

## Curriculum Vitae

# Justin Timothy Maxwell

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Department of Geography  
The University of North Carolina at Greensboro  
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### Education

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#### **The University of North Carolina at Greensboro, Greensboro, NC– Ph.D. Candidate**

Doctor of Philosophy (Ph.D.) in Geography

Dissertation: *Beekeepers' Gold: Reconstructing Tupelo Honey in Northwest Florida Using Nyssa ogeche Tree-Ring Data.*

Advisor: Dr. Paul A. Knapp

#### **Appalachian State University, Boone, NC – 2008**

Master of Arts (M.A.) in Geography

Thesis: *Drought and Other Driving Forces behind Population Change in Rural Counties in the United States.*

Advisor: Dr. Peter T. Soulé

#### **Appalachian State University, Boone, NC – 2006**

Bachelor of Science (B.S.) in Business Administration (Concentration in Hospitality and Tourism and a Minor in Geography).

### Research Interests

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Climatology, Biogeography, Dendrochronology, and Forest Disturbances

### Professional Experience

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*NSF GK-12 Fellow*  
2011–Present

Departments of Biology, Chemistry and Biochemistry, and Geography, The University of North Carolina at Greensboro. Funded by the National Science Foundation to improve the teaching of science at a elementary, middle, and high school in High Point, N.C. The broader objective of the project was to investigate the biological, chemical, physical, health-related, and socioeconomic effects of changing land use patterns in the region.

<p><i>NADEF Research Fellow</i> 2011–2012</p>	<p>North American Dendroecological Fieldweek. Funded by the National Science Foundation to provide an intensive learning experience in dendrochronology. Fellows' responsibilities include: present fieldweek projects at professional conferences and write-up and submit final project report for peer-reviewed publication.</p>
<p><i>Adjunct Instructor</i> 2011</p>	<p>Department of Social Sciences, Winston-Salem State University. Taught lecture section of Justice 4342 (Technological Analysis). The course material included a combination of introductory and advanced techniques in GIS using ESRI software program ArcGIS.</p>
<p><i>Instructor and Research Assistant</i> 2009–2011</p>	<p>For “Radial Growth Response amount Naturally- Occurring Western U.S. Conifers under Changing Environmental Conations” funded by the National Science Foundation, Principal investigators: Paul Knapp and Peter Soulé. Assisted in collection and preparation of tree-ring cores and created master chronologies from douglas fir, ponderosa, and sub-alpine larch. Taught lecture section of Geography 103 (Introduction to Earth Science).</p>
<p><i>Research Assistant</i> 2009–2010</p>	<p>For “Doctoral Dissertation Research: Use of Tree-Ring Data to Reconstruct and Predict Maple Syrup Production in New York” funded by National Science Foundation, Principal investigators: William Tyminski and Paul Knapp. Assisted in collection and preparation of sugar maple tree-ring cores.</p>
<p><i>Laboratory Instructor and Research Assistant</i> 2008–2009</p>	<p>Department of Geography, The University of North Carolina at Greensboro. Taught lab sections for Geography 106 (Geosystems Science) and Geography 111 (Physical Geology), assisted in the GIS laboratory, and the in collection and preparation of tree-ring cores and created a master chronology from sitka spruce for the Carolina Tree-Ring Science Laboratory.</p>
<p><i>Teaching/Research Assistant</i> 2006–2008</p>	<p>Department of Geography and Planning, Appalachian State University. <b>Teaching responsibilities</b> included lecturing Introduction to Physical Geography class, updating GIS labs for the Geographical Hydrology class, and grading. <b>Research responsibilities</b> included assisting in the collection of tree cores in the field, mounting and preparing tree cores, and cross-dating cores, (Dendroecology Laboratory).</p>

## Publications

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- In Press **J.T. Maxwell** and Knapp, P.A. Reconstructed tupelo-honey yield in northwest Florida inferred from *Nyssa Ogeche* tree-ring data: 1850–2009. *Agriculture, Ecosystems, and Environment*.
- In Press **J.T. Maxwell**, Soulé, P.T., Ortégren, J.T., and Knapp, P.A. Drought busting tropical cyclones in the southeastern Atlantic United States. *Annals of the Association of American Geographers*. doi: 10.1080/00045608.2011.596377.
- 2011 J.T. Ortégren, Knapp, P.A., **Maxwell, J.T.**, Tyminski, W.P., and Soulé, P.T. Ocean-atmosphere influence on low-frequency warm-season drought variability in the Gulf Coast and Southeastern U.S.A. *Journal of Applied Meteorology and Climatology* 50 (6): 1177–1186.
- 2011 **J.T. Maxwell**, Soulé, P.T. Drought and other driving forces behind population change in six rural counties in the United States. *Southeastern Geographer* 51 (1): 133–149.
- 2009 **J. T. Maxwell** and Soulé, P.T. United States drought of 2007: Historical perspectives. *Climate Research* 38 (2): 95–104.

## Submitted Manuscripts

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- 2011 **J.T. Maxwell**. Potential for Multifunctionality in the U.S. Honey and Apiculture Industry. *The International Journal of Agricultural Sustainability*. (Revise and resubmit:: submitted 20 Sept. 2011).
- 2011 S.M. Walcott, **Maxwell, J.T.**, and Tyminski, W.P. Agricultural transition, emerging products and practices: spotlight on specialty crops. *Geoforum*. (Submitted: May 2011)

## Manuscripts in Preparation

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**J.T. Maxwell**, Harley, G.L., Holt, D.H., Garland, N.A., Apsher, C., B. Beale, B.J., Boehm, M.S., Dye, A.W., de Graauw, K.A., Rautio, A. and Grissino-Mayer, H.D. Techniques of dendroarchaeology reveal the construction history of an early 19th century settlement compound, southwestern Virginia, USA. Target Journal: *Journal of Archaeological Science*. (Currently prepared: 29 pages, 5 tables, and 5 figures. Plan on submitting in Dec. 2011).

## Presentations at Professional Meetings

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- Nov. 2011 **J.T. Maxwell.** Examining tupelo honey yield decline using *Nyssa ogeche* tree-rings. *Sixty-Sixth Annual Meeting of the Southeastern Division of the Association of American Geographers*, Savannah, GA.
- Nov. 2011 D. H. Holt, **Maxwell, J.T.**, Garland, N.A., Harley, G.L., Apsher, C., Beale, B.J., Boehm, M.S., de Graauw, K.A., Rautio, A., Grissino-Mayer, H.D. Using trees to date structures on the Anderson-Doosing Farm, Roanoke, Virginia. *Sixty-Sixth Annual Meeting of the Southeastern Division of the Association of American Geographers*, Savannah, GA.
- Nov. 2011 S. Walcott, **Maxwell, J.T.**, and Tyminski, W.P. Transition in American agriculture: specialty crops with a conscience. *Sixty-Sixth Annual Meeting of the Southeastern Division of the Association of American Geographers*, Savannah, GA.
- Apr. 2011 **J.T. Maxwell** and Knapp, P.A. Reconstructing honey yield from *Nyssa ogeche* tree-rings in Northwest Florida: a preliminary analysis. *Annual Meeting of the Association of American Geographers*, Seattle, WA.
- Nov. 2010 **J.T. Maxwell.** A preliminary analysis of the utility of tree-rings from *Nyssa Ogeche* to reconstruct tupelo honey yield in Northwest Florida. *Sixty-Fifth Annual Meeting of the Southeastern Division of the Association of American Geographers*, Birmingham, AL. (Poster)
- Oct. 2010 W.P. Tyminski, Farrell, M.L., and **Maxwell, J.T.** A comparison of untapped and tapped sugar maple tree growth: A dendrochronological approach. *Annual Meeting of the North American Maple Syrup Council*, Stratford, Ontario, Canada. (Poster)
- Apr. 2010 **J.T. Maxwell.** An assessment of the dendrochronological utility of *Nyssa ogeche*. *Annual Meeting of the Association of American Geographers*, Washington DC.
- Apr. 2010 J.T. Ortégren, Knapp, P.A., **Maxwell, J.T.**, and Soulé, P.T. Homogenous summer drought regions in the contiguous U.S.A., and their relative susceptibility to multi-year sustained drought events: A synoptic “safety net” protecting the Southeast and the eastern Gulf Coast? *Annual Meeting of the Association of American Geographers*, Washington DC.
- Nov. 2009 **J.T. Maxwell**, Soulé, P.T., Knapp, P.A., Ortégren, J.T. and Sufficool, M. Drought-busting tropical cyclones in the southeastern Atlantic United States: 1950–2008. *Sixty-Fourth Annual Meeting of the Southeastern Division of the Association of American Geographers*, Knoxville, TN.

- Nov. 2009 J.T. Ortegren, Knapp, P.A., **Maxwell, J.T.**, and Soulé, P.T. Homogenous summer drought regions in the contiguous U.S.A. and their relative susceptibility to multi-year sustained drought events. *Sixty-Fourth Annual Meeting of the Southeastern Division of the Association of American Geographers*, Knoxville, TN.
- Mar. 2009 **J.T. Maxwell** and Soulé, P.T. How does the United States drought of 2007 compare historically? *Annual Meeting of the Association of American Geographers*, Las Vegas, NV. (Poster)
- Nov. 2008 **J.T. Maxwell**. Drought and other driving forces behind population change in rural counties in the United States. *Sixty-Third Annual Meeting of the Southeastern Division of the Association of American Geographers*, Greensboro, NC.
- Apr. 2008 **J.T. Maxwell**. Drought in the United States during 2007: historical perspective versus media attention. *Eleventh Annual Celebration of Student Research and Creative Endeavors*, Boone, NC. (Poster)

### **Invited Presentations**

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- Oct. 2011 J. T. Maxwell. Tree-Ring Growth and Tupelo Honey Production. *Ninety-First Annual Convention of the Florida State Beekeepers Association*, Orlando, FL.
- Oct. 2011 J. T. Maxwell. *Nyssa ogeche* tree-rings, tupelo honey and ARSTAN. *Seminar in Tree-Ring Research*, Appalachian State University, Boone, NC.
- Jul. 2010 J. T. Maxwell. The Health of the white tupelo (*Nyssa ogechee*). *Lion's Club*, Donalsonville, GA.

### **Courses Taught**

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Justice 4342 – Technological Analysis (Introduction and Advanced GIS)  
 Geography 103 – Introduction to Earth Science  
 Lab section of Geography 106 – Geosystems Science  
 Lab Section of Geography 111 – Physical Geology

### **Grants, Honors, and Awards**

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- 2011–2012 *GK-12 Fellowship*, National Science Foundation, **\$30,000**.
- 2011–2012 *NADEF Research Fellowship*, National Science Foundation, **\$3,000**

- 2011 *Honorable Mention, Graduate Student Honors Paper Competition (Ph.D.)*  
Southeastern Division of the Association of American Geographers.
- 2011 *Graduate School Summer Research Assistantship, University of North Carolina at Greensboro, \$2,000.*
- 2011 *Professional Development Fund. University of North Carolina at Greensboro. \$400.*
- 2010 *Professional Development Fund. University of North Carolina at Greensboro. \$400.*
- 2010 *Graduate School Summer Research Assistantship, University of North Carolina at Greensboro, \$2,000.*
- 2009 *Nominee, Cratis D. Williams Thesis Award, Appalachian State University*
- 2007–2008 *Julian Yoder Scholarship, Department of Geography and Planning, Appalachian State University. \$500.*

### **Professional Service and Community Outreach**

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- 2011 Taught the techniques of dendrochronology and conducted tree-ring analysis for a science fair project of a local elementary student.
- 2011 Panelist. “Whither Rural Geography? Future Directions.” Annual Meeting of the Association of American Geographers, Seattle, WA.
- 2010 Session chair. Annual Meeting of the Association of American Geographers. Washington D.C.
- 2010 Assisted in determining the age of an historical park tree for the Guilford Courthouse National Military Park.
- 2009 Determined the calendar year of construction for a barn in Asheboro, N.C. using dendrochronological techniques.
- 2009 Demonstrated the uses of tree-ring science to a Boy Scout troop in Greensboro, N.C.

## **Manuscript Reviewer**

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Journal of Ecology

## **Memberships**

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Association of American Geographers

    Biogeography Specialty Group

    Climate Specialty Group

Southeastern Division of the Association of American Geographers

The American Association for the Advancement of Science