

## Brian Savage

University of Rhode Island  
317 Woodward Hall  
9 East Alumni Ave  
Kingston, RI 02881-2019

Tel. (401) 874-5392  
Fax. (401) 874-2190  
Email: [savage@uri.edu](mailto:savage@uri.edu)

### Professional Preparation

Harry O. Wood Postdoctoral Research Fellow	Geophysics	2004-2006
Department of Terrestrial Magnetism		
Carnegie Institution of Washington		
Ph.D. California Institute of Technology	Geophysics	2004
M.S. California Institute of Technology	Geophysics	2000
B.A. University California, Berkeley	Geophysics	1998

### Appointments

Assistant Professor	Geosciences Department University of Rhode Island	August 2004 – Present
Harry O. Wood Postdoctoral Research Fellow	Department of Terrestrial Magnetism Carnegie Institution of Washington	2004 - 2006
Teaching Assistant	California Institute of Technology	1999 - 2004
Research Assistant	California Institute of Technology	1998 - 2004
Consultant	URS Corporation	2001
Undergraduate Researcher	University California, Berkeley	1995 – 1998
Undergraduate Scholar	Center for High Pressure Research (CHiPR) SUNY Stony Brook	Summer 1996

### Publications:

#### Related Publications:

- Savage, B. and P. G. Silver, Understanding Low Velocity Zones and Melt Reservoirs, 2004 AGU Fall Meeting, San Francisco. 2004.
- Savage B., D. A. Wiens, and J. Tromp, Effects of 3D Velocity and Attenuation in the Tonga-Fiji Subduction Zone, 2005 UNAVCO/IRIS Joint Workshop, 2005
- Savage, B., and D. V. Helmberger, Site response from incident PnL waves, *Bull. Seismo. Soc. Am., Vol. 94, No. 1*, pp. 357-362, February 2004.
- Savage, B., C. Ji, and D. V. Helmberger, Velocity variations in the uppermost mantle beneath the southern Sierra Nevada and Walker Lane, *Jour. Geophys. Res., 108 (B7), ESE 2*, 2003.
- Savage, B., Y. Tan, and D. Helmberger, Regional location and identification using sparse stations, in *23rd Annual DoD/DOE Seismic Research Symposium*, 2001.

#### Significant Publications:

- Savage, B., and D. V. Helmberger, Complex Rayleigh waves resulting from deep sedimentary basins, *Earth. Plane. Sci. Lett., Vol. 218, Issues 1-2*, 30, January 229-239 2004.

- Lohman, R., M. Simons, and B. Savage, Location and mechanism of the little skull mountain earthquake as constrained by satellite radar interferometry and seismic waveform modeling, *Jour. Geophys. Res.*, 107 (B6), ETG 7, 2002.
- Savage, B., and D. V. Helmberger, Kursk explosion, *Bull. Seismo. Soc. Am.*, 91 , 753 759, 2001.
- Helmberger, D., J. Chen, and B. Savage, Adaptive techniques for estimating and locating small events using regional waveform data, in *22nd Annual DoD/DoE Seismic Research Symposium*, pp. 161 169, 2000.
- Dreger, D., and B. Savage, Aftershocks of the 1952 Kern County, California earthquake sequence, *Bull. Seismo. Soc. Am.*, 89, 1084 1108, 1999.

### **Synergistic Activities**

- Pioneering work to combine seismic data and satellite based geodetic data (InSAR) towards the determination of earthquake location and faulting mechanisms
- Implementation of a 3D Attenuation operator in SEM Globe (Spherical 3D seismic wave propagation code), Freely Available and widely used.
- Contributor to Seismic Analysis Code (SAC), Widely used seismological tool.
- Lead developer for pssac2. Interface between seismological data and Generic Mapping Tools (GMT). Used for plotting seismic data as record sections or on maps.
- Organized a multi-disciplinary special session at AGU Fall Meeting 2005 about Subduction
- Co-developed seismological methods course at the Seismological Laboratory, Caltech

### **Collaborators**

<b>Name</b>	<b>Institution</b>	<b>Relation</b>
Behn, M.	Woods Hole Oceanographic Institute	Collaborator
Flesch, L.	Purdue University	Collaborator
Helmberger, D. V.	California Institution of Technology	Graduate Thesis Advisor
James, D. E.	Department of Terrestrial Magnetism Carnegie Institution of Washington	Collaborator
Ji, C.	University of California, Santa Barbara	Collaborator
Kanamori, H.	California Institution of Technology	Collaborator
Kelley, K . A.	Department of Terrestrial Magnetism Carnegie Institution of Washington	Collaborator
Silver, P. G	Department of Terrestrial Magnetism Carnegie Institution of Washington	Collaborator
Solomon, S. A.	Department of Terrestrial Magnetism Carnegie Institution of Washington	Postdoctoral Sponsor
Tromp, J.	California Institution of Technology	Collaborator
Wiens, D. A.	Washington University at St. Louis	Collaborator