology and oceanography, PhD.
Thesis title: Open-ocean deep convection: the spreading phase.
Thesis supervisor: John Marshall.
- 1986-1989 **Oxford University, Keble College, UK**
Physics, BA Honours, First Class.

POSITIONS HELD

- Sept 2004 - present **Princeton University, Princeton.**
Research Oceanographer in Program in Atmospheric and Oceanic Sciences.
- May 2001 - Sept 2006 **Woods Hole Oceanographic Institution, Woods Hole.**
Associate Scientist
Awarded tenure Jan 2005.
- June 2003 - Sept 2003 **NOAA-GFDL and Princeton University, Princeton**
Visiting Fellow
- Sept 1997 - May 2001 **Woods Hole Oceanographic Institution, Woods Hole.**
Assistant Scientist
- Feb 1997 - Sept 1997 **University of California Los Angeles, Los Angeles, USA.**
Assistant Researcher in Inst. for Geophysics and Planetary Phys.
- Feb 1995 - Feb 1997 **Universities Corporation for Atmospheric Research, Boulder, USA**
NOAA Climate and Global Change program postdoctoral fellow.
(host institution: University of California Los Angeles)
- Feb 1993 - Jan 1995 **University of Colorado, Boulder, USA.**
Postdoctoral Research Associate
in Joint Institute for Laboratory Astrophysics.
- Feb 1993 - Jan 1995 **National Center for Atmospheric Research, Boulder, USA.**
Visiting postdoctoral scientist
- Sep 1991 - Oct 1992 **Massachusetts Institute of Technology, Cambridge, USA.**
Research Fellow
- Oct 1990 - Jun 1991 **Imperial College, London, UK.**
Student laboratory teaching assistant

Jul - Sep 1989 **Ecole Polytechnique Federal de Lausanne,**
Lausanne, Switzerland. *Student assistant*

1986 - 1987 **Royal Aerospace Establishment,** Farnborough, UK.
Student Scientist

FELLOWSHIPS AND AWARDS

2003 **NOAA-GFDL/Princeton University** Visiting Fellowship

1995-1997 **National Oceanic and Atmospheric Administration,** USA,
post-doctoral fellowship in Climate and Global Change

1989-1992 **Natural Environment Research Council,** UK,
studentship.

1986-1989 **Ministry of Defense,** UK,
student sponsorship.

1986-1989 **Keble College,** Oxford University, UK,
Open Scholarship.

TEACHING EXPERIENCE

- 2007 - present: Thesis committee member for 2 students in Atmosphere and Ocean Sciences program, Princeton University.
- 2006 - present: member of Graduate Work Committee, Atmosphere and Ocean Sciences program, Princeton University.
- 2006 - present: Lecturer in Atmosphere and Ocean Sciences program, Princeton University, teaching class 572 in “Atmospheric and Oceanic Wave Dynamics”.
- 2001- 2004: Member of MIT-WHOI Joint program in oceanography ”Joint Committee for Physical Oceanography”, providing oversight and advisory role in graduate program.
- 2000-2004: Thesis committee member for 2 students, chairman of the defense for 2 students’ oral examinations, secondary advisor for 2 students, all in MIT-WHOI joint program in oceanography.
- 2000,2002,2003: Designed and taught new graduate course in Geophysical Turbulence, MIT/WHOI Joint Program in Oceanography.
- 1990-1991: Laboratory demonstrations for physics undergraduates, Imperial College.
- Postdoctoral advisees: James Girton (2002-2004), Ulrike Riemenschneider (2004-present), Lucas Merckelbach (2005-present) (co-advised with David Smeed, NOC, UK)
- Summer Guest Students supervised: 2 Woods Hole undergraduate summer student fellows (1998,2002); University of Girona PhD student (2005)

MEMBERSHIP OF PROFESSIONAL SOCIETIES

American Geophysical Union
European Geophysical Society
American Physical Society

PANELS AND COMMITTEES

- MIT/WHOI Joint Committee for Physical Oceanography, 2000-2004
- NSF review panel 2001
- Universities' Corporation for Atmospheric Research member representative for WHOI 2002-2004
- Coordinating PI for NSF/NOAA funded "Gravity Current Entrainment Climate Process Team", 2003-present.
- Co-convener of scientific sessions at AGU Ocean Sciences and EGS General Assembly
- Facilitator for session on "Key Physical Processes" at CLIVAR workshop on Ocean Component of Climate Models, June 2004.
- Associate member of IAPSO/SCOR working group 121 on Ocean Mixing, 2004-present
- Member of US CLIVAR Process Studies and Model Improvement Panel, 2005-present; co-chair of panel, 2007-present.
- Member of Graduate Work Committee, Atmosphere and Ocean Sciences program, Princeton University, 2006-present.
- Member of Atmosphere and Ocean Sciences program website committee, 2006-2007.