

Daniel Woodworth

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Education

➤ Rice University, Houston, TX

Doctor of Philosophy in Geoscience, anticipated May 2018

GPA: 3.78

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

➤ Texas Christian University (TCU), Fort Worth, TX

Bachelor of Science in Geology with minors in Mathematics and Physics, May 2014

GPA: 3.68

Professional Experience

Research Assistant, August 2014 – Present

Rice University Department of Earth Science, Houston, TX

- Developed and presented a new method for calculating intraplate strain rates created by lithospheric motion relative to the spin axis of a nonspherical Earth
- Related courses: Earth Systems Modeling, Advanced Seismology, Tectonophysics, Inverse Methods, Marine Geology Systems

Teaching Assistant, May 2016 – Present

Rice University Department of Earth Science, Houston, TX

- ESCI 452: GIS for Geoscientists

Student Researcher, May 2013 – May 2014

TCU School of Geology, Energy, and the Environment, Fort Worth, TX

- Collected drill core data in the Missouri River Valley to create a trio of quadrangle maps of paleochannels

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 2016 Industry-Rice Earth Science Symposium (IRESS).

2015 Sam and Helen Worden Fellowship

- Awarded to graduate students who have demonstrated 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 students who demonstrate excellence in research in fields related to oil and gas exploration

Technical Skills

- Programming in MATLAB, C, Java, and shell scripts
- ArcGIS
- Microsoft Excel/LibreOffice Calc

Volunteer Experience

Klein Forest High School, February 2015

- Spoke to senior-level earth science classes on developments in Earth Science

Society of Physics Students, May 2012 – May 2014

- Elected secretary in 2012 and president in 2013; coordinated planning for TCU’s “Physics Olympics” for local high-school students and provided tutoring to students in physics classes

Sigma Gamma Epsilon Honors Society for the Earth Sciences, May 2011 – May 2014

- Elected treasurer in 2012; managed finances and provided tutoring to students in Earth science classes