

# KASEY ADERHOLD

Earthquake Seismologist

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## EDUCATION

- 2010 - 2015 + Ph.D. Earth Sciences  
[Boston University](#) Research and Teaching Fellow  
CGPA: 3.80 Graduate Student Representative
- 2006 - 2010 + B.A. Computer Science, Environmental Science  
[DePauw University](#) Summa Cum Laude  
CGPA: 3.81 Rector Scholar (full-tuition, merit-based)  
Semesters at University of Aberdeen, University of Otago

## WORK EXPERIENCE

- 2015 - Now + Incorporated Research Institutions for Seismology  
[Project Associate](#)
- Perform data quality assessments of seismic data
  - Develop data products, e.g. horizontal orientations
  - Prepare reports on operations and community activities
  - Engage the community via presentations and websites
- 2010 - 2015 + Boston University  
[Research and Teaching Fellow](#)
- Modeled oceanic strike-slip earthquake source parameters
  - Taught weekly lab/discussion sections (70-80 students)
  - Invited seminar talks (Harvard, MIT, UNH, Brown, Lamont)
  - Three first-authored, peer-reviewed publications
- 2013 + IRIS PASSCAL Instrument Center  
[Graduate Intern](#)
- Installed/demobilized 9 seismic stations in NM and AK
  - Developed scripts to compare station data quality metrics
  - One published first-authored, peer-reviewed journal article
- 2006 - 2010 + DePauw University  
[Research and Teaching Assistant](#)
- Taught weekly intro Computer Science labs (20 students)
  - Developed wireless sensor network time-sync algorithm
  - Used GPS data to characterize marine mammal habitat use

## FIELD EXPERIENCE

- 2016 - 2018 + Alaska Transportable Array Deployment
- Construction/servicing of seismic stations in remote areas
  - Sites were accessed via helicopter, fixed wing, and truck
- 2014 + iMUSH Active Seismic Experiment
- Deployed 120+ Texan Geophones, part of 50+ person crew
  - Hiked in 30lbs+ on trails, forestry roads near Mt St Helens
- 2013 + Cascadia Initiative Leg 5 on R/V Oceanus
- Four day research cruise off-shore Oregon and Washington
  - Deployed 14 SIO ABALONE ocean bottom seismometers

## ABOUT ME

Hometown: Homer, Alaska

Training: Firearms and Predator Defense (.44 Revolver & .45-70 Rifle), Wilderness First Aid, Helicopter Underwater Egress, DOI Interagency Aviation Training (A100, A200, A312)

Logistics: Organized 2015 and 2017 OBS Symposiums (120 attendees), Graduate Student Event Coordinator, 2013/14 AGU Session Convener

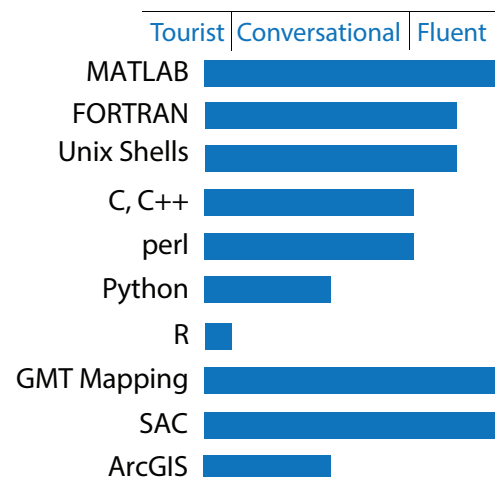
Interests: Hiking/Camping, Travel, Design, Science Communication, Digital Video Recording & Editing

## OBJECTIVE



I am a researcher with broad interests and I am able to develop a solid background in new subjects quickly. My strengths in programming and seismic research are complemented by my skills in communication and leadership. I intend to bridge the gap between fields. I also enjoy the logistics of large-scale, community-driven projects and their potential for public outreach.

## PROGRAMMING



Additional skills include Mac/PC/Linux operating systems, Adobe Illustrator, and Microsoft Excel/Word/Powerpoint