

# Curriculum Vitae

**James Farrell**  
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## EDUCATION

20xx Ph.D. Earth Sciences (in progress), Syracuse University, Syracuse, NY  
Dissertation topic: Structural analysis, microplate kinematics, and rift propagation in a subaerial seafloor spreading environment: Iceland

2015 M.S. Geology, The University of Connecticut, Storrs, CT  
Thesis topic: Investigating the relationships between continental rifting, magmatism, and upper crustal deformation through paleostress inversion of faults in the Hartford basin.

2012 B.S. Geology, Stony Brook University, Stony Brook, NY  
Research topic: Exploring soft-sediment deformation in glacial moraines with shallow subsurface geophysics.

## FIELD EXPERIENCE

Graduate Assistant. Geology and Geohazards in Taiwan. Winter 2014.

- Field course highlighting the tectonic geomorphology of Taiwan
- Pre-trip responsibilities include student instruction on basic geology and travel logistics.
- Further duties included field guide edits, budget maintenance, student mentoring, grading and assessments.

GeoPRISMS ENAM Community Seismic Experiment. Greenville, NC. Fall 2014.

- Participated in an active source seismic experiment targeting the eastern North American passive margin
- Sited and negotiated instrument locations with local landowners
- Deployed and recovered RefTek 130 seismic recorders

Student Intern. United States Geological Survey, Coram, NY. 2012-2013

- Collected data in the field such as groundwater elevation, stream stage and velocity, etc.
- Assisted in leveling and developing groundwater monitoring wells in Long Island, NY

- Processed and prepared data for the USGS national database using various software
- Examined borehole geophysical data and core samples to map lithologic contacts
- Performed site visits at drilling operations to document core samples

Undergraduate Research Assistant. Stony Brook University, Stony Brook NY. 2012

- Coordinated geophysical research regarding glacial tectonics in Long Island, NY
- Operated ground penetrating radar, resistivity, and surveyors equipment
- Processed raw data and interpreted survey results using ReflexW 2-D analysis software
- Sought analogs between soft sediment and solid earth deformation processes
- Designed presentation for LIAPG Long Island Geology Conference

## **TEACHING EXPERIENCE**

Graduate Teaching Assistant. Syracuse University, Syracuse, NY. 2015-present

Courses:

- Volcanoes and Earthquakes

Graduate Teaching Assistant. University of Connecticut, Storrs, CT. 2013-2015

Courses:

- Geology and Geohazards in Taiwan (field course)
- Earth Structure
- Natural Hazards
- Earth and Life Through Time

Undergraduate Teaching Assistant. Stony Brook University, Stony Brook, NY. 2012

Courses:

- Introduction to Geophysics

## **AWARDS, HONORS, FUNDING**

2015 Outstanding Graduate Research Award – UConn Center for Integrative Geosciences

2015 Outstanding Graduate Poster Award – Northeast GSA

2015 GeoPRISMS Student Presentation Award (honorable mention)

2014 The Marland Pratt Billings and Katharine Fowler-Billings fund for research in New England geology.

2014 Geological Society of America graduate student research grant

2014 Geological Society of Connecticut student research grant

## **PUBLICATIONS, ABSTRACTS, AND PROCEEDINGS**

Farrell J. 2015. *Paleostress States and Tectonic Evolution of the Early Mesozoic Hartford Basin*. M.S. thesis, University of Connecticut.

Crespi J, Farrell J, Evans M, Smith M, Pirovane N. 2015. *Faulting in the Hartford Basin and its Relation to Magmatic Activity, Intrabasinal Fluid Flow, and Mineralization*. New England Intercollegiate Geological Conference (Field guide).

Farrell J, Crespi J, Ostebo D, Weingart M. 2015. *Brittle deformation within the eastern North American volcanic margin: Paleostress inversion of faults in the Hartford basin*. Northeast GSA Spring Meeting 2015. (Abstract)

Farrell J, Crespi J, Ostebo D, Weingart M. 2014. *Brittle deformation within the eastern North American volcanic margin: Paleostress inversion of faults in the Hartford basin*. AGU Fall Meeting 2014. (Abstract)

Davis D, Farrell J, Inoa J, Last H, Swirson G, Tang Y, Zagorsky G. 2013. *Geophysical Insights Into the Origin of 'The Wall', a Glaciotectonic Feature on the Stony Brook Campus*. Long Island Association of Professional Geologists 20<sup>th</sup> Annual Conference. (Abstract)

Davis D, Farrell J, Freiss M, Inoa J. 2012. *Geophysical Imaging in a Moraine*. Long Island Association of Professional Geologists 19<sup>th</sup> Annual Conference. (Presentation)

## **SERVICE**

### *Elementary School Science Outreach*

Harlem, NY. Volunteered at the Harlem River Festival as a hydrologic science representative. Instructed children on the impacts of combined sewer overflow and general water quality of the Harlem River.

## **REFERENCES**

Available upon request.