

## RYAN HILE – CURRICULUM VITAE

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### EDUCATION

University of Utah, Salt Lake City, UT

#### **M.S. in Geography**

Thesis: "Thinking Inside the Black Box: Enhancing the Social Vulnerability Index with Artificial Neural Networks"

**Expected Spring 2015**

Auburn University, Auburn, AL

#### **B.A. in Geography, Magna Cum Laude, Honors Scholar**

Areas of Concentration: Environmental Hazards, Social Vulnerability, GIS

Honors Thesis: "Earthquake Hazards and Social Vulnerability in Salt Lake County, Utah: A Case Study"

**2013**

### AWARDS

AAG Hazards, Risks, and Disasters Specialty Group Jeanne X. Kasperson Student Paper Award

**January 2015**

Auburn University College of Science and Mathematics – Dean's List (4.0)

**2011-2013**

Auburn University College of Science and Mathematics – Dean's Medal

**2013**

Auburn University Department of Geography – David W. Icenogle

Award for Outstanding Senior in Geography

**2011-2013**

Auburn University Honors College – Honors Scholar (Thesis)

**2013**

Auburn University Undergraduate Research Fellowship

Project Title: "Earthquake Hazards and Social Vulnerability in Salt Lake County, Utah: A Case Study"

Fellowship Award: \$6,000

**2012-2013**

### RELATED EXPERIENCE

DIGIT Lab – Department of Geography, University of Utah, Salt Lake City, UT

**Graduate Assistant/GIS Technician – Supervisor: Dr. Phoebe B. McNeally**

**2013 – Present**

Created and updated project data for several government and private projects.

Managed the creation of a country-wide pipeline geodatabase. Managed

a county-wide geodatabase of planning and infrastructure data.

Department of Geology and Geography, Auburn University, Auburn, AL

**Lab Assistant – Supervisor: Dr. David T. King**

**Spring 2013**

Aided in the instruction of students in the Concepts of Science course lab

(Course SCMH 1010). Responsible for helping a subset of students and

grading lab reports for the subset of students in two lab sections. Participated

in weekly organizational meetings to strategize lab instruction.

Auburn University, Auburn, AL

**Student Research Assistant – Supervisor: Dr. Kelly D. Alley**

**2012-2013**

Created and updated a geodatabase to store hydropower project locations

across the Tibetan Plateau. Created maps for publications. Developed a

data distribution strategy. Contributed writing to project publications.

- Knight Technologies, Inc., Gillette, WY  
**GIS Specialist – Supervisor: Craig Knight** **2011-2012**  
 Office Work: Created field maps, permit maps, and planning maps for coal and natural gas development.  
 Field Work: Operated RTK and DGPS surveying equipment to survey buried pipelines, collect topographic data, and set slope stakes for construction.
- Knight Technologies, Inc., Gillette, WY  
**GIS Specialist/Survey Technician – Supervisor: Craig Knight** **2005-2010**  
 Office Work: Created field maps, permit maps, and planning maps for coal and natural gas development. Created and managed company GIS standards. Managed survey data from field collection and processed the collection into GIS feature data. Managed CAD-GIS data interchange practices. Trained new employees in company GIS procedures. Developed remote office procedures and maintained a remote office location.  
 Field Work: Operated RTK and DGPS surveying equipment to collect field data for a variety of projects. Trained new employees in surveying techniques and surveying equipment operation. Conducted RKT-driven slope staking for construction.
- Knight Technologies, Inc., Gillette, WY  
**Intern – Supervisor: Craig Knight** **2003-2004**  
 Created basic project maps, digitized raster data, and expanded and curated company GIS base data library.

## PUBLICATIONS

- Alley, K. D., **R. Hile**, and C. Mitra. **(In Press)**. Visualizing Hydropower Across the Himalayas: Mapping in a Time of Regulatory Decline. *Himalaya, the Journal of the Association for Nepal and Himalayan Studies*.  
 Published by Himalaya, the Journal of the Association for Nepal and Himalayan Studies. Dartmouth College, Hanover, NH. **2014**
- Hile, R.** 2013. Earthquake Hazards and Social Vulnerability in Salt Lake County, Utah: A Case Study. Honors Thesis. Auburn University.  
 Auburn University Honors College Capstone Thesis. **2014**
- Hile, R.** and P. L. Chaney. 2013. Mapping Social Vulnerability for Earthquake Hazards in Salt Lake County, Utah. *Auburn University Journal of Undergraduate Scholarship* 2: 48-53.  
 Published by Auburn University Journal of Undergraduate Scholarship. Auburn University, Auburn, AL. **2013**
- Alley, K. D., C. Mitra, and **R. Hile**. 2012. Blocked Data Hampers Water Management Management Efforts in the GBM Basin. *Asia Pacific Memo*, University of British Columbia. <http://www.asiapacificmemo.ca/blocked-data-hampers-water-management-efforts-in-the-gbm-basin>.  
 Published by Asia Pacific Memo. Institute of Asian Research, University of British Columbia, Vancouver, Canada. **2012**

## PAPERS AND PRESENTATIONS

- Connolly, M. H., **R. Hile**, J. Stevens, E. Rentz, and S. Brewer. 2014. Comparing the Spatial Distribution of Texas Municipal Water Consumption Drivers using Linear and Non-linear Data Reduction Methods. Conference paper at SWAAG Annual Meeting. Albuquerque, NM. **2014**
- Hile, R.** and T. Alexander. 2014. Representing Wonder Woman: A Look at Sexualization and Empowerment in Contemporary Comics. Conference presentation at the AAG Annual Meeting. Tampa, FL. **2014**
- Hile, R.** 2013. Mapping Vulnerability to Earthquakes in Salt Lake County, Utah. Colloquium presentation at Auburn University Department of Geology and Geography. Auburn, AL. **2013**
- Hile, R.** and P. L. Chaney. 2013. [*abstract*]. Earthquake Place Vulnerability in Salt Lake County, Utah. Poster presentation at Auburn University Research Week. Auburn, AL. **2013**
- Alley, K. D., **R. Hile**, and C. Mitra. 2013. Transparency, GIS, and River Basin Management in the Ganga-Brahmaputra-Meghna Basin. Refereed proceedings for the International Conference on Water Resources of South Asia: Conflict to Cooperation. Dhaka, Bangladesh. **2013**
- Hile, R.** and P. L. Chaney. 2012. [*abstract*]. Earthquake Hazards and Social Vulnerability in Salt Lake County, Utah: A Case Study. Poster presentation at SEDAAG Annual Meeting. Asheville, NC. **2012**

## LANGUAGES AND COMPETENCIES

- English – native language
- German – speak, read, and write with basic competence
- R – competence in classical and geocomputational analytical methods
- ArcGIS – competence in map creation, spatial analysis, geodatabase functions, CAD-GIS data interchange, Python scripting, model builder, and feature data creation and management
- AutoCAD Map – competence in map creation, spatial analysis, geodatabase functions, CAD-GIS data interchange, LISP routines, scripting, and feature data creation and management
- ERDAS – competence in image geocorrection, resampling, and pixel-based image analysis
- eCognition – basic competence in object-based image analysis
- RTK Hardware (Leica, Trimble) – competence in setup, operation, and troubleshooting
- DGPS Hardware (Various) – competence in setup, operation, and troubleshooting
- Surveying – competence in topographic and feature survey methods

## SERVICE

- Hile, R.** 2012. Geography: The World at Your Fingertips. Invited lecture at Auburn High School Science Club. Auburn, AL. **2012**

MEMBERSHIPS

Phi Kappa Phi National Honor Society

Gamma Theta Upsilon (GTU) International Geographic Honor Society

Golden Key International Honor Society

Association of American Geographers