# D. Sarah Stamps

Virginia Tech Department of Geosciences Depa		D. Saran Stamps	
August   Blacksburg, VA 24061   http://www.tectonophysics.geos.vt.edu http://www.tectonophysics.geos.vt.edu http://www.tectonophysics.geos.vt.edu http://www.tectonophysics.geos.vt.edu http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/   Appointments	Virginia Tech	Phone:	(+1) 540-231-3651
Blacksburg, VA 24061  APPOINTMENTS  APPOINTMENTS  Assistant Professor, Virginia Tech Assistant Professor, Virginia Tech Assistant Professor, Virginia Tech Assistant Professor, Virginia Tech Assistant Adjunct Professor, Univ. of California, Los Angeles Assistant Adjunct Professor, Univ. of California, Los Angeles NSF Ostdoctoral Fellow, UCLA and MIT Ca013 – 2015 NSF Graduate Research Fellow, Purdue University 2009 – 2013 Graduate Research Assistant, Purdue University of Memphis 2008 – 2009 NSF Undergrad. Research Assistant, The University of Memphis 2008 – 2013 Ph.D. Geophysics and Geodesy Ph.D. Geophysics and Geodesy The University of Memphis B.S. Earth Sciences, minor in mathematics magna cum lauda, honors thesis  FUNDED AND PENDING PROPOSALS (selected) Pending MRI: Developing a near-real-time GNSS-MET network for eastern Africa by enhancing AfricaArray NSF Major Research Instrumentation Program, co-PI  Awarded EarthCube Building Blocks: Collaborative Proposal: An Expanded Implementation of Cloud-Hosted Real-time Data Services for the Geosciences (CHORDS) NSF EarthCube Program, co-PI  July 2016 - present Collaborative Research: Quantifying plume-lithosphere interactions with GNSS geodesy, seismology, and geodynamic modeling NSF GeoPRISMS Program, PI, \$393,047  February 2016 EarthCube Visiting Scientist Fellowship, Implementing CHORDS CI at the Ol Doinyo Lengai Volcano GNSS / GPS Network, National Science Foundation, PI, \$1328  March 2014-present An investigation of plate boundary formation in Madagascar National Geographic Society CRE, PI, \$25,056 http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/  June 2013-present An investigation of continental rift-parallel deformation, PI, NSF Earth Sciences Postdoctoral Research Fellowship, \$170,000  Dec 2011-Apr 2013 Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS Geodesy – Is Madagascar Breaking Apart, PI,	Department of Geosc	riences Fax:	(+1) 540-231-3386
APPOINTMENTS  Assistant Professor, Virginia Tech Assistant Adjunct Professor, Univ. of California, Los Angeles  Assistant Adjunct Professor, Univ. of California, Los Angeles  NSF Postdoctoral Fellow, UCLA and MIT 2013 – 2015  NSF Graduate Research Fellow, Purdue University 2009 – 2013  Graduate Research Assistant, Purdue University 2009 – 2013  Graduate Research Assistant, Purdue University of Memphis  2008 – 2007  EDUCATION  2008 – 2013  Purdue University of Memphis  TN, USA Ph.D. Geophysics and Geodesy  The University of Memphis  B. S. Earth Sciences, minor in mathematics  magna cum lauda, honors thesis  FUNDED AND PENDING PROPOSALS (selected)  Pending  MRI: Developing a near-real-time GNSS-MET network for eastern Africa by enhancing AfricaArray  NSF Major Research Instrumentation Program, co-PI  Awarded  EarthCube Building Blocks: Collaborative Proposal: An Expanded Implementation of Cloud-Hosted Real-time Data Services for the Geosciences (CHORDS)  NSF EarthCube Program, co-PI  July 2016 - present  Collaborative Research: Quantifying plume-lithosphere interactions with GNSS geodesy, seismology, and geodynamic modeling  NSF GeoPRISMS Program, PI, \$393,047  February 2016  EarthCube Visiting Scientist Fellowship, Implementing CHORDS CI at the OI Doinyo Lengai Volcano GNSS / GPS Network, National Science Foundation, PI, \$1328  March 2014-present  An investigation of plate boundary formation in Madagascar  National Geographic Society CRE, PI, \$25,056  http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/  June 2013-present  An investigation of continental rift-parallel deformation, PI, NSF Earth Sciences Postdoctoral Research Fellowship, \$170,000  Dec 2011-Apr 2013  Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS Geodesy - Is Madagascar Breaking Apart, PI,	4044 Derring Hall	Email:	dstamps@vt.edu
Assistant Professor, Virginia Tech Assistant Adjunct Professor, Univ. of California, Los Angeles Assistant, Purdue University NSF Graduate Research Fellow, Purdue University 2009 – 2013 Graduate Research Assistant, Purdue University of Memphis Canduate Research Assistant, The University of Memphis Decophysics and Geodesy  Purdue University Ph.D. Geophysics and Geodesy  Ph.D. Geophysics and Geodesy  The University of Memphis B.S. Earth Sciences, minor in mathematics magna cum lauda, honors thesis  PUNDED AND PENDING PROPOSALS (selected)  Pending MRI: Developing a near-real-time GNSS-MET network for eastern Africa by enhancing AfricaArray NSF Major Research Instrumentation Program, co-PI  Awarded EarthCube Building Blocks: Collaborative Proposal: An Expanded Implementation of Cloud-Hosted Real-time Data Services for the Geosciences (CHORDS) NSF EarthCube Program, co-PI  July 2016 - present Gollaborative Research: Quantifying plume-lithosphere interactions with GNSS geodesy, seismology, and geodynamic modeling NSF GeoPRISMS Program, PI, \$393,047  February 2016 EarthCube Visiting Scientis Fellowship, Implementing CHORDS CI at the OI Doinyo Lengai Volcano GNSS / GPS Network, National Science Foundation, PI, \$1328  March 2014-present An investigation of plate boundary formation in Madagascar National Geographic Society CRE, PI, \$25,056 http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/ MSF Earth Sciences Postdoctoral Research Fellowship, \$170,000  Dec 2011-Apr 2013 Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS Geodesy – Is Madagascar Breaking Apart, PI,	Blacksburg, VA 2406		
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NSF Graduate Research Assistant, Purdue University 2009 – 2013   2008 – 2009     NSF Undergrad. Research Assistant, The University of Memphis 2005 – 2007     PUCATION 2008 – 2013   Purdue University of Memphis   IN, USA Ph.D. Geophysics and Geodesy	Assistant Adjunct Pro	ofessor, Univ. of California, Los Angeles	2014 – present
Graduate Research Assistant, Purdue University NSF Undergrad. Research Assistant, The University of Memphis  2005 – 2007  EDUCATION 2008 – 2013 Purdue University Ph.D. Geophysics and Geodesy 2004 – 2007  The University of Memphis B.S. Earth Sciences, minor in mathematics magna cum lauda, honors thesis  FUNDED AND PENDING PROPOSALS (selected) Pending MRI: Developing a near-real-time GNSS-MET network for eastern Africa by enhancing AfricaArray NSF Major Research Instrumentation Program, co-PI  Awarded EarthCube Building Blocks: Collaborative Proposal: An Expanded Implementation of Cloud-Hosted Real-time Data Services for the Geosciences (CHORDS) NSF EarthCube Program, co-PI  July 2016 - present GNSS geodesy, seismology, and geodynamic modeling NSF GeoPRISMS Program, PI, \$393,047  February 2016 EarthCube Visiting Scientist Fellowship, Implementing CHORDS CI at the OI Doinyo Lengai Volcano GNSS / GPS Network, National Science Foundation, PI, \$1328  March 2014-present An investigation of plate boundary formation in Madagascar National Geographic Society CRE, PI, \$25,056 http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/ NSF Earth Sciences Postdoctoral Research Fellowship, \$170,000  Dec 2011-Apr 2013 Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS Geodesy – Is Madagascar Breaking Apart, PI,	NSF Postdoctoral Fel	llow, UCLA and MIT 2013 – 2015	
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GNSS geodesy, seismology, and geodynamic modeling NSF GeoPRISMS Program, PI, \$393,047  February 2016 EarthCube Visiting Scientist Fellowship, Implementing CHORDS CI at the Ol Doinyo Lengai Volcano GNSS / GPS Network, National Science Foundation, PI, \$1328  March 2014-present An investigation of plate boundary formation in Madagascar National Geographic Society CRE, PI, \$25,056 http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/  June 2013-present An investigation of continental rift-parallel deformation, PI, NSF Earth Sciences Postdoctoral Research Fellowship, \$170,000  Dec 2011-Apr 2013 Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS Geodesy – Is Madagascar Breaking Apart, PI,		NSF EarthCube Program, co-PI	
February 2016 EarthCube Visiting Scientist Fellowship, Implementing CHORDS CI at the Ol Doinyo Lengai Volcano GNSS / GPS Network, National Science Foundation, PI, \$1328  March 2014-present An investigation of plate boundary formation in Madagascar National Geographic Society CRE, PI, \$25,056 http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/  June 2013-present An investigation of continental rift-parallel deformation, PI, NSF Earth Sciences Postdoctoral Research Fellowship, \$170,000  Dec 2011-Apr 2013 Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS Geodesy – Is Madagascar Breaking Apart, PI,	July 2016 - present	Collaborative Research: Quantifying plume-lithosphere	e interactions with
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National Geographic Society CRE, PI, \$25,056 <a href="http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/">http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/</a> June 2013-present An investigation of continental rift-parallel deformation, PI, NSF Earth Sciences Postdoctoral Research Fellowship, \$170,000  Dec 2011-Apr 2013 Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS Geodesy – Is Madagascar Breaking Apart, PI,		Foundation, PI, \$1328	
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Dec 2011-Apr 2013 Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS Geodesy – Is Madagascar Breaking Apart, PI,	June 2013-present	An investigation of continental rift-parallel deformation	n, PI,
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	Dec 2011-Apr 2013	<u>.</u>	<del>-</del>
National Geographic Society Waitt Program, \$15,000			
		National Geographic Society Waitt Program, \$15,000	

June 2009–May 2013 Testing rifting models in the East African Rift, PI, **NSF Graduate Research Fellowship,** \$100,000

## **REFERRED PUBLICATIONS**

- 1. Ji, K.H., **Stamps, D.S**.\*, Geirsson, H., Mashagiro, N., Syauswa, M., Kafudu, B., Subira, J. and d'Oreye, N., (2016), Deep magma accumulation at Nyamulagira volcano in 2011 detected by GNSS observations, Special Pub. on Kivu Rift, Journal of African Earth Sciences. \*corresponding author.
- 2. Rui, X. and **Stamps, D.S.**, (2016), Present-day kinematics of the eastern Tibetan Plateau and Sichuan Basin: Implications for lower crustal rheology. Journal of Geophysical Research: Solid Earth.
- 3. Sachau, T., D. Koehn, **D.S. Stamps**, M. Lindenfield, (2015), Fault kinematics and stress fields in the Rwenzori Mountains, Uganda, *Int. Jrl. Earth Sci.*, doi: 10.1007/s00531-015-1162-6
- 4. **Stamps, D.S.**, G. Iaffaldano, E. Calais (2015), Role of mantle flow in Nubia-Somalia divergence, *Geophy. Res. Lett.*, doi: 10.1002/2014GL062515.
- 5. **Stamps, D.S.**, L.M. Flesch, E. Calais, A. Ghosh (2014), Current kinematics and dynamics of Africa and the East African Rift, *Jrl. Geophy. Res.*, doi: 10.1002/2013JB010717.
- 6. Saria, E., E. Calais, **D.S. Stamps**, D. Delvaux, C.J.H. Hartnady (2014), Present-day kinematics of the East African Rift, *Jrl. Geophy. Res.*, doi: 10.1002/2013JB010901.
- 7. Fernandes, R., Miranda, J. M., Delvaux, D., **D.S., Stamps**, E. Saria (2013), Re-evaluation of the kinematics of Victoria Plate using continuous GNSS data, *Geophys J Int.*, doi: 10.1093/gji/ggs071.
- 8. **Stamps, D.S.**, L.M. Flesch, E.Calais (2010), Lithospheric buoyancy stresses in Africa from a thin sheet approach, *Int. Jrl. Earth Sci.*, *Special Publication on Continents in Extension*, 99(7), doi: 10.1007/s00531-010-0533-2.
- 9. Calais, E., N. d'Oreye, J. Alberic, A. Deschamps, D. Delvaux, J. Deverchere, C. Ebinger, R.W. Ferdinand, F. Kervyn, A.S. Macheyeki, A. Oyen, J. Perror, E. Saria, B. Smets, **D.S. Stamps**, C. Wauthier, (2008) Aseismic strain accommodation by slow slip and dyking in a youthful continental rift, East Africa, *Nature*, doi:10.1038/nature07478.
- 10. **Stamps, D.S.**, E. Calais, E. Saria, C. Hartnady, J.-M. Nocquet, C.J. Ebinger, and R. Fernandes (2008), A kinematic model for the East African Rift, Geophy. Res. Lett., 35, L05304, doi:10.1029/2007GL0327 81.
- 11. Smalley, R. Jr., I.W. Dalziel, M.G. Bevis, E. Kendrick, **D.S. Stamps**, E.C. King, F.W. Taylor, E. Lauria, A. Zakrajsek, and H. Parra (2007), Scotia arc kinematics from GPS geodesy, Geophys. Res. Lett., 34, L21308, doi:10.1029/2007GL031699.
- 12. **Stamps, D.S.**, R. Smalley, Jr. (2006), Strings and Things for Locating Earthquakes, *Seismo. Res. Ltrs*, Vol. 77, No. 6, pp.677-683, doi:10.1785/gssrl.77.6.677.

## **DATA PRODUCTS**

- 1. **Stamps, D.S.** and G. Rambolamanana, (2015). Madagascar 2014, UNAVCO, GPS Data Set, doi:10.7283/T5WS8RKK
- 2. **Stamps, D.S.** and F. Tugume, (2015). Uganda 2014, UNAVCO, GPS Data Set, doi:10.7283/T5SN077
- 3. Stamps, D.S. and E. Saria (2015), Tanzania 2014, UNAVCO, GPS Data Set, doi:10.7283/T5XD0ZZG
- 4. **Stamps D.S.**, (2012), Madagascar Uganda 2012: Madagascar 2012, UNAVCO, GPS Data Set, doi:10.7283/T5HX19S6
- 5. Calais E., Stamps D.S., (2012), Madagascar Uganda 2012: Uganda 2012, UNAVCO, GPS Data Set, doi:10.7283/T5HX19S6
- 6. Stamps, D.S., (2010), Tanzania Madagascar Uganda 2010: Madagascar, UNAVCO, GPS Data Set, doi:10.7283/T5000052

### **UNREFERRED PUBLICATIONS**

- 1. TECHNICAL REPORT: **Stamps, D.S.**, E. Saria, C. Kreemer, (2015), Geodetic Strain Rate Model for Sub-Saharan Africa, doi: 10.13117/GEM.REG.TR2015.03, Report number: GEM.Project.Report.2015-03.V1.0.0,
- 2. NSF EARTHCUBE SCIENCE COMMITTEE REPORT: Aronson E, Bristol S, Burgess AB, Chandrasekar V, Close H, van Eyken T, Ferrini V, Gomez B, Kinkade D, Kelbert A, Martin RL, Ritterbush K, Rubin K, Schmittner A, Slota S, **Stamps DS**, Stocks K, Tzeng MW, Wiebe P, Wood-Charlson E (2015): Geoscience 2020: Cyberinfrastructure to reveal the past, comprehend the present, and envision the future, EarthCube Working Paper ECWP-2015-1, dx.doi.org/10.7269/P3MG7MDZ
- 3. WHITE PAPER: Douglas B., R, Bennett, **D.S. Stamps**, N. Niemi, B. Wang, E. Nissan, M, Oskin, A. Duvall, M.Hamburger, (2015), Current directions of field science education with respect to geodetic technologies, White Paper for Workshop on Future Seismic and Geodetic Facility Needs in the Geosciences, May 4-6, 2015.
- 4. WHITE PAPER: **Stamps D.S.** et al. (2013). An investigation of rift-parallel surface deformation along the East African Rift System, GeoPRISMS Planning Workshop for East African Rift, Morristown, NJ, 10/25/13-10/27/13.
- 5. WHITE PAPER: **Stamps D.S**. et al. (2013). An investigation of plate boundary formation in Madagascar, GeoPRISMS Planning Workshop for East African Rift, Morristown, NJ, 10/25/13-10/27/13.

## **PRESS**

- 1. PRESS: Geosciences team to place GPS sensors around Tanzanian volcano in effort to predict eruptions (2016), Virginia Tech News, S. Mackey, https://vtnews.vt.edu/articles/2016/06/science-volvcanotanzaniastudy.html
- PRESS: Rifting in Eastern Africa: Geodetic data deciphers spreading forces (2014) UNAVCO Geodetic Science Snapshot, written by L. Rowen, <a href="http://www.unavco.org/science/snapshots/solid-earth/2014/stamps.html">http://www.unavco.org/science/snapshots/solid-earth/2014/stamps.html</a>
- 3. PRESS: Plate tectonics in the East African Rift (2008) UNAVCO Highlight, https://www.unavco.org/highlights/2008/stamps.html

### **TEACHING EXPERIENCE**

# Spring 2016 Virginia Tech

Blacksburg, VA

**Assistant Professor** 

**Tectonics** 

- Instruct graduate and undergraduate students in modern tectonic theory and the use of Coulomb 3.4
- Mixed traditional lecturing and flipped classroom pedagogy

## Fall 2015 **Virginia Tech**

Blacksburg, VA

**Assistant Professor** 

Geodynamics and ASPECT

• Instruct students in geodynamics modeling with the mantle convection and lithospheric dynamics code ASPECT

### Winter 2015 University of California, Los Angeles

CA, USA

Assistant Adjunct Professor

Geologic Maps

- Instructed 31 upper-level undergraduates in geologic mapping
- Implemented a range of instructional techniques including lecturing, group laboratory exercises, and 2 field mapping trips to Rainbow Basin

## July 2014 University of Antananarivo

Madagascar

Lead Instructor and Developer

Introduction to GPS Geodesy and High Precision Observations

http://www.unavco.org/education/advancing-geodetic-skills/short-courses/2014/gps/gps.html

http://www.unavco.org/education/advancing-geodetic-skins/short-courses/2014/gps/gps.htm

## March 2013 University of Bukavu

Dem. Rep. of Congo

Instructor and Developer

GPS Geodesy and Applications in Geodynamics Short-Course

Sum 2010 – **Purdue University** IN, USA Spring 2012 Teaching Assistant, Laboratory Instructor, or Guest Lecturer Physical Geology, Geosciences in the Cinema, Dynamics Earth Fall 2013 **Boston University** MA, USA **Guest Lecturer Introductory Geophysics** June 2013 **University of Antananarivo** Madagascar Instructor and Developer GPS Training Program Spr 2007 -**Center for Earthquake Research and Information** TN, USA Fall 2007 Student Teacher Spring 2005 The University of Memphis TN, USA Instructor Environmental Geology Laboratory

## **STUDENTS**

### Current

Tahiry Rajaonarison, PhD student, August 2015 - present, Virginia Tech Joshua R. Jones, Masters student, January 2016 - present, Virginia Tech Jessica Pentecost, Masters student, incoming August 2016, Virginia Tech

#### **Previous**

Greg Jesmok, undergraduate researcher, 2016, University of California, Los Angeles Raul Carrillo, undergraduate researcher, 2016, University of California, Los Angeles Herimitsinjo Nia, Masters II, November 2015, University of Antananarivo, Madagascar Tahiry Rajaonarison, Masters II, August 2013, University of Antananarivo, Madagascar

## DEPARTMENTAL SEMINARS AND INVITED PRESENTATIONS (selected)

June 2016	Ardhi University, Tanzania, Departmental Special Seminar Crustal Deformation and Volcano-Tectonic Interactions in East Africa
Mar 2016	UNAVCO Science Workshop (opening talk) Implications of Lithosphere-Asthenosphere Interactions on Rift-Parallel Deformation
Feb 2016	National Geographic Headquarters, Washington, D.C. <i>Is Madagascar Breaking Apart?</i>

Dec 2015	American Geophysical Union Fall Meeting, San Francisco, CA Continental Deformation in Madagascar from GNSS Observations
Mar 2015	Virginia Tech, Blacksburg, VA, Departmental Colloquium Continental Rift-Parallel Surface Motions in Africa
Jan 2015	Virginia Tech, Blacksburg, VA Crustal Deformation Studies with GPS and Numerical Modeling: examples from East Africa
Oct 2014	University of California, Los Angeles, CA Departmental Colloquium Neotectonics of the East African Rift System
Mar 2014	UNAVCO Science Workshop, Denver, CO Haiti 2010 Education and Community Engagement from a Young Investigator's Perspective
Jan 2014	Harvard University, Cambridge, MA  Evidence of Rift-Parallel Deformation Along the Western Branch and Main  Ethiopian Rift?
Dec 2013	University of California, Los Angeles, CA  Evidence of Rift-Parallel Deformation Along the Western Branch and Main  Ethiopian Rift?
Nov 2013	Massachusetts Institute of Technology, Cambridge, MA Rift-Parallel Deformation Along the East African Rift
Nov 2013	Active Volcanism and Continental Rifting Conference, Rwanda <b>Keynote:</b> Kinematics and Dynamics of the East African Rift
Aug 2013	deal.ii 4 <sup>th</sup> Workshop, Texas A&M, College Station, TX Kinematics and Dynamics of the East African Rift: system-wide results and research outlook for rift-scale processes
Oct 2012	NSF GeoPRISMS East African Rift Planning Workshop, New Jersey Role of Mantle Flow on Rifting in East Africa
June 2012	Queen Elizabeth National Park 2012 Research Symposium, Uganda GPS Experiments in the East African RifT
Nov 2011	University of Memphis – Memphis, TN The East African Rift: kinematics and dynamics
Aug 2010	University of Antananarivo, Madagascar Kinematics of the Lwandle-Somalia Plate Boundary from GPS Geodesy: Is Madagascar Breaking Apart?

Oct 2010

IGCP 565 Workshop on separating hydrologic and tectonic signals in geodetic data: GPS Experiments in the East African Rift – Reno, NV

GPS Experiments in the East African Rift

Aug 2009

Advanced Workshop on Monitoring, Evaluating, and Communicating Seismic and Volcanic Hazards in East Africa

Present-day Strain Rates and Large-scale Dynamics of the East African Rift

Apr 2009 European Geosciences Union – Vienna, Austria

Present-day Strain Rates and Dynamics of the East African Rift

## **COLLABORATORS AND OTHER AFFILIATIONS**

**International Collaborators:** Kang-Hyeun Ji (Korea Institute for Geosciences and Mineral Resources), Xu Rui (Sichuan Earthquake Bureau), Nicolas D'Oreye (European Center for Geodynamics and Seismology, Luxembourg), Daniel Koehn (University of Glasgow, Scotland), Elifuraha Saria (Ardhi University, Tanzania), Gerard Rambolamanana (University of Antananarivo, Madagascar), Fred Tugume (Geological Survey and Mines, Department Ministry of Natural Resources of Uganda), Gladys Kianji (University of Nairobi)

**U.S. Collaborators:** Mike Daniels (UCAR), Dave Mencin (UNAVCO), Andy Nyblade (Penn State), Brad Hager (MIT), Wolfgang Bangerth (Texas A&M)

**Graduate Advisor:** Eric Calais, Ecole Normale Supérieure (formerly Purdue University)

Major Postdoctoral Advisor: Brad Hager, Massachusetts Institute of Technology

## **SERVICE**

UNAVCO Education and Community Engagement Committee
American Geophysical Union Fall Meeting Session
EarthCube Science Standing Committee, +3 working groups
Publication Reviewer
NSF Proposal Reviewer
American Geophysical Union Geodesy Executive Committee

Member, 2009-2012, present
Co-chair, 2014
2014-present
2010-present
Wember, 2008-2010

## **COMPUTATIONAL SKILLS**

GAMIT-GLOBK GMT Matlab (T)DEFNODE LaTeX
SHELLS (Kong and Bird, 1995) spline codes in Fortran (Holt and Haines, 1993; Flesch et al., 2001)
ASPECT AWK Coulomb 3.3 Basics: C++, Fortran, deal.ii, Pylith

### PROFESSIONAL SOCIETY MEMBERSHIPS

American Geophysical Union Geological Society of America Seismological Society of America Sigma Xi – The Scientific Research Society