

**Aubrey N. Adams**  
Assistant Professor

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**PROFESSIONAL PREPARATION**

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**University of Florida**, B.S., Geology 2004  
**Pennsylvania State University**, Ph.D., Geosciences 2010  
**Washington University in St. Louis**, Seismology, Postdoctoral Researcher Associate 2012 - 2014

**APPOINTMENTS**

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Assistant Professor	<b>Colgate University</b>	2015 – present
Lecturer	<b>Washington University in St. Louis</b>	2015
Research Scientist	<b>Washington University in St. Louis</b>	2015
Postdoctoral Research Associate	<b>Washington University in St. Louis</b>	2012 – 2014
Development Geophysicist	<b>Chevron</b> , Covington, Louisiana	2010 – 2012
Graduate Research Assistant	<b>Pennsylvania State University</b>	2004 – 2010
Graduate Teaching Assistant	<b>Pennsylvania State University</b>	2004 – 2007
Seismology Intern	<b>Chevron</b> , Houston, Texas	2006
Geophysics Intern	<b>Shell</b> , New Orleans, Louisiana	2005
Undergraduate Lab Assistant	<b>University of Florida</b>	2002 – 2004

**ADDITIONAL TEACHING AND MENTORING EXPERIENCE**

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**Washington University in St. Louis**

- Guest Lecturer for Signal Processing and Inverse Theory, Fall 2014
- Undergraduate Research Mentor, Spring 2013
- Guest Lecturer for Exploration Geophysics, Fall 2012

**Chevron**

- Educational Seminar Coordinator, July 2011
- Guest Lecturer at Pennsylvania State University, March 2011, March 2012

**Pennsylvania State University & University of Witwatersrand**, South Africa, June-Aug. 2008

- Undergraduate Research Mentor; Classroom and Field Camp Instructor

**FIELD EXPERIENCE**

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**Cascadia Initiative, Apply to Sail**

- Trained and participated in the deployment and surveying of ocean bottom seismometers as part of the Cascadia Initiative, Pacific Ocean offshore Oregon, USA, August 2014

**Washington University in St. Louis**

- Installation, maintenance, demobilization, and preliminary data analysis for seismic stations from South Pole Station, Antarctica, November 2012-January 2013
- Maintenance and preliminary data analysis for seismic stations from McMurdo Station, Antarctica, January-February 2014

**Pennsylvania State University**

- Demobilization & reinstallation of a broadband seismic array, Uganda & Tanzania, November – December 2008

- Broadband seismic array servicing, Uganda, November 2007
- Broadband seismic array deployment, Uganda, August – September 2007
- Broadband seismic station installations, Zambia, January 2006

## PROPOSALS SUBMITTED

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**Adams, A.**, D. Wiens and A. Nyblade. RUI Collaborative Research: Origin of a Hot Line in the Mantle: The Offshore Cameroon Volcanic Line. *Submitted to NSF – OCE – Marine Geology and Geophysics*, August 2015.

## PUBLICATIONS

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- Graw, J., **A. Adams**, S. Hansen, D. Wiens, L. Hackworth, and Y. Park (submitted), Volcanics in Northern Victoria Land, Antarctica, and Their Connection to Terror Rift, *Nature Communications*.
- Adams, A.**, Wiens, D., Nyblade, A., and G. Euler (2015), Evidence for the origin of the Cameroon Volcanic Line from Rayleigh wave tomography, *Journal of Geophysical Research*, **189**.
- O'Donnell, J. P., **A. Adams**, A. A. Nyblade, G. D. Mulibo, and F. Tugume (2013), The uppermost mantle shear wave velocity structure of eastern Africa from Rayleigh wave tomography: constraints of rift evolution, *Geophysical Journal International*, **194**, iss. 2, 961-978.
- Adams, A.**, Nyblade, A., and D. Weeraratne (2012), Upper mantle shear wave velocity structure beneath the East African Plateau: evidence for a deep, plateau-wide low velocity anomaly, *Geophysical Journal International*, **189**, 123-142.
- Adams, A.** and A. Nyblade (2011), Shear wave velocity structure of the southern African upper mantle with implications for the uplift of southern Africa, *Geophysical Journal International*, **186**, iss. 2, 808-824.
- Adams, A.**, R. Brazier, A. Nyblade, A. Rodgers, and A. Al-Amri (2009), Source Parameters for Moderate Earthquakes in the Zagros Mountains with Implications for the Depth Extent of Seismicity, *Bulletin of the Seismological Society of America*, **99**, 2044-2049.

## SELECTED MEETING ABSTRACTS

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- Adams, A.**, Wiens, D., Blackman, D., Webb, S., Dunn, D., Conder, J., and D. Zhao. (2014), Seismic structure of the Tonga Arc and Lau Backarc Spreading Center from joint inversion of local and teleseismic body wave arrivals, *Eos Trans. AGU*, 95(52), Fall Meet. Suppl., Abstract DI13B-4277
- Adams, A.**, Wiens, D., Blackman, D., Webb, S., Dunn, D., Conder, J., and D. Zhao. (2014), Seismic structure of the Tonga Arc and Lau Backarc Spreading Center local and teleseismic body wave tomography, *Bulletin of the Seismological Society of America*, 85 (2), Annual Meeting, #106.
- Adams, A.**, Wiens, D., Euler, G., Nyblade, A., and P. Shore. (2013), Upper mantle velocity structure beneath the Cameroon Volcanic Line region and implications for the formation of mantle hot lines, *Eos Trans. AGU*, 94(52), Fall Meet. Suppl., Abstract T31C-2183
- Adams, A.**, Euler, G., Wiens, D., Nyblade, A., Shore, P., Tibi, R., Tokam, A., Tabod, C., and A. Bekoa. (2012), Upper mantle phase velocity and shear wave velocity structure beneath the Cameroon Volcanic Line, *Eos Trans. AGU*, 93(52), Fall Meet. Suppl., Abstract T31C-2183
- Adams, A.**, Nyblade, A., and Weeraratne, D. (2010), Upper mantle structure in East Africa from rayleigh wave tomography using AfricaArray data, *Eos Trans. AGU*, 91(52), Fall Meet. Suppl., Abstract T31C-2183

- Adams, A.** and Nyblade, A. (2009), Rayleigh wave phase velocity and shear wave velocities in the western branch of the East African Rift System, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract T31B-1803
- Kgaswane, E., **Adams, A.** (presenter), and Nyblade, A. (2009), Shear wave velocity structure beneath southern Africa from Rayleigh wave tomography, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract S43D-02
- Adams, A.**, Nyblade, A., and Weeraratne, D. (2007), Rayleigh wave tomography of southern Africa: Preliminary results from AfricaArray, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract SS33A-1051
- Adams, A.**, Nyblade, A., Brazier, R., Rodgers, A., and Al-Amri, A. (2006), Earthquake source depths in the Zagros Mountains: A “Jelly Sandwich” or “Crème Brulee” Lithosphere?, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract S53A-1316
- Adams, A.**, Nyblade, A., Brazier, R., Rodgers, A., and Al-Amri, A. (2006), Lithospheric strength beneath the Zagros Mountains of southwestern Iran, *Eos Trans. AGU*, 87(36), Jt. Assem. Suppl., Abstract S21A-10

## RECENT WORKSHOPS

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- The Future of the Amphibious Array Workshop (2014)  
STEM Pedagogies: Incorporating Active-Learning Approaches in the Classroom (2014)  
OBSIP OBS Workshop (2013)  
GeoPRISMS East African Rift System Planning Workshop (2012)

## SERVICE AND OUTREACH EXPERIENCE

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- American Geophysical Union Fall 2015 Meeting**, Primary Convener and Chair, DI9788  
Geochemical and Geophysical Links Between Subduction Zone Dynamics and Arc Systems
- Overnight America, KMOX NewsRadio 1120** (June 5, 2015) Radio interview on earthquake hazards versus the representation of earthquakes in popular media
- Hold That Thought** (March 20, 2015) A podcast interview about the origins of the Cameroon Volcanic Line
- Washington University in St. Louis** (2014) *As the heat of summer settles on St. Louis, here is a gust of cold air from Antarctica*; (2013) *Tales from the field: maintaining seismic stations at the South Pole*; photo-journals in Washington University Newsroom
- Harris Elementary School** (April 2013, April 2014) Guest presentation to 2<sup>nd</sup> graders about the science and the history of Antarctica
- NSF-Earthscope**, (October 2013) Proposal reviewer
- Bulletin of the Seismological Society of America**, and **Geophysical Journal International**  
Paper Reviewer
- Science**, Book Reviewer, Vol. 324, Iss. 5932,(2009), *Summer Reading “Apocalypse: Earthquakes, Archaeology, and the Wrath of God”* by Amos Nur and Dawn Burgess.
- Pennsylvania State University Council for Women**, (2006 –2007) Representative

## AFFILIATIONS

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- American Geophysical Union**  
**Geological Society of America**  
**Seismological Society of America**  
**Toastmasters International**  
Club President, 2012; Club VP of Membership, 2011 –2011
- Graduate Women in Science**, 2004 – 2010  
President, September 2005 – December 2006