

# Thomas M. Saladyga

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## Education

Ph.D. Geography	West Virginia University (2011)
M.A. Geography	West Chester University of Pennsylvania (2006)
B.S. Geography	The Pennsylvania State University (2002)

## Employment

2011 – Present	<b>Assistant Professor</b> , Department of Geography, Concord University, Athens, WV
2008 – 2011	<b>Graduate Research Assistant</b> , Montane Forest Dynamics Lab, Department of Geology & Geography, West Virginia University, Morgantown, WV
2008	<b>Forestry Technician</b> , Eastern Rivers and Mountains Network, Inventory and Monitoring Program, National Park Service
2007 – 2008	<b>Teaching Assistant/Lab Instructor</b> , Department of Geology & Geography, West Virginia University, Morgantown, WV
2007	<b>GIS Specialist (contract)</b> , Delaware Department of Natural Resources & Environmental Control, Division of Fish and Wildlife, Dover, DE
2006 – 2007	<b>Wetland Technician</b> , Delaware Department of Natural Resources & Environmental Control, Watershed Assessment Section, Dover, DE
2005	<b>GIS Specialist (contract)</b> , Delaware Department of Natural Resources & Environmental Control, Division of Fish and Wildlife, Dover, DE
2004 – 2005	<b>Environmental Scientist</b> , Environmental Alliance, Inc., Wilmington, DE
2004	<b>Biological Science Technician – Fire-effects Monitor</b> , Ozark National Scenic Riverways, National Park Service, Van Buren, MO
2003 – 2004	<b>Environmental Scientist</b> , Environmental Alliance, Inc., Wilmington, DE
2001	<b>Research Technician</b> , Vegetation Dynamics Lab, Department of Geography, The Pennsylvania State University, University Park, PA

## Teaching

Courses taught at Concord University:

GEOG 101: Human Geography (*Spring 2012*)  
GEOG 200: Physical Geography (*Fall/Spring/Summer 2011 – present*)  
GEOG 250: Mountain Geography (*Spring 2014/2016*)  
GEOG 300: Sustainable Development (*Fall 2011; Spring 2013 – 2016*)  
GEOG 311: Cartography (*Fall 2012 – 2016*)  
GEOG 340: Geography of Soils (*Fall 2013/2015*)  
GEOG 360: Meteorology & Climatology (*Spring 2013/2015*)  
GEOG 380: Biogeography & Environmental Change (*Fall 2012/2014/2016*)  
GEOG 411: Geographic Information Systems (*Fall 2011*)  
GEOG 412: Advanced GIS (*Spring 2012*)  
GEOG 460: Dendrochronology (*Summer 2014*)  
GEOG 460: Environmental Field Geography (*Summer 2013/2015*)  
GEOG 460: Geographic Data Analysis (*Fall 2013*)  
GEOG 465: Geography Capstone (*Spring 2012/2013/2014*)

Courses taught at West Virginia University:

GEOG 106: Physical Geography Lab (*Spring 2008*)  
GEOG 407: Environmental Field Geography (*Fall 2010*)

Undergraduate mentor, Montane Forest Dynamics Lab, Department of Geology and Geography, West Virginia University, 2007 – 2011

Athletic Department Tutor, Physical Geography (GEOG 107) and Environmental Geoscience (GEOG 110), West Virginia University, 2007 – 2009

Guest lectures at WVU: “Volcanoes” – Physical Geography, GEOG 107, Spring 2008; “Species diversity” – Biogeography, GEOG 307, Spring 2009 ; “Global forest types” – Global Forest Resources, FOR 425, Spring 2011

## Peer-Reviewed Publications

**Saladyga, T.** *In review.* Reconstructing a Cultural Fire Regime in the Pennsylvania Anthracite Region. *Physical Geography*.

**Saladyga, T.** *In press.* Forest Disturbance History from ‘Legacy’ Pitch Pine (*Pinus rigida*) at the New River Gorge, West Virginia. *Natural Areas Journal*.

Hessl, A.E., P. Brown, O. Byambasuren, S. Cockrell, C. Leland, Cook, E., B. Nachin, N. Pederson, **T. Saladyga**, and B. Suran. 2016. Fire and Climate in Mongolia (1532-2010 CE). *Geophysical Research Letters*. 43(12): 6519-6527. [PDF](#)

**Saladyga, T.** and R.S. Maxwell. 2015. Temporal Variability in Climate Response of Eastern Hemlock in the Central Appalachian Region. *Southeastern Geographer*. 55-2: 143-163. [PDF](#)

**Saladyga, T.**, A.E. Hessler, N. Pederson, and B. Nachin. 2013. Privatization, Drought, and Fire Exclusion in the Tuul River Watershed, Mongolia. *Ecosystems*. 16: 1139-1151. [PDF](#)

Pederson, N., C. Leland, B. Nachin, A.E. Hessler, A.R. Bell, D. Martin-Benito, **T. Saladyga**, B. Suran, P.M. Brown, and N.K. Davi. 2012. Three Centuries of Shifting Hydroclimatic Regimes Across the Mongolian Breadbasket. *Agriculture and Forest Meteorology*. 178-179: 10-20. [PDF](#)

Hessler, A.E., P. Brown, U. Ariya, O. Byambasuren, T. Green, G. Jacoby, E. Kennedy-Sutherland, B. Nachin, R. Maxwell, N. Pederson, L. De Grandpré, **T. Saladyga**, and J. C. Tardif. 2011. Reconstructing Fire History in Central Mongolia from Tree-Rings. *International Journal of Wildland Fire*. 21: 86-92. [PDF](#)

Hessler, A.E., **T. Saladyga**, T. Schuler, P. Clark, and J. Wixom. 2011. Fire History from Three Species on a Central Appalachian Ridgetop. *Canadian Journal of Forestry*. 41: 2031-2039. [PDF](#)

## Other Publications

**Saladyga, T.** 2011. Land Use and Climate Impacts on Fire Regimes and Forest Regeneration in the Upper Tuul River Watershed, Mongolia. Doctoral Dissertation, West Virginia University, Morgantown, West Virginia. Dr. Amy Hessler, advisor.

Nanticoke Restoration Work Group (**T. Saladyga** – GIS support). 2009. Nanticoke River Watershed Restoration Plan. Delaware Department of Natural Resources and Environmental Control and US Environmental Protection Agency Wetland Program.

Allen, O., B. Barkus, and K. Bennett (**T. Saladyga** – GIS support). 2006. Delaware Wildlife Action Plan: 2007-2017. Delaware Natural Heritage and Endangered Species Program, Delaware Division of Fish and Wildlife, Department of Natural Resources and Environmental Control.

**Saladyga, T.** 2006. Native Understory and Invasive Plant Response to Fire in a Mixed-Hardwood Forest, Chester County, Pennsylvania. Master's thesis, West Chester University, West Chester, Pennsylvania. Dr. Joan M. Welch, advisor.

## Paper Presentations

**Saladyga, T.** 2016. Fire History of a Globally Rare Ridgetop Acidic Barrens Complex. Annual Meeting, American Association of Geographers, March 29-April 2, 2016, San Francisco, California.

**Saladyga, T.** 2015. Tree Rings Record Industrial Decline at the New River Gorge, West Virginia. Annual Meeting, Southeastern Division of the Association of American Geographers, 22-24 November 2015, Pensacola, Florida.

**Saladyga, T.** 2014. Dead Tree Walking: The Past, Present, and Future of Hemlock Forests in Central Appalachia. 37<sup>th</sup> Annual Appalachian Studies Association Conference, March 28-30, 2014, Huntington, West Virginia.

**Saladyga, T.** and R.S. Maxwell. 2013. Growth Response of Eastern Hemlock to Rapid Climate Warming in Central Appalachia. Annual Meeting, Southeastern Division of the Association of American Geographers, 24-26 November 2013, Roanoke, Virginia.

**Saladyga, T.** 2013. Using Tree Rings to Reconstruct Forest Histories at Pipestem Resort State Park, West Virginia. 16<sup>th</sup> Biennial Conference on Appalachian Geography and Geography Education, 15-16 March 2013, Pipestem Resort, West Virginia.

**Saladyga, T.,** A. Hessler, B. Nachin, and N. Pederson. 2012. Will Rising Temperatures, Prolonged Drought and Land Use Intensification Inhibit Wildfire? A Case Study from the Forest-Steppe Ecotone, Mongolia. Mongolian Ecological Research Symposium, 25 February 2012, Jacques Cousteau National Estuarine Research Reserve, Tuckerton, New Jersey.

**Saladyga, T.** and N. Pederson. 2011. Tree-Ring Based Drought Reconstruction for the Central Khan Khentii Mountains, Mongolia (1675-2000). Annual Meeting, Southeastern Division of the Association of American Geographers, 20-22 November 2011, Savannah, Georgia.

**Saladyga, T.** and A. Hessler. 2011. Fire History at Pike Knob, West Virginia (and Other Unique Locales). Annual Meeting, Central Appalachians Fire Learning Network, 28-30 June 2011, The Mountain Institute at Spruce Knob, West Virginia.

Hessler, A., P. Brown, N. Pederson, B. Nachin, **T. Saladyga\***, and B. Suran. 2010. Fire History in Mongolia: Placing Current Change in the Context of the Last 400+ years. Annual Meeting, Association of American Geographers, 14-18 April 2010, Washington, D.C. \*Presenter

Leland, C., N. Pederson, A. Hessler, P. Brown, B. Nachin, **T. Saladyga**, and B. Suran. 2010. Fire and Climate Interactions in Northeastern Mongolia. Annual Meeting, Association of Southeastern Biologists, 7-10 April 2010, Asheville, North Carolina.

Hessler, A., P. Brown, S. Maxwell, B. Nachin, N. Pederson, and **T. Saladyga**. 2009. Fire, Climate, and Land Use in Mongolia: 400+ Years of Change. Annual Meeting, Association of American Geographers, 22-27 March 2009, Las Vegas, Nevada.

Welch, J. and **T. Saladyga**. 2008. Fire in the Woods: Native and Invasive Plant Response. 2008. Annual Meeting, Association of American Geographers, 15-19 April 2008, Boston, Massachusetts.

LaForest, L., P. Brown, N. Benzing, R. DeSantis, G. Dillon, W. Flatley, H.D. Grissino-Mayer, C. Lafon, **T. Saladyga**, J. Slayton, L. Svenson, K. Tackett, and N. Toth. 2008. Fire History in Old-Growth Pine-Oak Forest Stands Along Gold Mine Trail in the Great Smoky Mountains National Park, Tennessee. Annual Meeting, Association of American Geographers, 15-19 April 2008, Boston, Massachusetts.

Jacobs, A., E. Rehm, and D. Fillis (**T. Saladyga** – GIS support). 2007. Delaware's wetland monitoring program: using science to inform protection and restoration efforts. Delaware Estuary Science Conference, 22-24 January 2007, Cape May, New Jersey.

**Saladyga, T.** 2006. Native and Invasive Plant Response to Fire: Hardwood Forest of Chester County, Pennsylvania. Annual Meeting, Middle States Division of the Association of American Geographers, 13-14 October 2006, Rutgers University, New Brunswick, New Jersey.

**Saladyga, T.** 2006. Invasive Plant Dynamics as Related to Forest Structure and Composition at Hibernia County Park, Chester County, PA. Annual Meeting, Association of American Geographers, 7-11 March 2006, Chicago, Illinois.

**Saladyga, T.** 2005. Forests Lost: Invasive Vegetation and Implications for Native Habitat Restoration Through Oak Regeneration. Annual Meeting, Middle States Division of the Association of American Geographers, 14-15 October 2005, Chautauqua, New York.

## **Poster Presentations**

Raso, C. and **T. Saladyga**. 2016. Climate Response of Two Central Appalachian Rimrock Yellow Pine Species using a Composite Growth Chronology. Annual Meeting, American Association of Geographers, March 29-April 2, 2016, San Francisco, California.

**Saladyga, T.** 2014. Differential Growth Response of Two Conifer Species to Early Spring Temperature. Annual Meeting, Southeastern Division of the Association of American Geographers, 23-25 November 2014, Athens, Georgia.

**Saladyga, T.** 2013. Students Monitoring the Decline of Eastern Hemlock (*Tsuga canadensis* L.) in the Bluestone River Gorge, West Virginia. Second American Dendrochronology Conference, 13-17 May 2013, Tucson, Arizona.

**Saladyga, T.** 2012. Using Literature to Teach Post-Secondary Introductory Physical Geography. Annual Meeting, National Council for Geographic Education, 4-7 October 2012, San Marcos, Texas.

**Saladyga, T.** and A. Hessel. 2011. Fire History along a Human Impact Gradient in the Upper Tuul River Watershed, Mongolia. Annual meeting, American Association for the Advancement of Science, 17-21 February 2011, Washington, D.C.

**Saladyga, T.**, Hessler, A., P. Brown, N. Pederson, B. Nachin, and B. Suran. 2010. Climate, Fire, and Land Use Interactions in the Upper Tuul River Watershed, Mongolia. Annual Meeting, Association of American Geographers, 14-18 April 2010, Washington, D.C.

**Saladyga, T.**, P. Clark, A. Hessler, and J. Wixom. 2010. Anthropogenic Fire and Regeneration of an Isolated Red Pine (*Pinus resinosa*) Stand, Pike Knob, West Virginia. Annual Meeting, Association of American Geographers, 14-18 April 2010, Washington, D.C.

## **Professional Service**

West Virginia State Representative, Southeastern Division of the Association of American Geographers (2013 – present)

New River Conservancy, Technical Advisory Committee (2015 – present)

West Virginia Green Infrastructure Working Group (2011 – 2015)

Reviewer – *Castanea* [Journal of the Southern Appalachian Botanical Society] (2016)

Reviewer – *Forestry: An International Journal of Forest Research* (2016)

Reviewer – *Geographical Bulletin* (2014)

Reviewer – *Arctic, Antarctic, and Alpine Research* (2013)

## **Service at Concord University**

Faculty Development Committee (2014 – present)

Faculty Committee on Research (2014 – present)

Faculty Evaluation Committee – Division of Social Sciences (2012 – present)

Website Designer – West Virginia Geographic Alliance (2012 – present)

Website Designer – Department of Geography (2011 – present)

ADA Sidewalk Committee (2013 – 2014)

McNair Scholar Advisor – Mary Beth Ryan, class of 2015

Reader – West Virginia State National Geographic Bee (2012, 2013, 2014)

Reader – West Virginia High School Geography Bowl (2012, 2013)

## **Lectures and Workshops**

Learning Activity – “Dendrochronology” (4<sup>th</sup> grade students), New River Gorge National River, WV (September 16, 2016)

Inventory Leader – National Geographic BioBlitz, Harpers Ferry National Historical Park, WV (May 20-21, 2016)

Invited Speaker – “Coalfields Pyrogeography: Current and Future Research in Pennsylvania and West Virginia,” Department of Geography Colloquium Series, Virginia Polytechnic Institute and State University, Blacksburg, VA (April 15, 2016)

Lecturer – Teaching Environmental Processes through Literature Workshop, Concord University, Athens, WV (July 8-12, 2013)

West Virginia Geographic Alliance Workshop – “Forest Geography,” Concord University, Athens, WV (March 10, 2013)

Invited Speaker – “Land Use Impacts on Wildfire Potential: Evidence from Mongolia and Appalachia,” Department of Geography Colloquium Series, Virginia Polytechnic Institute and State University, Blacksburg, VA (October 19, 2012)

Learning activity – “What Can Trees Tell Us About the Past?,” Elk Center Elementary School, Charleston, WV (October 12, 2012)

International Summer Camp Guest Lecturer – “Humans and the Forest Environment,” Kangwon National University, Chuncheon, Gangwon-do, Republic of Korea (July 31, 2012)

Career Day – PikeView Middle School, Princeton, WV (May 25, 2012)

National Geographic Chesapeake Bay Watershed Education Meeting – Annapolis, MD (May 21-22, 2012)

West Virginia Geographic Alliance Workshop – “Geography of Agriculture,” Mount View High School, Welch, WV (April 28, 2012)

West Virginia Geographic Alliance Workshop – “Physical Geography,” Wheeling Park High School, Wheeling, WV (Nov. 5, 2011)

Appalachian Fire Learning Network Workshop – The Mountain Institute at Spruce Knob, WV (June 28-30, 2011)

North American Dendroecology Fieldweek (2007)

## **Awards/Grants**

Joseph Friedl Award, 2014, presented by the Student Government Association (SGA), Concord University

Chesapeake Bay Science and Geography Initiative, 2012-2014 (\$200,000), National Oceanic and Atmospheric Administration/National Geographic Society

Faculty Summer Research Fellowship, 2013 (\$3,651), Concord University

Exploration and Field Research Grant, 2010 (\$3,000), Explorer's Club Washington Group, Inc.

Vehse Travel Award, 2009 (\$500), Eberly College of Arts and Sciences, West Virginia University

## **Affiliations and Certifications**

American Association of Geographers (AAG)

Southeastern Division of the Association of American Geographers (SEDAAG)

Natural Areas Association

Gamma Theta Upsilon (International Geographical Honor Society)

Firefighter Type 2 (Courses: I-100, S-130, S-190, and L-180)

## **Graduate Committee Member**

Ruth Stetler, M.A. Geography, West Virginia University (expected graduation, 2017)

Thesis title: *Radial Growth Patterns in Trees Surviving Windthrow*

## **Undergraduate Research Advisees**

Samantha Richards, Geography, Concord University (class of 2016)

*Qualitative Assessment of Palustrine Wetlands in Mercer County, West Virginia.*  
Undergraduate Research Day, Concord University, 14 April 2016, Athens, West Virginia.

Caitlin Testerman, Geography, Concord University (class of 2016)

*Bird Species Composition in a Ridgetop Dwarf-Tree Forest.* Undergraduate poster competition (1<sup>st</sup> Place), Annual Meeting, Southeastern Division of the Association of American Geographers, 22-24 November 2015, Pensacola, Florida.

Chance Raso and Terry Hatfield, Geography, Concord University (class of 2015)

*Growth Chronology Development for Pitch Pine at Babcock State Park, West Virginia.* Undergraduate Research Day, Concord University, 16 April 2015, Athens, West Virginia.

Mary Beth Ryan, Geography, McNair Scholar, Concord University (class of 2015)

*Hemlock Establishment and Vigor in Twin Falls Resort State Park, West Virginia.* Undergraduate poster competition, Annual Meeting, Southeastern Division of the Association of American Geographers, 24-26 November 2013, Roanoke, Virginia.

Nathan Lawrence, Geography, Concord University (class of 2014)

*Climate-Growth Analysis of Northern Red Oak on a Southern West Virginia Ridgeline.* Undergraduate poster competition (1<sup>st</sup> Place), Annual Meeting, Southeastern Division of the Association of American Geographers, 23-25 November 2014, Athens, Georgia.

*Disturbance and Growth Dynamics in a Hemlock-Hardwood Forest on the Central Appalachian Plateau.* Undergraduate poster competition, Annual Meeting, Southeastern Division of the Association of American Geographers, 24-26 November 2013, Roanoke, Virginia.

Joshua Gelinas, Geography, Concord University (class of 2014)

*Climate Effects on the Growth of Eastern Hemlock in Cabwaylingo State Forest, West Virginia.* Undergraduate poster competition, Annual Meeting, Southeastern Division of the Association of American Geographers, 24-26 November 2013, Roanoke, Virginia.

Wendy Pace, Craig Pritt, and Meredith Smith (Class of 2013, 2013, and 2014, respectively)

*Age Structure Analysis of Eastern Hemlock at Pipestem State Park, West Virginia.* Undergraduate Research Day at the Capitol, 28 February 2013, Charleston, West Virginia.