

## **J. Matthew R. Cannon**

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### **EDUCATION:**

	Graduation date:	GPA:
University of Houston Phd	May 2015	3.71
University of Texas at El Paso M.S.	August 2011	4.0
B. S.	May 2009	3.0

### **EMPLOYMENT HISTORY:**

- Teaching Assistant University of Houston Houston, TX  
September 2012 – December 2012  
Taught Paleo-Biology labs
- Teaching Assistant University of Houston Houston, TX  
July 2012 – August 2012  
Taught Geology Field Camp at the Yellowstone-Bighorn Research Station, Red Lodge MT, and Dillon WY
- Teaching Assistant University of Houston Houston, TX  
January 2012 – May 2012  
Taught Field Methods labs
- Teaching Assistant University of Houston Houston, TX  
September 2011 – December 2011  
Taught undergraduate Physical Geology labs
- Research Assistant University of Texas at El Paso El Paso, TX  
January 2011 – August 2011  
Activities included analyzing detrital samples, interpreting results, modeling possible scenarios, and writing the results.
- Teaching Assistant University of Texas at El Paso El Paso, TX  
December 2010 – January 2011 (Wintermester)  
Teaching Assistant for the Geology Field Camp class, duties include aiding students in creating geologic maps, and understanding structural complexities in the field.
- Teaching Assistant University of Texas at El Paso El Paso, TX  
September 2010 – December 2010  
Teaching Assistant for the Geoscience Processes class, duties include instructing students in field mapping and classroom exercises.
- Research Assistant University of Texas at El Paso El Paso, TX  
January 2010 – August 2010

Conducted a remote sensing investigation of NW Bhutan leading up to the May 2010 field season. During May 2010 I carried out a month long investigation in NW Bhutan activities included field mapping, observations, and sampling for thermochronology,  $^{14}\text{C}$ , and OSL dating of sediments.

- Teaching Assistant University of Texas at El Paso El Paso, TX  
August 2009 – December 2009  
Teaching Assistant for the Geoscience Processes class, duties include instructing students in field mapping and classroom exercises.
- Research Assistant University of Texas at El Paso Chugach Mt., AK  
June 2009 – August 2009  
Assisted Mitchell Scharman, Doctoral Candidate at UT El Paso, in field mapping of the Chugach metamorphic complex, southeast Alaska.
- Texas Bureau of Economic Geology Austin, TX  
April 2008 – November 2008  
Collected soil samples from 0 – 6” and 12 – 24” depth from predetermined sample locations between El Paso and Del Rio, TX. Samples are being used to create a map of trace element distribution in soils across the state of Texas.
- Air Dimension Mapping El Paso, TX  
June 2008 – October 2008  
Calculated flight paths and altitudes, operated camera, and developed film.
- Pathways Research Experience Program El Paso, TX  
September 2008 – May 2009  
Conducted research on Chihuahua Trough basin margin paleo-currents preserved in conglomerate and sandstone exposures at the Indio Mountains Research Station. Mentors for this project were Dr. Langford and Dr. Pavlis.
- EPA Student Support Research Program El Paso, TX  
January 2007 to May 2008  
Conducted a study of radionuclide uptake in plants at the Pena Blanca Uranium District, Chihuahua, Mexico. Mentor for this project was Dr. Goodell.

### **FIELD AND LABORATORY SKILLS:**

- Field mapping using traditional paper methods and handheld computer (the iPAQ by HP and the Juno by Trimble).
- Interpretation of remotely sensed images.
- Operation of ArcMAP and ArcPAD GIS systems.
- Operation of ENVI for spectral analysis.
- Sample collection: oriented bedrock, detrital,  $^{14}\text{C}$ , OSL sediment cores, plants
- Heavy liquid separations.
- Operation of the Frantz Isodynamic Separator.
- Operation of inductively coupled plasma optical emission spectrometer (ICP – OES).
- Operation of Canberra high purity Ge – Li gamma ray detector.

### **PRESENTATIONS:**

- Cannon, J. M., Goodel, P., (2008), Differential Uptake of Radionuclides by Plants at the Pena Blanca Uranium District, Chihuahua, Mexico. Poster presented at the University of Texas at El Paso Geology Department Colloquium.
- Cannon, J. M., Langford, R., (2009), Paleo-Currents in the Yucca Formation, Indio Mountains, Hupspeth County, Texas. Poster presented at the University of Texas at El Paso Geology Department Colloquium.
- Cannon, J. M., Hurtado, J. M., (2010), Investigating a Possible Interaction Between the South Tibetan Detachment and the Yadong Cross Structure, NW Bhutan. Oral presentation at the University of Texas at El Paso Geology Department Colloquium.
- Cannon, J. M., Hurtado, J. M., (2010), The East Jhomolari Fault System, NW Bhutan: Onset, Displacement, and Most Recent Activity of a Little Known, Young Fault Zone and its Regional Significance. Poster presented at the 2010 Geological Society of America Annual meeting.

### **AWARDS:**

- Third place graduate student oral presentation University of Texas at El Paso, Geology Department Colloquium (March 2010)
- Outstanding Undergraduate in Geological Science, presented by the College of Science University of Texas at El Paso (May 2009)
- Third place in the “Chasing the Stars” category at the Hueco Tanks Rock Rodeo rock climbing competition (March 2009)
- Vernon G and Joy Hunt Scholarship (2009 – 2010)
- W P Nash Scholarship (2008 – 2009)
- Rowling Reese Scholarship (2007 – 2008)
- Fifth place in the Beginners category at the Hueco Tanks Rock Rodeo rock climbing competition (March 2006)

### **ACTIVITIES:**

- UTEP Geology Club
- Representative for the Earth Science Week public awareness campaign
- Public school science fair judge
- Rock climber
- Hiker
- Photographer