

## Amy Williamson

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### Education

**Denison University, Granville, OH** – 2013 – B.S. in Geoscience

*“Geothermobarometry of the Eagle Lake Pluton: Implications for its emplacement in relation to the Mineral King Pendant”* - Advisor: Dr. Erik Klemetti

**Georgia Institute of Technology, Atlanta GA** – Ph.D. Candidate

*“A comprehensive view of shallow tsunamigenic earthquakes through tsunami-geodetic joint inversions”* - Advisor: Dr. Andrew Newman

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### Fellowships

2016: **East Asia and Pacific Summer Institute (National Science Foundation)**

*Project Title: “Better Understanding of Shallow, Subduction Zone Earthquakes Through Bayesian Analysis: A Case Study of the 2015 Illapel, Chile Earthquake”*

*Visiting Institution: Australian National University, Canberra, Australia*

*Host Advisor: Dr. Phil Cummins*

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### Publications

Williamson, A., A. Newman, and P. Cummins (2017), Reconstruction of coseismic slip from the 2015 Illapel earthquake using combined geodetic and tsunami waveform data, *J. Geophys. Res. Solid Earth*, 122, doi:10.1002/2016JB013883.

Williamson, A L., A.V. Newman, P. Cummins, R. Benavente. "Incorporation of Multiple Datasets in Earthquake Source Inversions: Case Study for the 2015 Illapel Earthquake." *2016 AGU Fall Meeting*

Williamson, A L., A.V. Newman, E.M. Okal. "Detection and Modeling of the Tsunami Generated by 2013 Okhotsk Deep Focus Earthquake." *2015 AGU Fall Meeting*

Williamson, A L., and A. V. Newman. "Temporal Feasibility of Rapid Joint Inversions in Response to Tsunamis Triggered by Megathrust Earthquakes." *AGU Fall Meeting*  
*Recipient of AGU Outstanding Student Paper Award*

## **Workshop/Conference Attendance/Program Participation**

2016: American Geophysical Union Fall Meeting, San Francisco, California

Graduate Student Symposium, School of Earth and Atmospheric Sciences, Georgia Tech

*Incorporation of Multiple Datasets in Earthquake Source Inversions: Case Study for the 2015 Illapel Earthquake* - Best Oral Presentation

Subduction Zone Observatory workshop, Boise, Idaho

National Tsunami Hazard Mapping Program workshop, Boulder, Colorado

2015: American Geophysical Union Fall Meeting, San Francisco, California

2014: American Geophysical Union Fall Meeting, San Francisco, California

*Cascadia Initiative Expedition Team*: Graduate student volunteer on the 2014 CIET cruise

(leg 2) retrieving ocean bottom seismometers from off-shore Oregon and Washington

2013: Black Hills Field Camp (Kent State University), Spearfish, South Dakota

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## **Teaching**

- Structural Geology –EAS 4200 – Teaching Assistant, Georgia Institute of Technology
- Earth Processes –EAS 2600 – Teaching Assistant, Georgia Institute of Technology
  - Laboratory Teaching Assistant (2014 – 2016)
  - Lecture Teaching Assistant (2015)
- Geosciences Tutor –Center of Academic Advancement, Denison University (2010 – 2013)
- Introductory Geosciences – GEO 111 – Teaching Assistant, Denison University (2010 – 2013)

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## **Involvement & Outreach**

### Organizations:

- Society for Exploration Geophysicists student chapter, President (2015)
- Earth and Atmospheric Sciences Graduate Student Government, Geophysics division representative (2014 – 2015)
- C.L. Herrick Geological Society, Vice President/ Treasurer (2011-2013)

### Volunteer:

- Georgia Tech Undergraduate Research Symposium Judge (2017)
- Georgia Tech President's Undergrad Research Award proposal reviewer (2013-2017)
- GT Center for Education Integrating Science, Mathematics, and Computing (CEISMIC) support for regional Science Olympiad tournament (2015, 2017: Event supervisor: Remote Sensing)
- "Discover Earth" an interactive exhibit at the Atlanta Science Festival (2015)

Williamson, Amy