

*Curriculum Vitae*

**ANTONY N. GILES**

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**PERSONAL**

Date of Birth: December 19, 1964  
Place: Oxford, England  
Citizenship: United Kingdom  
US Visa Status: Permanent Resident  
Gender: Male

**EDUCATION**

Ph.D. – Geology (ABD)  
Emphases: Volcanology, Igneous Petrology, Geochemistry, Structural Geology  
School of Earth and Environmental Science  
Washington State University  
Pullman, WA 99164-2812  
2006 to 2010

Research Focus: *Petrogenetic modeling of the widespread silicics of the Trans-Pecos Volcanic Province and a comparison to those of the Snake River Plain and other areas.*

Master of Science – Geology – GPA: 4.0  
Emphasis: Igneous Petrology, Geochemistry, Volcanology  
Sul Ross State University  
Alpine, TX 79832  
2006

Thesis: *Geochemical Evolution of the Chinati Mountains, Presidio County, Texas.*

Bachelor of Science – Geology – GPA 3.6  
Emphasis: Structural Geology  
Minor -- Astronomy/Physics  
University of Arkansas at Little Rock  
Little Rock, Arkansas  
1998

High School – GPA 4.0 (equivalent)  
Cowley St. John Upper School, Oxford, England  
1983

## SHORT COURSES

SEG DISC:  
Microseismic Imaging of Hydraulic Fracturing:  
Improved Engineering of Unconventional Shale Reservoirs  
Midland, TX  
2014

Laboratory Safety  
Houston, TX  
2013

Building your Online Course  
Quality Matters, Inc.  
(Online)  
2013

Applied Groundwater Statistics  
Riverside, CA  
2003

## RECENT EMPLOYMENT HISTORY

**Sul Ross State University – Adjunct Instructor of Geology:** January 2014-Present. Chair: Dr. Chris Ritz. Lab instructor for Igneous and Metamorphic Petrology for distance education course. Lecturer: Volcanoes of the West (Fall 2014); Igneous and Metamorphic Petrology (Spring 2016, 2017)

**Midland College – Associate Professor of Geology:** August 2013-Present. Dean: Dr. Margaret Wade. Lecturer in Physical and Historical Geology, Mineralogy. Geology Club mentor. Committees: Distance Learning. CAS campus coordinator.

**Nicholls State University -- Instructor:** January 2011-August 2013. Chair: Dr. Vincent Giannamore. Lecturer in Physical Geology, Historical Geology, Physical Science, and Introductory Physics. Committees: Physical Faculty Hiring, Student Grievance (substitute)

**Washington State University -- Teaching Assistant:** January 2007-July 2010. Supervisor: Kurt Wilkie. Responsible for teaching Geology 101 lecture to classes averaging 240 students, meeting with students, advising students, preparing educational materials, developing and running field trips, and conducting recruitment activities (volunteer). Achievements: Bringing in a number of new geology majors, revising presentations, developing curricula.

**Washington State University – Teaching Assistant:** August 2006-December 2007. Supervisor: Kurt Wilkie. Responsible for teaching Geology 101 laboratory courses along with assisting with examination proctoring and field trips.

**Sul Ross State University -- Research Assistant:** PI: Dr. Kevin Urbanczyk. Funded through the Rio Grande Basin Initiative to collect and analyze data for eventual development of a Groundwater Availability Model (GAM) for sustainable water supplies in the west Texas region. Set up of equipment related to data collection and daily GOES satellite transmission. In addition to research responsibilities I also taught undergraduate igneous petrology lecture and laboratory and GIS laboratory, set-up and maintained the rock preparation laboratory equipment (basic rock preparation equipment as well as geochemical bead equipment).

**Arkansas Dept. of Environmental Quality, Solid Waste Management Division – Senior Geologist:** August 2002-August 2004. Supervisor: Gerald Delavan (501) 682-0602. Responsible for the review, analysis, and regulation of groundwater monitoring reports associated with solid waste facilities, meeting with consultants and facility staff to determine courses of action, and ensuring facility compliance with the relevant technical regulations (Federal and State). Composed reports to my superiors and implemented courses of corrective action. Reviewed permit and permit modification applications, and geologic and hydrogeologic reports, and mapped facilities utilizing Trimble GPS, Surfer, RockWorks, and ArcGIS. Achievements: Caught up on a six month backlog of reports so that consultants could get feedback on reports within a two week timeframe.

**Staff Geologist, Genesis Environmental Consulting, Inc.:** October 2000-August 2002. Supervisor: Ken Bown (501) 455-2199. Supervision of drill crews while logging boreholes and performed surface and borehole geophysical field surveys. Monitored landfill construction to ensure compliance with state and federal regulations (AR Regulation 22 and Subtitle D). Monitored and sampled groundwater at facilities and worked on various geologic projects as necessary. Researched and prepared the geologic, hydrogeologic, and geotechnical sections for Permit Applications. Prepared reports of geologic field activities for submittal to state regulatory agencies.

**Bioengineering Resources Inc.:** August 1998 - August 2000. Supervisor: Scott Breshears (501) 521-9955. Monitored and adjusted as necessary a process utilizing a bio-reactor, extraction system and distillation. Performed routine laboratory testing, including optical density, gas chromatogram and pH measurements, on samples from the process. Achievements: Retooled the plant for higher efficiency.

#### **LICENSES AND CERTIFICATION**

Quality Matters (NSU, MC)  
Radiation Safety Certification (WSU)  
Standard First Aid and Adult CPR (WSU)  
MSHA 40-hour (ADEQ)  
OSHA 40-hour (GEC)  
Radiation Safety (GEC)  
Radiation Transportation Safety (GEC)

#### **RESEARCH, PUBLICATIONS AND PRESENTATIONS**

*Recognition of variants of A-type rhyolite: a comparison of the Snake River plain and Trans-Pecos Texas volcanic provinces* A.N. Giles and J.A. Wolff, American Geophysical Union Annual Meeting, San Francisco, CA, 2009

*The use of term projects and photo projects in large format (200+students) introductory geology courses:* A.N. Giles and K.Wilkie, American Geophysical Union Annual Meeting, San Francisco, CA, 2009

*Two petrologic types of high-grade ignimbrite? A comparison between rhyolites of the Trans-Pecos Texas and central Snake River plain volcanic fields,* Giles, Antony N.; Wolff, John A.; Larson, Peter A.; Urbanczyk, Kevin M: Abstracts with Programs - Geological Society of America, March 2008, Vol. 40, Issue 3, pp. 11-12

*A Case Study of Greenstone in the Davis Mountains, Texas: A Possible Source for Lunate Stones,* Walter, R. and Giles, A., Archaeological Explorations of the Eastern Trans-Pecos and Big Bend: Collected Papers, Volume 1, 2014.

*Geochemical Evolution of the Chinati Mountains, Presidio County, Texas* (Master's Thesis, 2006).  
Advisor: Dr. K. Urbanczyk (SRSU).

*Application of Lineament Analysis to Groundwater Availability Models*, Urbanczyk, Kevin and  
Giles, Antony: Texas Groundwater Meeting, 2005.

*Volume loss during formation of slaty cleavage in the Mazarn Shale (Ordovician) of Arkansas*  
(unpublished). Advisor: Dr. J. Connelly (UALR).

*Seismic possibilities of a ring laser* (unpublished). Advisors: Dr. J. Connelly (UALR) and Dr. B.  
Dunn (Hendrix College, Conway, AR).

*Survey of the Fauna of the Anona Chalk (Cretaceous) of South Arkansas* (unpublished). Advisor:  
Dr. J. Thurmond (UALR)

### **GRANTS, HONORS, AND AWARDS**

Midland College Foundation Grant # 04.15.274, \$5900 to develop online Physical Geology lab  
H. Walter and Jeanette Praetorius – Exxon Graduate Fellowship, 2007  
Outstanding Graduate Student, SRSU, 2006  
President, UALR Geology Club, 1996 - 1998  
Geology Department Service Award, 1997 and 1998  
UALR Dean's List, nine semesters

### **PROFESSIONAL AFFILIATIONS**

Member, American Geophysical Union, Since 2007  
Member, Geological Society of America, Since 1997

### **VOLUNTEERISM**

Summer Science Academy, Midland College, 2014/15  
Science Extravaganza, Midland College, Spring 2014/15  
LSAMP Conference: Science Poster Judge, 2013  
Girl Scouts: Thibodaux, LA, Mt. St. Helens badge, presenter and mentor 2011  
Cub Scouts Webelos Den: Thibodaux, LA, Geology belt and loop, Presenter and Mentor 2011  
Science Olympiad: Developer and Invidulator, Thibodaux, LA 2011-2013  
Garfield-Palouse High School Mentor: Spring 2010 – Ethan Ashcraft, Volcanology senior project.  
Garfield-Palouse High School Mentor: Fall 2009 – Celeste Rossi, Journalism senior project.  
Washington State University: SEES Recruitment Committee  
Washington State University: Fall 2008 -- Freshman Focus  
Washington State University: Presentations for high school students.  
Washington State University: General interest lectures for high school students.  
Sul Ross State University: 2006 – Field camp assistant.  
Sul Ross State University: 2005 and 2006 – High school field trips.  
Sul Ross State University: Organized and staffed geology graduate school booth at Geological  
Society of America South-Central Annual Meeting, 2006.  
Member, UALR College of Science and Engineering Technology Advisory Council, 1998  
Little Rock, 1997: High school science fair mentor and judge.

## REFERENCES

Dr. Margaret Wade, Dean  
Dept. of Math and Science  
Midland College  
Midland, TX 79705  
E-mail: mwade@midland.edu

Phone: 432-685-4615

Dr. Chadwick Young, Professor  
Department of Physical Science  
Nicholls State University  
Thibodaux, LA 70301  
E-mail: chad.young@nicholls.edu

Phone: 985-448-4879

Dr. Kurt Wilkie, Instructor,  
School of Earth and Environmental Sciences,  
Washington State University,  
Pullman, WA 99164-2812  
E-mail: geology101@mail.wsu.edu

Phone: 509-335-2261

Dr. Kevin Urbanczyk, Professor,  
Earth and Physical Sciences,  
Sul Ross State University,  
P.O. Box C-114  
Alpine, TX 79832  
E-mail: kevinu@sulross.edu

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Dr. James Whitford-Stark, Professor, Retired,  
Earth and Physical Sciences,  
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