

# **Curriculum Vita**

Dennis Gilfillan  
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## **Educational Experience**

### **Degrees**

Ph.D. Environmental Health Sciences. East Tennessee State University. Johnson City, TN 2018

Master of Environmental Assessment. North Carolina State University. Raleigh, NC 2014

B.S. Physics-Secondary Education, minor in Mathematics. Appalachian State University. Boone, NC 2008

### **Graduate Certificates**

Mathematical Modeling in the Biosciences. East Tennessee State University. Johnson City, TN 2017

Geographic Information Systems. North Carolina State University. Raleigh, NC 2013

## **Teaching Experience**

### **Post-Secondary Education Experience**

*Instructor of Record – Human Ecology.* East Tennessee State University. Johnson City, TN 2016

*Lab Instructor-Biological Analysis in Environmental Health.* East Tennessee State University. Johnson City, TN 2015

*Lab Instructor-Environmental Analysis.* East Tennessee State University. Johnson City, TN 2015

*Advanced Placement Physics Instructor.* Mitchell High School. Bakersville, NC 2012 – 2014

### **Compulsory Education Experience**

*Lead Math Instructor.* Camp Spring Creek. Bakersville, NC, 2012 – 2014

*Upward Bound Tutor.* Mitchell High School. Bakersville, NC, 2010 – 2011

*Secondary Math and Physics Instructor.* Mitchell High School. Bakersville, NC, 2009 – 2014

*Secondary Math Instructor.* Rosman High School. Rosman, NC, 2008-2009

*University Tutor-Physics.* Department of Physics and Astronomy. Appalachian State University. Boone, NC 2005 - 2007

## Research Experience

*Graduate Research Assistant.* Environmental Health Sciences Laboratory.  
Supervisor: Brian Evanshen. East Tennessee State University. Johnson City, TN,  
2014 – Present

*Undergraduate Research Assistant.* Department of Physics and Astronomy.  
Supervisor: Dr. Tonya Coffey. Appalachian State University. Boone, NC 2006

## Research Interests

- Environmental Assessment, Education and Informatics
- Fecal Indicator Effectiveness and Human Health Risk
- Innovation in the Geographic Information Sciences
- Microbial Community Structure as an Early Indicator of Stream Impairment

## Awards and Honors

North Carolina Teaching Fellows Recipient, 2004 – 2008

## Publications

**Gilfillan D.** Joyner T. A. *Southeastern Salmonids Potential Distributions Based on Multiresolution Climate Data: Climate Change Predictions and Issues in Model Transferability.* To be submitted to PeerJ in December 2015.

## Presentations

**Gilfillan D.** Scheuerman P. Joyner. T. A. *Seasonal and Spatial effects on the Probability of Pathogenic Stream Impairment.* American Association of Geographer's Annual Meeting. San Francisco. 2016. Poster presentation.

**Gilfillan D.** Joyner T. A. *Data Resolution in distribution models of Southeastern Salmonid: thoughts on climate change and transferability.* Southeastern District of the American Association of Geographers' Annual Meeting. Pensacola. 2015. Poster Presentation.

Li Y. **Gilfillan D.** Zhang Y. West J. *Predicting Future Heat-Related Mortality in the United States Under Global Climate Change.* Society for Risk Analysis World Congress on Risk. Singapore. 2015. Poster Presentation.

**Gilfillan D.** Scheuerman P. *Utilizing a GIS Framework to Evaluate Landscape Influences on Fecal Pollution in the Watauga River Basin.* Appalachian Student Research Forum. Johnson City, Tennessee. 2015. Poster Presentation.

## Technical Reports

**Gilfillan D.** *Bioavailability of PAHs in Aquatic Systems Using Passive Sampling: An Informative Piece.* North Carolina State University: Technical Reports Repository. 2015.

## **Service**

*Graduate Representative*, Excellence in education committee, College of Public Health, East Tennessee State University, Johnson City, Tennessee, 2015

*Graduate Student Liaison*, Student Tennessee Environmental Health Association, East Tennessee State University, Tennessee 2015

## **Professional Societies and Memberships**

American Association of Geographers, 2015

Southeastern Division of American Association of Geographers, 2015

American Association for the Advancement of Science, 2015

Graduate Professional Student Association, East Tennessee State University, 2015

National Environmental Health Association, 2015

International Society of Environmental Information Sciences, 2014

Sigma Pi Sigma, Physics Honor Society, 2006

## **Professional Development**

### **Software Experience**

ArcGIS, Q-GIS, Maxent, Desktop GARP, Microsoft Office, R, BenMap, Python, MatLab

### **Teaching Licensure**

North Carolina Secondary Math

North Carolina Secondary Physics

## **Experimental Techniques**

Internally Coupled Plasma Mass Spectrometry, Flame Atomic Absorption

Spectrometry, Furnace Atomic Absorption Spectrometry, Scanning Tunneling

Microscopy, Atomic Force Microscopy