

# Daniel Woodworth

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## Education

### Rice University, Houston, TX

August 2014 – May 2018 (expected)

Doctor of Philosophy in Geoscience

Thesis: *Pacific Plate Movement during the Hawaiian-Emperor Bend*

Major GPA: 3.78/4.00 (Cumulative GPA: 3.78/4.00)

### Texas Christian University, Fort Worth, TX

August 2010 – May 2014

Bachelor of Science in Geology with minors in Mathematics and Physics

Major GPA: 3.91/4.00 (Cumulative GPA: 3.68/4.00)

## Presentations

**Woodworth, Daniel** and Gordon, Richard G. Hawaiian Hotspot Motion, Hotspot Reference Frames, and True Polar Wander since ~50 Ma BP. Industry-Rice Earth Science Symposium, Houston, Texas, 2017.

**Woodworth, Daniel** and Gordon, Richard G. Pacific Plate Deformation due to Plate Motion Relative to the Spin Axis on a Nonspherical Earth. AGU Fall Meeting 2016, San Francisco, California, 2016.

**Woodworth, Daniel** and Gordon, Richard G. The Rate of Intraplate Deformation due to Plate Motion Relative to the Spin Axis of an Oblate Spheroidal Earth. Industry-Rice Earth Science Symposium, Houston, Texas, 2016.

**Woodworth, Daniel** and Gordon, Richard G. Intraplate Deformation Due to Motion of Plates over a Nonspherical

Earth. AGU Fall Meeting 2015, San Francisco, California, 2015.

**Woodworth, Daniel.** Investigating a Possible Impact Structure in North-Central Oklahoma. TCU SRS 2014, Fort Worth, Texas, 2014.

Alsleben, Helge, Enderlin, Milton, Kiesel, Meredith, and **Woodworth, Daniel.** Using XRF Analyses to Understand the Effects of Compositional Variations on Rock Strength Determined from Micro-Mechanical Devices. GSA 2013, Denver, Colorado, 2013.

Adams, Ashley, DuBose, Megan, **Woodworth, Daniel,** and Holbrook, John. Apparent Non-Coincident Coupling of the Missouri River Trunk System to Mid-Continent Climate Change. GSA 2013, Denver, Colorado, 2013.

**Woodworth, Daniel,** DuBose, Megan, and Adams, Ashley. Morphology of the Holocene Missouri River in Northwestern Missouri. GSA 2013, Denver, Colorado, 2013.

**Woodworth, Daniel,** Alsleben, Helge, and Enderlin, Milton. Alternative Methods of Measuring Strength Anisotropy in the Barnett Shale. AAPG Southwest Section Meeting, Fredericksburg, Texas, 2013.

## Publications

Adams, Ashley, **Woodworth, Daniel,** and DuBose, Megan. “Surficial Geologic Map of the Big Lake 7.5’ Quadrangle, Holt County, Missouri.” University of South Dakota Press (*submitted*).

DuBose, Megan, **Woodworth, Daniel,** and Adams, Ashley. “Surficial Geologic Map of the Craig 7.5’ Quadrangle, Holt County, Missouri.” University of South Dakota Press (*submitted*).

**Woodworth, Daniel,** Adams, Ashley, and DuBose, Megan. “Surficial Geologic Map of the Corning 7.5’ Quadrangle, Holt County, Missouri.” University of South Dakota Press (*submitted*).

## Honors and Awards

### 2016 IRESS 3rd-Place Poster

Awarded for “The Rate of Intraplate Deformation due to Plate Motion Relative to

the Spin Axis of an Oblate Spheroidal Earth” at the Industry-Rice Earth Science Symposium (IRESS).

**2015 Sam and Helen Worden Fellowship**

Awarded to students who have demonstrated remarkable leadership in earth science, biology, or physics

**2013 Dan Jarvie Award**

Awarded annually by the TCU Energy Institute for excellence in research relating to shale exploration

**2013 AAPG Southwest Section Scholarship**

Awarded to deserving students engaged in geological research in fields related to oil and gas exploration

**Sigma Gamma Epsilon Honors Society for the Earth Sciences**

Recognizes academic achievement in the Earth Sciences

**Leadership Experience**

**Society of Physics Students**, May 2012 – May 2014

Elected secretary in 2012 and president in 2013

Organized academic and social events for students interested in physics

**TCU Computer Science Society**, May 2012 – May 2014

Helped to organize lectures on topics in computing

**Sigma Gamma Epsilon**, May 2011 – May 2014

Elected treasurer and managed organizational finances

Assisted in coordinating field trips, lectures, and social activities for earth science students

**Volunteer Experience**

**Klein Forest High School**, February 2015

Spoke to senior-level earth science classes on developments in tectonics

**Society of Physics Students Physics Olympics**, August 2013 – May 2014

Coordinated with local high schools

Designed projects to encourage interest in physics as part of TCU Physics “Physics Olympics”

**TCU Department of Physics and Astronomy**, August 2013 – May 2014

Tutored students in physics and astronomy classes

**Sigma Gamma Epsilon Trinity River Cleanup**, January 2012 – May 2014

Organized regular events to collect litter along the Trinity River