

TRISHA L. JACKSON

Curriculum Vita

Current position: Graduate Research Assistant
The University of Kansas
Department of Geography
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EDUCATION

Ph.D. in Geography, The University of Kansas, anticipated May 2011

Masters of Arts in Geography, The University of Kansas, August 2007

Bachelor of Science in Physical Geography, Texas State University, December 2004

Summa cum laude
Minor in Chemistry

Overall GPA: 3.97
Major GPA: 4.00

PROFESSIONAL EXPERIENCE

Graduate Research Assistant

The University of Kansas, May 2005 to present

Constructed global urban dataset of four levels of urban density including a spatial component and buildings database, which is now part of the global climate model of the National Center for Atmospheric Research (NCAR). Recent work involves adapting this dataset for temporal projects, especially concerning urban areas of the future. Previous projects: Analysis of global climate models' predictions of future climate change in Kansas. Also, analysis of global landcover data products.

Graduate Teaching Assistant

The University of Kansas, summer 2006

Taught laboratory section of Introductory GIS course.

Customer Service Representative –Tech Support

Sunflower Broadband, May 2005 to May 2006

Received incoming calls from broadband subscribers requiring technical assistance with computer, cable, telephone, and related issues.

Administrative Assistant

Texas Nurses Association, June 2000 to August 2003

Assisted Directors of Practice and Governmental Affairs. Created presentation for Texas legislature which resulted in increased funding to nursing schools. Managed project to remove mercury from Texas hospitals. Created emergency terrorism library for state of Texas preparedness project, Ready Texas Nurses.

Research and Development Coordinator and Office Manager

Bell LLC, March 1998 to December 2000

Performed prototype design and testing, data analysis, proposal and report writing, as well as background and patent research.

Mad Scientist

Mad Science, Inc., summer 1998

Taught entertaining, after-school science lessons to K-6 graders.

Assistant Manager

Fisher Coffee Co., October 1995 to January 1998

Mitigated customer and staff issues, controlled inventory, prepared deposits, and provided customer service.

Head Laboratory Technician and Research Assistant

JaCam, Inc., April 1992 to December 1993

Conducted chemical tests on water samples from oil wells, then analyzed results in order to make appropriate recommendations to field engineers. Assisted president in environmental research projects.

AWARDS & RECOGNITION

- **IGERT C-Change Fellow**, 2008-2013. Five years of funding to study biological, ecological, and social components of global climate change
- **Non-Traditional Student Organization Grant**, Fall/Spring 2007-08
- **Student Senate Childcare Grant**, Fall/Spring 2007-08
- **Geography Scholarship**, May 2007, May 2008
- **GIS Day award winner (3rd place)**, November 2005
Competed by presenting GIS project, "On the verge of suburbia" regarding the trials in developing a global urban dataset.
- **National Dean's List**, 2004-05 school year
Requires GPA within top 1% of all college students nationally
- **Alpha Chi Honor Society**, 2004 to present
National chemistry honor society that requires excellent GPA
- **McGraw-Hill Award for Academic Excellence**, spring 2003
Recognition for academic achievements, including advanced coursework and excellent GPA.
- **Sally Ann Karnau Geography Scholarship**, spring 2002
Awarded based on GPA and essay about career goals in geography
- **Gamma Theta Upsilon Honor Society**, 2000-01 school year
Geography honor society that requires an excellent GPA, service to the community and participation in the university's geography activities.
- **Texas State University General Fund Scholarships**, spring and fall 2000
Unsolicited scholarship awarded for excellent GPA and financial need.
- **Texas State University Dean's List**, fall 2000
Recognizes full time students with an excellent GPA.

DEPARTMENTAL/UNIVERSITY SERVICE

- President, Non-Traditional Student Foundation of KU, 2008-09 – recent work involves developing and promoting the university's support in providing a resource center for non-traditional students, especially populations in greatest need, including veterans of foreign wars.
- Graduate representative to Geography Advisory Board, 2008
- GIS Speaker in Physical Geography Laboratory
- Student Mentor for Introduction to Physical Geography Laboratory – mentored current teaching assistants (whose specialty falls outside physical geography) in effectively presenting physical geography concepts in laboratory.
- Evaluation of applicants for Soils/Geomorphology position

PUBLICATIONS

Johnson, W.C. and Jackson, T. 2009. *Physical Geography Laboratory Exercises, ninth ed.* Kendall-Hunt Publishing Company: Dubuque, IA.

Wu, S., Zhou, S., Li, X., Jackson, T., and Zhao, Q. 2009. An approach to partition the anthropogenic component of heavy metal accumulations in roadside agricultural soil. Submitted: *Environmental Geology*.

Brunsell, N.A., Jones, A. R., Jackson, T.L., and J. J. Feddema. 2008. Seasonal trends in air temperature and precipitation in IPCC AR4 GCM output for Kansas, USA: evaluation and implications. In review: *International Journal of Climatology*.

Feddema, J., Lawrence, P., Bauer, J, Jackson, T. A global land cover dataset for use in transient climate simulations. Accepted: *Journal of Applied Meteorology*

Wilkerson, F., Schmid, G. *et al.* 2007. *The Creation of Baranca de Caliza: Excavation of the Canyon Lake Spillway Gorge, Comal County Texas, July 2002.* Occasional Paper No. 2 of The James James and Marilyn Lovell Center for Environmental Geography and Hazards Research, Department of Geography, Texas State University, San Marcos, TX. Online: <http://www.geo.txstate.edu/lovell/publications/>

PRESENTATIONS

Jackson, T. "GIS and Urban Climate Modeling." Presented at The University of Kansas Department of Geography GIS Day and Symposium, 2008.

Speaker, University of Kansas Department of Geography Graduation, May 2008.

Jackson, T., P. Lin, J. Bauer, and J. Feddema. "Incorporating urban systems into global climate models: Part 2, parameterization." Presented at the Association of American Geographers Annual Meeting, 2006.

Jackson, T. and P. Lin. "On the verge of suburbia." Presented at The University of

Kansas Department of Geography GIS Day and Symposium, 2005.

Wilkerson, F.D., K. Patel, T.Jackson, and G.L. Schmid. "Volumetric measurements of erosion in the Canyon Lake spillway, south-central Texas." Presented at the Association of American Geographers Annual Meeting, 2004.

RESEARCH INTERESTS

Physical, chemical, and social aspects of climate change, especially biogeochemical cycles, soils, carbon sequestration, human adaptations to climate change, and the interactions relating these systems and processes. Dissertation work has begun on addressing the need for a comprehensive soil testing and remediation plan for urban soils to promote use of urban areas for edible gardening. Urban gardening is an example of a human response to climate change, as people seek to affect global environmental change by taking individual action.

PROFESSIONAL ORGANIZATIONS

- Association of American Geographers, 2005 to present
- Geological Society of America, 2006 to present
- Association of Women Geoscientists, 2008 to present

VOLUNTEER ACTIVITIES

- 2SenseWorth Global Children's Charity -- ongoing
- Remote Sensing Tutor – Lawrence, KS – Fall 2006
- Geography and Calculus Tutor – San Marcos, TX – 2000-01 school year
- Family Link – San Francisco, CA – summers 1993-94
- AIDS Walk - San Francisco, CA – summer 1993
- Big Brother Big Sister – Grinnell, IA – 1993-94 school year
- Sterling College basketball camp coach – summer 1991
- Food Bank – Sterling, KS – spring 1991
- Community basketball coach – springs 1989-91
- Girl Scouts of America Camp Counselor – summer 1987

FOREIGN TRAVEL

- Pacific coast of Mexico – summer 2002
- London, England – December 1999
- Vienna, Austria – December 1999
- Northern Mexico – summer 1996
- British Columbia, Canada – summer 1980