D. Sarah Stamps

D. Saran Stamps				
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4044 Derring Hall		Email:	dstamps@vt.edu	
Blacksburg, VA 2406			geodesy.geos.vt.edu	
	<u>Nai</u>	<u> 11011a1 C</u>	Geographic Explorer	
APPOINTMENTS				
	Assistant Professor, Virginia Tech		2015 – present	
NSF Postdoctoral Fellow, UCLA and MIT		2013 – 2015		
	ch Fellow, Graduate Research Assistant, Purdue arch Assistant, The University of Memphis	Univer	Sity $2008 - 2013$ 2007	
_	arch Assistant, The University of Memphis		2007	
EDUCATION 2008 – 2013	Dundus University		INI TICA	
2008 – 2013	Purdue University Ph.D. Geophysics and Geodesy		IN, USA	
2004 - 2007	The University of Memphis		TN, USA	
	B.S. Earth Sciences, minor in mathemati	CS		
	magna cum laude, honors thesis			
AWARDS				
-	nfrastructure for Geodynamics Distinguished Lec	cturer	2017-present	
	munity Service and Leadership Award		2017	
NSF Postdoctoral Res NSF Graduate Resear	±		2013 2009	
NSI Graduate Resear	en i enowship		2007	
FUNDED PROPOSA	<u>ALS</u>			
Mar 2018 – present				
	Comprehensive Analysis of Land Motion Effect	is on M	larsh Migration in	
0 . 2010	The Chesapeake Bay, co-PI, USGS , \$150,000	_		
Oct 2018 – present	Measuring Vertical Land Motions in the Hampto		· •	
	Towards Investigating Land Subsidence Process VT Coastal Hazards Seed Grant, PI, \$5000	ses in u	ne Chesapeake Bay	
Oat 2017 May 2019	Collecting Observations for Data Analysis and I	Enaadii	ac in the	
Oct. 2017 - May 2016	Geosciences (CODE-GEO)	MCOun	ig in the	
	Virginia Tech ICTAS, PI, \$10,000			
Sept. 2017- present	Brokered Alignment of Long-Tail Observations	(BAL	ГО)	
	NSF EarthCube Integration , PI, \$1.4 M total,		,	
Oct. 2016 - present	Collaborative Proposal: An Expanded Implemen	ntation	of Cloud-Hosted	
-	Real-time Data Services for the Geosciences (Cl	HORD	S)	
	NSF EarthCube Program, co-PI, \$87,815			
July 2016 - present	Collaborative Research: Quantifying plume-lithe			
	GNSS geodesy, seismology, and geodynamic m			
A 2017 N 2010	NSF GeoPRISMS Program, PI, \$393,047 (+R			
Apr. 2017-Nov. 2018 Impending Volcano Eruption Response in Northern Tanzania				
	National Geographic Society Rapid Grant, Pl	1, \$18,5	000	

- July 2016–June 2017 Geodetic and Geochemical Constraints on the Hypothesized Lwandle-Somalia Plate Boundary in Northern Madagascar National Geographic Society Waitt Program, co-PI, \$14,185
- Mar 2014-Mar 2015 An investigation of plate boundary formation in Madagascar

 National Geographic Society Committee for Research and

 Exploration, PI, \$25,056

 http://www.nationalgeographic.com/explorers/bios/d-sarah-stamps/
- June 2013-Aug 2015 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, **National Geographic** Society Waitt Program, \$15,000
- June 2009–May 2013 Testing rifting models in the East African Rift, PI, **NSF Earth Sciences Graduate Research Fellowship**, \$100,000

PUBLICATIONS UNDER IN REVISIONS OR ACCEPTED

**student author *Corresponding Author

- **Njinju A. E., E. Atekwana, **D.S. Stamps**, M.G. Abdelsalam, E.A. Atekwana, K.L. Mickus, V.N. Nyalugwe, <u>in revisions</u>, Lithospheric Structure of the Malawi Rift: Implications for Rifting Processes in Magma Poor Rift Systems, *G-Cubed*.
- Rui, X. and **D. S. Stamps**, <u>in revisions</u>, Strain Accommodation in the Liangshan Mountain area, Southeastern Margin of the Tibetan Plateau, *Journal of Geophysical Research*.

REFEREED PUBLICATIONS (18; H-Index 11; !10 index 12; Citations 769)

**student author *Corresponding Author

- 1. **Njinju A. E., F. Kolawole, E.A. Atekwana, **D.S. Stamps**, E.A. Atekwana, M.G. Abdelsalam, K.L. Mickus, A.B. Katumwehe, and V.N. Nyalugwe, 2019, Terrestrial heat flow in the Malawi Rifted Zone, East Africa: Implications for tectono-thermal inheritance in continental rift basins, Journal of Volcanology and Geothermal Research, doi.org/10.1016/j.jvolgeores.2019.07.023
- 2. **J.R. Jones, **D.S. Stamps**, C. Wauthier, J. Biggs, E. Saria, 2019, Evidence for slip on a border fault triggered by magmatic processes in an immature continental rift, 2019, *G-Cubed*. doi: 10.1029/2018GC008165
- 3. Rui, X., **D.S. Stamps**, A Geodetic Strain Rate and Tectonic Velocity Model for mainland China Based on GNSS Data Spanning 1996-2017, 2019, *G-Cubed*, doi: doi.org/10.1029/2018GC007806
- 4. **Stamps, D.S.**, E. Saria, C. Kreemer, 2018, Sub-Saharan Africa Geodetic Strain Rate Model 1.0, *Scientific Reports*.

- 5. F. Kolawole, E. A. Atekwana, **S. Malloy, **D. S. Stamps**, R. Grandin, M. G. Abdelsalam1, K. Leseane and E. M. Shemang, Aeromagnetic and gravity data, and Differential Interferometric Synthetic Aperture Radar (DInSAR) analysis reveal the causative fault of the April 3, 2017 Mw 6.5 Moijabana, Botswana Earthquake, 2017, *Geophysical Research Letters*.
- 6. Ji, K.H., *Stamps, D.S., Geirsson, H., Mashagiro, N., Syauswa, M., Kafudu, B., Subira, J. and d'Oreye, N., 2017, Deep magma accumulation at Nyamulagira volcano in 2011 detected by GNSS observations, Special Pub. on Kivu Rift, *Journal of African Earth Sciences*. *corresponding author.
- 7. Muirhead, J.D., S.A. Kattenhorn, H. Lee, S. Mana, B.D. Turrin, T.P. Fischer, G. Kianji, E. Dindi, and **D.S. Stamps**, 2016, Evolution of upper crustal faulting assisted by magmatic volatile release during early-stage continental rift development in the East African Rift: *Geosphere*, v. 12, doi:10.1130/GES01375.1.
- 8. Rui, X. and **D.S. Stamps**, 2016, Present-day kinematics of the eastern Tibetan Plateau and Sichuan Basin: Implications for lower crustal rheology. *Journal of Geophysical Research: Solid Earth.*
- 9. Saschau, 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
- 10. **Stamps, D.S.**, G. Iaffaldano, E. Calais 2015, Role of mantle flow in Nubia-Somalia divergence, *Geophy. Res. Lett.*, doi: 10.1002/2014GL062515.
- 11. **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.
- 12. 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.
- 13. 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.
- 14. **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.
- 15. 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.
- 16. **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.

- 17. 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.
- 18. **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 AND SOFTWARE (18; 16 with doi's; 14 open-access GPS Data Sets at UNAVCO; 2 NSF ASPECT CIG; 2 NSF EarthCube cyberinfrastructure)

- 1. **Stamps, D.S.,** Saria, Elifuraha, Hyeun Ji, Kang, **Jones, J. Robert, Ntambila, Daud, Daniels, Mike and Mencin, Dave, 2017a, TZVOLCANO: OLO6-OLO6 OLO TZA2017 P.S., UNAVCO, GPS Data Set, doi:10.7283/T51V5CR2
- 2. **Stamps, D.S.,** Saria, Elifuraha, Hyeun Ji, Kang, **Jones, J. Robert, Ntambila, Daud, Daniels, Mike and Mencin, Dave, 2017b, TZVOLCANO: OLO7-OLO7_OLO_TZA2017 P.S., UNAVCO, GPS Data Set, doi:10.7283/T5F47MW0
- 3. **Stamps, D.S.**, Saria, Elifuraha, Hyeun Ji, Kang, **Jones, J. Robert, Ntambila, Daud, Daniels, Mike and Mencin, Dave, 2017c, TZVOLCANO: OLO8-OLO8_OLO_TZA2017 P.S., UNAVCO, GPS Data Set, doi:10.7283/T59C6W64
- 4. **Stamps, D.S.,** Saria, Elifuraha, Hyeun Ji, Kang, **Jones, J. Robert, Ntambila, Daud, Daniels, Mike and Mencin, Dave, 2016a, TZVOLCANO: OLO1-OLO1_OLO_TZA2016 P.S., UNAVCO, GPS Data Set, doi:10.7283/T5TB15P4
- 5. **Stamps, D.S.,** Saria, Elifuraha, Hyeun Ji, Kang, ***Jones, J. Robert,* Ntambila, Daud, Daniels, Mike and Mencin, Dave, 2016b, TZVOLCANO: OLO2-OLO2_OLO_TZA2016 P.S., UNAVCO, GPS Data Set, doi:10.7283/T5JS9P7J
- Stamps, D.S., Saria, Elifuraha, Hyeun Ji, Kang, **Jones, J. Robert, Ntambila, Daud, Daniels, Mike and Mencin, Dave, 2016c, TZVOLCANO: OLO3-OLO3 OLO TZA2016 P.S., UNAVCO, GPS Data Set, doi:10.7283/T5Z31XFX
- 7. **Stamps, D.S.**, Saria, Elifuraha, Hyeun Ji, Kang, **Jones, J. Robert, Ntambila, Daud, Daniels, Mike and Mencin, Dave, 2016d, TZVOLCANO: OLO4-OLO4 OLO TZA2016 P.S., UNAVCO, GPS Data Set, doi:10.7283/T55M64H7
- 8. **Stamps, D.S.,** Saria, Elifuraha, Hyeun Ji, Kang, **Jones, J. Robert, Ntambila, Daud, Daniels, Mike and Mencin, Dave, 2016e, TZVOLCANO: OLO5-OLO5_OLO_TZA2016 P.S., UNAVCO, GPS Data Set, doi:10.7283/T5PK0DXZ
- 9. Daniels, M. D., Kerkez, B., Chandrasekar, V., Graves, S., **Stamps, D. S.,** Martin, C., Dye, M., Gooch, R., Bartos, M., **Jones, J., Keiser, K., 2016, Cloud-Hosted Real-time Data Services for the Geosciences (CHORDS) software (Version 0.9). UCAR/NCAR Earth Observing Laboratory. https://doi.org/10.5065/d6v1236q
- 10. **Stamps, D.S.**, Saria E., Ji K-H, ***Jones J.*, Ntambila D., 2016f, TZVOLCANO real-time data stream, UNAVCO, GNSS/GPS Data Set, doi: http://dx.doi.org/10.5065/D6P849BM (first of its kind for GNSS/GPS data)
- 11. **Rajaonarison, T. and **D.S. Stamps**, 2016, Adiabatic Boundary, CIG ASPECT plugin
- 12. **Rajaonarison, 2016, Cartesian to WGS84 transformation utility, CIG ASPECT plugin
- 13. **Stamps, D.S.** and G. Rambolamanana, 2015, Madagascar 2014, UNAVCO, GPS Data Set, doi:10.7283/T5WS8RKK

- 14. **Stamps, D.S.** and F. Tugume, 2015, Uganda 2014, UNAVCO, GPS Data Set, doi:10.7283/T5SN077
- 15. **Stamps, D.S.** and E. Saria (2015), Tanzania 2014, UNAVCO, GPS Data Set, doi:10.7283/T5XD0ZZG
- 16. **Stamps D.S.** and G. Rambolamanana, (2012), Madagascar Uganda 2012: Madagascar 2012, UNAVCO, GPS Data Set, doi:10.7283/T5HX19S6
- 17. **Stamps D.S.** and D. Koehn, (2012), Madagascar Uganda 2012: Uganda 2012, UNAVCO, GPS Data Set, doi:10.7283/T5HX19S6
- 18. **Stamps, D.S.** and G. Rambolamanana, (2010), Tanzania Madagascar Uganda 2010: Madagascar, UNAVCO, GPS Data Set, doi:10.7283/T5000052

UNREFEREED PUBLICATIONS

- 1. NSF EARTHCUBE REPORT: Ouida Meyer, **D. Sarah Stamps**, Lynne Schreiber, and the EarthCube Science Committee, 2018, EarthCube Resources for GEO-CI Workshops
- 2. NSF EARTHCUBE REPORT: David Arctur, Scott Peckham, **D. Sarah Stamps**, Bob Arko, Janet Fredericks, 2016, AIP Tiger Team Response to the Xenity Architecture Implementation Plan
- 3. 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
- 4. 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.
- 5. 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.
- 6. 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. UNAVCO Highlight: CHORDS Provides Next Generation Infrastructure for Real-time Geoscience Data Services, March 9, 2019
- Spring Virginia Tech Science Magazine for CODE-GEO Spring Break trip. S. Mackay, 2018

- 3. National Geographic "Earth and Space Science" by Mark Hendrix High School Textbook featurette, to be released in 2019
- 4. National Geographic Explorer consultant for "Absolute Expert: Rocks and Minerals" by Ruth Strother, National Geographic Kids Book
- 5. Invited AGU Policy Twitter featured Tweet (2018)
- 6. Geoscience's D. Sarah Stamps to spearhead \$1.4 million NSF grant to build key cyberinfrastructure project (2017), Virginia Tech News, Jessi Rogers, https://vtnews.vt.edu/articles/2017/10/Science-Stamps balto funding.html
- 7. National Geographic Story (2017) 'Mountain of God' Volcano Preparing to Erupt, Micheal Greshko, http://news.nationalgeographic.com/2017/07/tanzania-volcano-eruption-ancient-humans-science/
- 8. 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
- 9. Rifting in Eastern Africa: Geodetic data deciphers spreading forces (2014) UNAVCO Geodetic Science Snapshot, written by L. Rowen, http://www.unavco.org/science/snapshots/solid-earth/2014/stamps.html
- 10. Plate tectonics in the East African Rift (2008) UNAVCO Highlight, https://www.unavco.org/highlights/2008/stamps.html

TEACHING EXPERIENCE

Spring 2019 Spring 2018 Spring 2016	Virginia Tech Assistant Professor Tectonics/Advanced Tectonics	Blacksburg, VA
Fall 2019 Spring 2019 Fall 17-18	Virginia Tech Assistant Professor Hazards in the Geosciences: Geosciences in the Cin	Blacksburg, VA
Fall 2018	Virginia Tech Geodesy in the Earth Sciences	Blacksburg, VA
June 2018	AfricaArray Annual Meeting University of Witswatersand Instructor and developer International Scientific Collaboration and AfricaArr	Johannesburg, S. Africa
June 2017	AfricaArray Annual Meeting University of Witswatersand Instructor and developer Experiment Design and Implementation with GNSS	Johannesburg, S. Africa

Spring 2017, Virginia Tech Blacksburg, VA Assistant Professor, co-led by J. Spotila **Active Tectonics Seminar** Fall 2016 Virginia Tech Blacksburg, VA **Assistant Professor** Tectonic Geodesy (now Geodesy in the Earth Sciences) Fall 2015 Virginia Tech Blacksburg, VA Fall 2017 Assistant Professor, co-taught with S. King in 2015 Geodynamics and ASPECT Winter 2015 University of California, Los Angeles CA, USA Assistant Adjunct Professor Geologic Maps July 2014 University of Antananarivo Madagascar Lead Instructor and Developer (international teaching staff) *Introduction to GPS Geodesy and High Precision Observations* http://www.unavco.org/education/advancing-geodetic-skills/short-courses/2014/gps/gps.html 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 AND RESEARCHERS

Tahiry Rajaonarison, PhD student, August 2015 - present, Virginia Tech Joshua R. Jones, PhD student, January 2016 - present, Virginia Tech Emmanuel Njinju, PhD student, August 2017 - present, Virginia Tech Ryan Roane, Undergraduate researcher, January 2018 – present, Virginia Tech Roberto Gorjon-Andujar, Undergraduate researcher, August 2018 – present, Virginia Tech Israel Mamo, Undergraduate researcher, May 2019 – present, Virginia Tech

Previous

ThaoVy Nguyen, Undergraduate researcher, April 2017 – June 2019, Virginia Tech Sarah Morgan, Undergraduate researcher, January 2018 – December 2018, Virginia Tech Rui Xu, Associate Researcher, 2017-2018, Sichuan Earthquake Bureau, China Jessica Schobelock, Masters student, now Data Scientist at Capitol One Sean Malloy, Undergraduate researcher, now Field Engineer at Columbia University Codi Wiersma, Undergraduate researcher, now graduate student at Virginia Tech Jared Guzman, Undergraduate researcher 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

ORAL PRESENTATIONS (selected)

April 2019	The University of Memphis Re-Evaluating the Somalian Plate: an update on East African kinematics
March 2019	Penn State University Re-Evaluating the Somalian Plate: an update on East African kinematics
Nov 2018	University of Delaware Advances in the kinematics of the East African Rift System
Oct 2018	 International Conference on the East African Rift System (Tanzania) A geodetic strain rate model for the East African Rift System The Tanzania Volcano Observatory
Sept 2018	Appalachian State University Advances in the kinematics of the East African Rift System
June 2018	University of Witswatersand, AfricaArray Annual Meeting Is active tectonics on Madagascar consistent with Somalia Plate kinematics?
June 2018	EarthCube All-Hands Meeting Tanzania Volcano Observatory: Implementing Real-Time GNSS Monitoring with the EarthCube Cyberinfrastructure CHORDS
Apr 2018	Hampton University as NSF CIG Distinguished Lecturer Advances in the Kinematics and Dynamics of Africa

Dec 2017	American Geophysical Union Fall Meeting Invited Speaker: <i>Is active tectonics on Madagascar consistent with Somalia Plate kinematics?</i>
July 2017	University of Witswatersand, AfricaArray Annual Meeting Keynote: Advances in the Kinematics and Dynamics of Africa
April 2017	University of Kentucky, Holbrook Lecture Present-day kinematics of the eastern Tibetan Plateau and Sichuan Basin: Implications for lower crustal rheology
January 2017	University of Michigan, The Smith Lecture Continental Rift Initiation: Top Down and Bottom Up Perspectives
June 2016	Ardhi University, Tanzania, Departmental Special Seminar Crustal Deformation and Volcano-Tectonic Interactions in East Africa
Apr 2016	Princeton University Dynamics of Lithosphere-Asthenosphere Interactions Along the East African Rift
Mar 2016	UNAVCO Science Workshop Invited Speaker: <i>Implications of Lithosphere-Asthenosphere Interactions on Rift-Parallel Deformation</i>
Mar 2016	Office of Foreign Disaster Assistance, USAID TZVOLCANO project introduction
Mar 2016	Volcano Disaster Assistance Program, United States Geological Survey TZVOLCANO project introduction
Mar 2016	Global Volcanism Program, Smithsonian Institute TZVOLCANO project introduction
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 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 Keynote: <i>Kinematics and Dynamics of the East African Rift</i>

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

COLLABORATORS AND OTHER AFFILIATIONS

International Collaborators: Kang-Hyeun Ji (Korea Institute for Geosciences and Mineral Resources), Xu Rui (Sichuan Earthquake Bureau), 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), Stewart Fishwick (University of Leicester), Juliet Biggs (University of Bristol), Sascha Brune (GFZ), Anne Glerum (GFZ)

U.S. Collaborators: Corné Kreemer (University of Nevada, Reno), James Gallagher and Dave Fulker (OPeNDAP), Mike Daniels (UCAR), Dave Mencin (UNAVCO), Andy Nyblade (Penn State), Wolfgang Bangerth (Colorado State University), Christelle Wauthier (Penn State), Estella Atekwana (Oklahoma State University), Scott Peckham (University of Colorado), Anne Sheehan (University of Colorado), Zach Easton and Dan Fuka (Virginia Tech), Deidre Gibson and Bill Moore (Hampton University), Chuck Meertens (UNAVCO)

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

Major Postdoctoral Advisor: Brad Hager, Massachusetts Institute of Technology

PROFESSIONAL COMMUNITY SERVICE

Public Access to Data Committee at Virginia Tech	2019 - present
NSF EarthCube Leadership Council (elected)	2017 - 2019
UNAVCO Virginia Tech Institutional member representative	2015 - present
NSF EarthCube Science Committee	2015 - present
NSF EarthCube P418-GUI Advisory Team	2018 - 2019
Grand Challenges in Geodesy Workshop	2018
NSF EarthCube Registry Priority Action Team	2017
NSF EarthCube 2017 All-Hands Meeting Organizing Committee	2017
EarthCube Architecture and Implementation Plan	2016

UNAVCO Education and Community Engagement Committee
American Geophysical Union Fall Meeting Session, Co-chair
Publication Reviewer
NSF Proposal Reviewer
American Geophysical Union Geodesy Executive Committee
2009-2012, 2015-2017
2014, 2016, 2017
2010-present
2013-present
2008-2010

PROFESSIONAL SOCIETY MEMBERSHIPS

American Geophysical Union Geological Society of America Seismological Society of America American Association for the Advancement of Science International Association for Geoscience Diversity

COMPUTATIONAL SKILLS

- GAMIT-GLOBK GNSS/GPS processing software maintained at MIT (requires knowledge of RINEX and BINEX geoscience data standards for GNSS/GPS data)
- Generic Mapping Tools, Matlab, TDEFNODE, LaTeX, SHELLS, AWK, vi
- sparse codes in Fortran (Holt and Haines, 1993; Flesch et al., 2001; Stamps et al., 2014, 2018)
- Coulomb 3.4
- CHORDS and Grafana
- GitHub community code development and contributions ASPECT (Computational Infrastructure for Geodynamics Community Code) in C++