

## CURRICULUM VITAE

# Narcisa G. Pricope

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**DIRECTOR, SOCIO-ENVIRONMENTAL ANALYSIS LAB**  
**PROGRAM DIRECTOR, USGIF-ACCREDITED GEOINT**  
**CERTIFICATE AT UNCW**

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## RESEARCH INTERESTS

I am a geographer who uses geospatial modeling, remote sensing and unmanned aerial systems to work at the food-water-energy nexus at multiple spatio-temporal scales. I focus on complex socio-ecological systems dynamics, especially centered on environmental variability and the vulnerability of populations to environmental extremes. Much of my work is concentrated in the drylands of eastern and southern Africa and Peru, where I collaborate with diverse stakeholders to integrate geospatial modeling with socio-economic indicators to study coupled human-natural systems.

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## EDUCATION

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- UNIVERSITY OF FLORIDA. Gainesville, Florida, USA **May 2006 – December 2011**  
*Department of Geography and Environmental Engineering*  
**PhD** – Geography (NSF IGERT Associate). GPA: 3.96  
*Minor: Environmental Engineering - Adaptive Watershed Management*  
PhD dissertation title: *Using Remote Sensing to Create Indicators of Ecosystem Variability for a Semi-Arid Transboundary Watershed in the Kavango-Zambezi Region of Southern Africa.*
- WESTERN KENTUCKY UNIVERSITY. Bowling Green, Kentucky **August 2004 – May 2006**  
*Department of Geography and Geology*  
**Master of Science** – Geosciences. GPA: 4.0  
M.Sc. thesis: *Modeling Soil Erosion in the Upper Green River Basin, Kentucky.*  
**Geographic Information Science Certificate**
- BABES-BOLYAI UNIVERSITY. Cluj-Napoca, Romania **October 2000 – July 2004**  
*Department of Geography*  
**Bachelor of Arts** – double-major: Geography and English. GPA: 3.78  
Valedictorian – 1<sup>st</sup> in a class of ~200. (Magna cum laude)  
Undergraduate honors thesis: *Assessment of reactivation risk for Holocene-age landslides in the Transylvanian Plateau, Romania.*
- UNIVERSITY OF GLASGOW. Glasgow, Scotland, UK **October – December 2002**  
*Department of Geography*  
EU Socrates-Erasmus International Exchange Student  
Full-time scholarship, emphasis Geomorphology and GIS.
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**PROFESSIONAL EXPERIENCE**

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**Associate Professor** **July 2017 – Present**  
Department of Earth and Ocean Sciences, University of North Carolina Wilmington

**Director** **August 2018 - Present**  
 United States Geospatial Intelligence Foundation (USGIF) accredited  
 undergraduate and graduate Certificate in Geospatial Intelligence at UNCW

**Assistant Professor, Tenure-Track** **August 2013 – May 2017**  
Department of Earth and Ocean Sciences, University of North Carolina Wilmington

**Courses taught**

GGY429/529	Aerial Drone Applications in Geosciences	<b>Fall 2018</b>
GEO 592	UAS-Based Field Research	<b>Fall 2017</b>
GGY 522	Remote Sensing in Environmental Analysis	<b>Every spring</b>
GGY 473	Environmental Land Use Planning	<b>Spring 2015, Fall 2017</b>
GGY 281	Introduction to Geographic Information Science in Environmental Sciences	<b>Every semester</b>
GGY 475/575	Water Resources: Science & Policy	<b>Fall 2014, 2016, 2018</b>
GGY 435/535	Human Footprint on the Landscape/Environmental Geog.	<b>Spring 2014</b>

**Assistant Professor, Tenure-Track** **September 2010 – June 2013**  
Environmental Studies Department, Southern Oregon University

**Watershed Science Concentration**

	ES 453/553	Remote Sensing of the Environment	<b>Spring 2013</b>
	ES 435/535	Water Resources	<b>Spring 2013</b>
	ES 451/551	Introduction to Geographic Information Science	<b>Winter 2013</b>
	ES 112	Earth Science II	<b>Winter 2013</b>
<i>2 sections</i>	ES 112	Earth Science II Lab	<b>Winter 2013</b>
	ES 481	Geomorphology	<b>Fall 2012</b>
	ES 111	Introduction to the Physical Environment I	<b>Fall 2012</b>
<i>2 sections</i>	ES 111	Intro. Phys. Env. I Lab	<b>Fall 2012</b>
	ES 453/553	Remote Sensing of the Environment	<b>Spring 2011</b>
	ES 435/535	Water Resources	<b>Spring 2011</b>
	G 341	Sedimentology	<b>Winter 2011</b>
	ES 112	Earth Science II	<b>Winter 2011</b>
<i>2 sections</i>	ES 112	Earth Science II Lab	<b>Winter 2011</b>
	ES 481	Geomorphology	<b>Fall 2010</b>

	ES 111	Introduction to the Physical Environment I	<b>Fall 2010</b>
<i>2 sections</i>	ES 111	Intro. Phys. Env. I Lab	<b>Fall 2010</b>

**Visiting/Postdoctoral Researcher**

**September 2011 – December 2012**

Department of Geography, University of California Santa Barbara

Remote sensing, climate change and population vulnerability mapping in sub-Saharan Africa project in the Human-Environment Dynamics Lab at UCSB in collaboration with the Climate Hazards Group and the US International Development Agency’s Famine Early Warning and Assessment Network (FEWS Net).

**Co-instructor**

**Fall 2009**

Central Department of Botany, Tribuvhan University, Nepal

Remote Sensing and GIS/GPS Applied Field Course in Langtang and Sagarmatha National Parks, Manaslu Conservation Area and Annapurna Conservation Area

Remote Sensing and GIS/GPS Applied Field Course
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**Research Associate**

**May 2006 – July 2010**

Environmental Engineering Department, University of Florida

National Science Foundation Integrated Graduate Education and Research Traineeship (IGERT). IGERT associate in Adaptive Management, Wise Use of Water, Wetlands, and Watersheds. Collaboration with international wetlands research centers in Southern Africa, South America, and South Florida. Organized international fieldtrips and workshops instructing local stakeholders on the use of community-based monitoring tools in Botswana, Namibia, and Zambia.

<b>Instructor</b>			
<i>Designed &amp; Taught</i>	GEO 2200 - Introduction to Physical Geography	Department of Geography	<b>Spring 2009</b>
<i>Designed &amp; Taught</i>	GEO 3352 - The Human Footprint of the Landscape	Department of Geography	<b>Spring 2009</b>
<i>Co-Instructor</i>	EES 4932 - Water, Environment, and Society (Undergraduate Honors Course)	Environmental Engineering Department	<b>Spring 2008</b>
<b>Teaching Assistant</b>			
	EES 5307 – Ecological engineering (graduate level course).	Environmental Engineering Department	<b>Spring 2009</b>

**Research Assistant**

**August 2004 - 2006**

United States Geological Survey Grant, Western Kentucky University

Fluvial geomorphology research project with Dr. Stephen Kenworthy. In charge of both fieldwork and data analysis and processing using GIS. The project was a joint effort of WKU, the USGS and USDA.

<b>Instructor</b>			
<i>Designed and Taught</i>	GEOG 420 – Data Analysis	Department of Geography and Geology	<b>Fall 2008</b>
<i>Designed &amp; Taught</i>	GEOG 100 – Physical Geography	Department of Geography and Geology	<b>Spring 2006</b>
<i>Idem</i>	GEOG 100 – Physical Geography	Idem	<b>Fall 05</b>

## **GRANTS AND AWARDS**

**2000- Present** Total funding applied for: ~\$2,394,575 of which funding amount received to date: \$1,124,716.

- 2019 Curriculum developer for the United States Geospatial Intelligence Foundation (USGIF) with funding from the **National Science Foundation (NSF)** Award DUE ATE 1304591, 1644409, 1700496 to the GeoTech Center. Course developed: Data visualization in GEOINT. Award amount: \$3,000.
- 2019 **University of North Carolina Wilmington** 2019 Strategic Initiative Program application entitled: “*Building a sustainable interdisciplinary geospatial intelligence program at UNCW*”. PI: Pricope (EOS); Co-PIs: Eulie (EVS), Masters (INT), Morago (CS) and Wang (STT). Amount received: \$3,500.
- 2019 **The Global Environment Facility (GEF)** award to Conservation International and University of California Santa Barbara (UCSB), subcontract for UNCW in support for a global drylands degradation assessment. UNCW PI: Pricope. Amount awarded to UNCW: \$94,892. Performance period: June 2019 – June 2021.
- 2019 American Association of Geographers, Africa Specialty Group **The Inaugural Distinguished Emerging Scholar Award in African Geography Award**. Presented at the American Association of Geographers Annual Meeting in Washington DC, April 4<sup>th</sup> 2019.
- 2019 **University of North Carolina Wilmington Office of Community Engagement** award: *Enhancing harmful algal bloom monitoring efforts and public engagement in the Chowan River and Albemarle Sound, North Carolina*. PI: Pricope; Graduate student supported: Hunter Synan. Amount awarded \$3,500. Performance period: May – August 2019.
- 2019 The Association of American Colleges and Universities (AACU) **Project Kaleidoscope STEM Leadership Institute Fellow**. Participation supported through an internal grant from UNCW. Award amount: ~\$5000.
- 2019 U.S. Department of State’s Bureau of Educational and Cultural Affairs (ECA) **U.S. Fulbright Scholar Award**: teaching and research at the University of Namibia. Performance period: January 2020 – August 2020. Amount awarded: \$64,950.
- 2019 **North Carolina Department of Transportation (NC DOT)**: *Fusing multi-source UAS-derived data to improve project planning and the NCDOT Wetlands Prediction Model*. PI: Narcisa Pricope, Co-PI: Joanne Halls. Amount awarded: \$300,411. August 2019 – August 2021.

- 2019 University of North Carolina Wilmington **Center for Teaching Excellence Summer Pedagogy Development Award** to develop UNCW’s first course on Geospatial Intelligence (GEOINT). Amount awarded: \$3,000. Performance period: June 2019.
- 2019 **University of North Carolina Wilmington Office of Community Engagement** award: *Enhancing socio-ecological resilience in low elevated coastal zones subject to recurrent inundation*. PI: Pricope, Co-PI: Halls, Graduate student supported: Christopher Hidalgo. Amount awarded \$5,000. Performance period: Jan. 2019 – Dec. 2019.
- 2018 **The National Council for Science, Technology, and Technological Innovation (CONCYTEC) Peru** award; *The development of early warning systems based on remote sensing and mobile information technologies for the sustainable use and management of rangelands*. PI: Naupari-Vasquez (U. Nacional Agraria La Molina, Peru), Co-PI: Angerer (Texas A&M) and Pricope (UNCW). Amount awarded \$100,000. Period of performance Jan 2019 – Jan. 2022.
- 2018 **University of North Carolina General Assembly**, Stage 2 Inter-Institutional Planning Grant: *Synchronous Mapping of Coastal Habitat Change Using Multiple Unmanned Aerial Vehicles*. PI: Pricope (UNCW) and Co-PI Akella (UNCC). Amount awarded \$75,000. Performance period: Aug. 2018 – June 2019.
- 2018 US State Department **Fulbright Senior Specialist Assignment** to the National Agrarian University La Molina, Lima, Peru (Universidad Nacional Agraria La Molina, Peru). \$10,000.
- 2018 Awarded **Fulbright Senior Specialist** status (Feb. 2018 to Feb. 2021) by the U.S. Department of State’s Bureau of Educational and Cultural Affairs (ECA) and World Learning.
- 2018 The University of North Carolina Wilmington Center for Teaching Excellence **Discere Aude Award 2017-2018** for outstanding mentoring of students.
- 2018 **Center for Innovation and Entrepreneurship at UNCW** Geospatial and Drone Analysis Service Group start-up funding; the service group serves as a model for public-private partnerships based on successful UNCW research labs. PI: Pricope, Co-I: Halls. \$10,683.
- 2017 **University of North Carolina Wilmington SURCA Award**: “*Working with data collected by an unmanned aerial vehicle to model human-environmental interactions*”. PI: Narcisa Pricope; graduate student: Steele Olsen; undergraduate advisee: Amelia Bradshaw. \$5,000. Summer 2017.
- 2017 **University of North Carolina Wilmington eTEAL Award**: “*High-Performance Computing Across the Curriculum: a Pilot Study*”. PIs: Narcisa Pricope, Joanne Halls (Earth and Ocean Sciences Dept.), Cuixan Chen (Math and Statistics Dept.), Yaw Chang (Math and Statistics Dept.), Yishi Wang (Math and Statistics Dept.), and Clayton Ferner (Computer Science Dept.). \$7,000.
- 2017 **University of North Carolina Wilmington SURCA Award**: “*Mapping hydrologically-sensitive environments in alpine forests of the western USA*. PI: Narcisa Pricope; undergraduate advisee: Justin Wells. \$5,000. Spring 2017.

- 2017 **University of North Carolina Wilmington Community Engagement Grant:** *Plan before you research: using a proactive and cooperative platform to engage rural residents in stream pollution reduction programs.* PI: Narcisa G. Pricope; Co-PI: Roger Shew; Community Partner: The Cape Fear River Watch (Kemp Burdette) and graduate student Kerry Mapes. \$5,000.
- 2017 **US State Department and University of North Carolina – International Islamic University of Islamabad Partnership** Mini-grant award: *“Geospatial analysis of Pakistani foreign relations over time – a seed collaborative project involving Pakistani and US scholars”*, PI: Narcisa Pricope. \$2,500. Spring 2017.
- 2017 **University of North Carolina Wilmington College of Arts and Sciences Pilot Grant Award:** *“Unmanned Aerial Systems (UAS) - enabled monitoring and modeling for habitat analysis”*. PI: Narcisa Pricope. \$3,500. Spring 2017.
- 2016-2019 **National Science Foundation Geography and Spatial Science (GSS) Award No. 1560700:** *Land Systems Dynamics, Vulnerability and Adaptation in a Transfrontier Conservation Area.* PI: Andrea Gaughan (U of Louisville), Co-Is: Narcisa G. Pricope (UNCW), Forrest Stevens (U Louisville) and Joel Hartter (UC Boulder). \$325,000 for May 2016 – May 2019.
- 2016 **University of North Carolina Wilmington Office for International Programs** Travel Grant for the Third Open Science Meeting of the Global Land Project, Beijing, China, October 24-27<sup>th</sup> 2016. \$1,000.
- 2016 **University of North Carolina Wilmington Community Engagement Grant:** *Assessment of Critical Infrastructure and Key Resources in New Hanover County, NC, under Various Sea Level Rise and Storm Surge Scenarios.* PI: Narcisa G. Pricope; advising undergraduate students: Sydney Bohn and Evan Hill. \$3,300.
- 2016 **University of North Carolina Wilmington eTEAL Sustainability 2.0 Award:** Application of Geospatial Technology to Enhance Multi-disciplinary Learning at UNCW to purchase 10 Android tablets for field data collecting on the Open Data Kit (ODK) platform for both remote sensing and GIS projects. \$2500.
- 2016 **University of North Carolina Wilmington Instrumentation Grant:** purchase of an ASD HandHeld Pro Spectroradiometer for the SEAL Lab and remote sensing class. \$15,000.
- 2015-2018 **National Science Foundation HRD Award No. 1533592:** *“Targeted Infusion Project: Building an interdisciplinary geosciences and geospatial intelligence curricula through applied training in mapping and spatial reasoning”*. PIs: Camelia Kantor, Narcisa G. Pricope, Hicks Bettie and Camelia Knapp. \$331,375.
- 2015 **University of North Carolina Wilmington eTEAL (Experiencing Transformative Education through Applied Learning) Award:** *“Mapping and Analysis for the Provision of Social Services”*. Pricope, N.G and Waity, J. (Sociology). \$3,500.
- 2015 **International Foundation for Science** research award for *“Drought vulnerability assessment of the Ramechhap District of central-eastern Nepal”*. Mainali, J. (Fulbright scholar and MSc. student) and Pricope, N.G. \$12,000.

- 2015 **University of North Carolina Wilmington College of Arts and Sciences 2015 Summer Research Initiative** award: *Pastoralism and livelihoods change in Ethiopia's Simien and Bale National Parks*. Pricope, N.G. \$3,500.
- 2014 **University of North Carolina Wilmington eTEAL (Experiencing Transformative Education through Applied Learning) Award:** *"Developing an applied and collaborative water resources curriculum core at UNCW"*. Pricope, N.G. and Henry, E. \$3,600.
- 2014 **National Science Foundation and Association of American Geographers International Geographical Union (IGU)** travel award for the IGU Regional Conference in Krakow, Poland August 18-22<sup>nd</sup> 2014. \$1250.
- 2013 **University of North Carolina Wilmington Charles L. Cahill Research Award:** *"Exploratory field research: Modeling the impact of urban growth and climate change on water availability in the Lake Victoria Region of Eastern Africa"*. \$3,000.
- 2013 **University of North Carolina Wilmington Office of International Programs** travel award for the Second Open Science Meeting of the Global Land Project, Berlin, Germany, March 19-21<sup>st</sup>, 2014. \$1,000.
- 2013 **University of North Carolina Wilmington eTEAL (Experiencing Transformative Education through Applied Learning) Award:** *"Application of geospatial technology to enhance multi-disciplinary learning at UNCW"*; Pricope, N.G. and Halls, J. \$5,600.
- 2013 **National Center for Ecological Analysis and Synthesis (NCEAS) Summer Institute 2013 Fellow**, 3-week intensive training workshop in ecological analysis and synthesis, to take place at NCEAS in Santa Barbara CA June 19-July 10, 2013 (all expenses covered).
- 2013 **National Socio-Environmental Synthesis Center (SESYNC) Short-course invited participant** in *Teaching Socio-Environmental Synthesis with Case Studies*, Annapolis, MD July 23-26<sup>th</sup>, 2013.
- 2013 **Southern Oregon University Professional Development Grant for the Green House Seminar Curriculum Development (2013-2014);** \$5,400.
- 2013 **National Science Foundation and Association of American Geographers International Geographical Union (IGU)** travel award for the IGU Regional Conference in Kyoto, Japan, August 4-9, 2013. \$1,250.
- 2013 **American Association for the Advancement of Science (AAAS) Early Career Fellowship**, AAAS Annual Meeting in Boston, MA. February 14<sup>th</sup> -18<sup>th</sup> 2013. \$1,000.
- 2012 **Southern Oregon University, President's Mini-Grant Award** for student capstone research on the project *"Variability of rainfall interception rates as a function of canopy cover in the Ashland Creek Watershed"*. Winter and Spring Quarters 2013, senior capstone project. \$800.
- 2012 **Southern Oregon University, Carpenter Foundation. Carpenter Grant, II** – travel grant for the American Geophysical Union (AGU) Annual Meeting, San Francisco, CA. December 3<sup>rd</sup>-7<sup>th</sup> 2012. \$525.

- 2012 **Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS) VII Symposium Scholar**, sponsored by the National Science Foundation (NSF) and National Aeronautics and Space Agency (NASA), Colorado Springs, Colorado. October 13<sup>th</sup>-20<sup>th</sup> 2012. ~\$4,000.
- 2012 **Brown International Advanced Research Institutes (BIARI) Fellow - *Climate Change and its Impacts: Regional Coupled Human-Natural Systems and Evidence-Based Policy Making***. All living and travel expenses for a 2-week workshop in Providence, RI. June 9<sup>th</sup>-23<sup>rd</sup>, 2012. \$5,000.
- 2012 **Southern Oregon University**, Carpenter Foundation. Carpenter Grant, II – travel grant for the American Association of Geographers (AAG) Annual Meeting, New York City, NY, February 2012. \$320.
- 2011 **United Nations Environment Program *Global Environment Outlook-5 (GEO-5) Fellow*** (DEWA/CDB/GEO-5 Fellowship 2011). All travel expenses to the Production and Authors' Meeting of the GEO-5 in Bangkok, Thailand September 4-8, 2011. \$2,900.
- 2011 **Southern Oregon University**, *Professional Development Grant* (Michael Parker, Charles Welden, and Narcisa Pricope PIs) for joint Biology-Environmental Studies Departments water quality monitoring efforts. \$4904.
- 2011 **United States Geological Survey, US Forest Service and The Nature Conservancy** joint grant to deploy and monitor a long-term MS5 Water Quality Multiprobe into Ashland Creek, Oregon. \$800.
- 2011 **University of Florida** IGERT travel award for the American Association for the Advancement of Science Annual meeting, Washington DC, February 17-21, 2011. \$800.
- 2010 **Southern Oregon University**, Carpenter Foundation. Carpenter Grant, II – travel grant for the American Association for the Advancement of Science Annual meeting, Washington DC, February 17-21, 2011. \$400.
- 2010 **Southern Oregon University** College of Arts and Sciences funding for the creation of the Applied Geomorphology and Hydrology Laboratory, Environmental Studies Department. \$10,000.
- 2008-2010 **National Science Foundation** – Doctoral Dissertation Improvement Grant (DDR1 BCS-0824720): *Using Remote Sensing to Create Indicators of Socio-Ecological System Resilience for Semi-Arid Savanna Watersheds in the Kavango-Zambezi Region of Southern Africa*. \$12,000.
- 2006-2010 **National Science Foundation** - Integrated Graduate Education and Research Traineeship (IGERT) *Adaptive Management, Wise Use of Water, Wetlands, and Watersheds*. Grant Number: 0504422. Award. \$85,000; includes salary, research fieldwork in Africa, conference travel expenses, laptop computer, etc.
- 2010 **University of Florida** Graduate Student Council Travel Grant for the Flood Pulsed Wetlands International Symposium, Maun, Botswana February 1-5, 2010. \$250



N. G. Pricope

- 2009 **University of Florida** Graduate Student Council Travel Grant for AAG Annual Meeting in Las Vegas, NV March 23-27, 2009. \$250
- 2008 **American Association for the Advancement of Science (AAAS)** Joshua E. Neimark Memorial Travel Assistance Award. \$310
- 2007 **National Science Foundation** Sustainability Conference, University of Alaska, Fairbanks, AK Travel Grant. \$1,500
- 2007 **National Science Foundation**, University of Florida IGERT Fieldwork Travel Award. \$2,000
- 2007 **University of Florida** Graduate Student Council Travel Grant for AAAS Annual Meeting in Boston, February 14-18, 2008. \$250
- 2007-2008 **P.E.O. International Peace Scholarship**. \$4,000
- 2007 **University of Florida** Travel Grant for the American Association for the Advancement of Science 2008 Annual Meeting, Geography Department. \$250
- 2006 Department of Geography and Geology, **Western Kentucky University** Travel Grant for the American Association of Geographers 2006 Annual Meeting. \$750
- 2006 Zuheir Sofia-Dero Downing International Travel Grant for “The Geology of the Bahamas” Fieldcourse, **Western Kentucky University**. \$1,300
- 2005 **Environmental Systems Research Institute (ESRI)** Student Assistant Award, 25<sup>th</sup> ESRI International User Conference, San Diego. \$1,200
- 2004-2006 Western Kentucky University **United States Geological Survey** Grant/Research Assistantship (2004-2006). \$30,000
- 2000-2004 **Babes-Bolyai University**, Cluj-Napoca, Romania. Annual University merit scholarship based on highest grades (#1) achieved in the Class (Tuition, Housing, Books, Expenses, and Salary). \$20,000
- 2002 **Socrates-Erasmus Exchange Program** Award for study abroad at University of Glasgow, Scotland, UK. \$1,200

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## **PENDING GRANT APPLICATIONS**

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**National Geospatial-Intelligence Agency (NGA)** Request for Information (RFI) National Geospatial-Intelligence College (NGC) Analytic Modernization Program (AMOD) submission for a USGIF-led Academic Consortium led by USGIF and in which UNCW is a member along with 9 other universities in the US. UNCW PI: Pricope. Pending.

National Science Foundation (NSF) **Geomorphology and Land-use Dynamics (GLD): Collaborative Research: Resolving Dominant Alpine Geomorphological Controls over Sediment Transport and Nutrient Cycling**. PI: John D. All (Western Washington University), Co-PI: Narcisa G. Pricope and Samantha Weintraub. \$400,000. January 2019 – January 2022. Pending.

National Science Foundation **Education and Human Resources (EHR) Improving Undergraduate STEM Education Program: Improving undergraduate STEM education through integrated chemistry at Claflin University**. PI: Kalapathy (Claflin U.), Co-PIs: Rizzuti (Claflin U.), **Pricope** (UNCW) and Knapp (Oklahoma State U.). Amount requested: \$299,990 (to UNCW \$49,871). Pending.

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## PEER-REVIEWED PUBLICATIONS

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\*indicates a student author

**Pricope, N.G.**, Mapes, K., Baxley\*, B., and Woodward\*, K. 2019. Multi-sensor assessment of the effects of varying processing parameters on UAS product accuracy and quality. *Drones* (in press).

**Pricope, N.G.**, Cassidy, L., Gaughan, A., Salerno, J., Stevens, F., Hartter, J., Drake\*, M. and Mupeta-Muywama, P. 2019. Addressing integration challenges of interdisciplinary research in social-ecological systems. *Society and Natural Resources* (revise and resubmit).

Cassidy, L., Salerno, J., Gaughan, A., Stevens, F., Hartter, J., **Pricope, N.**, Murray-Hudson, F., Cosmas, S., Kingelhoeffer, E., Henry, L., Mupeta-Muyamwa, P. 2019. An opportunity to refocus global elephant conservation. *Frontiers in Ecology and the Environment* (in review).

Salerno, J., Gaughan, A., Stevens, F., Drake, M., Cassidy, L., **Pricope, N.**, and Hartter, J. 2019. Widespread, consequential impacts on human food security from conflicts with wildlife. *Conservation Biology* (revise and resubmit).

Gaughan, A., Stevens, F., **Pricope, N.G.**, Hartter, J., Cassidy, L. and Salerno, J. 2019. Operationalizing vulnerability: land systems dynamics in a transfrontier conservation area. *Land* 2019, 8, 111.

**Pricope, N.G.**, Halls, J., Rosul\*, L., and Hidalgo\*, C. 2019. Residential flood vulnerability along the developed North Carolina, USA coast: high resolution social and physical data for decision support. *Data in Brief* 24 (2019) 103975: 1-7 <https://doi.org/10.1016/j.dib.2019.103975>

**Pricope, N.G.**, Halls, J. and Rosul\*, L. 2019. Modeling residential coastal flood vulnerability using finished-floor elevation and socio-economic characteristics. *Journal of Environmental Management* 237, 387-398.

Mainali\*, J. and **Pricope, N.G.** 2018. Mapping the need for adaptation: assessing drought vulnerability using the livelihood vulnerability index approach in a mid-hill region of Nepal. *Climate and Development*, DOI: 10.1080/17565529.2018.1521329.

**Pricope, N.**, Pardo-Rodriguez\*, L., Lopez-Carr, D., Williams\*, E., Zorich\*, L. 2018. "Geographic Vulnerability to Climate Change." In *Oxford Bibliographies in Geography*. Ed. Barney Warf. New York: Oxford University Press, 22 February 2018. URL: <http://www.oxfordbibliographies.com/view/document/obo-9780199874002/obo-9780199874002-0181.xml?rskey=j6GpyK&result=70>

Mainali\*, J. and **Pricope, N.G.** 2017b. Geospatial datasets in support of high-resolution spatial assessment of population vulnerability to climate change in Nepal. *Data in Brief* 12: 459-462.

Le\*, A.M.; **Pricope, N.G.** 2017. Increasing the Accuracy of Runoff and Streamflow Simulation in the Nzoia Basin, Western Kenya, through the Incorporation of Satellite-Derived CHIRPS Data. *Water* 9, 114.

Mainali\*, J. and **Pricope, N.G.** 2017a. Spatial assessment of climate vulnerability in Nepal: exploring the role of multiple scales and approaches. *Applied Geography* 82: 66-82.

Aukema JE, **Pricope NG**, Husak GJ, Lopez-Carr D. 2017. Biodiversity Areas under Threat: Overlap of Climate Change and Population Pressures on the World's Biodiversity Priorities. *PLOS ONE* 12(1): e0170615. doi:10.1371/journal.pone.0170615

Burke\*, J.J., **Pricope, N.G.**, and Blum, J. 2016. Thermal Imagery-Derived Surface Inundation Modeling to Assess Flood Risk in a Flood-Pulsed Savannah Watershed in Botswana and Namibia. *Remote Sensing* 2016, 8, 676

Lopez-Carr, D., Mwenda, K., **Pricope, N. G.**, Kyriakidis, P., Funk, C., Husak, G., Jankowska, M., Weeks, J., and Michaelson, J. 2016. Climate-Related Child Undernutrition: an Integrated Spatial Analysis of Health Surveys, NDVI, and Precipitation Data in the Lake Victoria Basin. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*: 9(6):1-6

**Pricope, N.G.**, Gaughan, A.E., All, J.D., Binford, M.W. and Rutina, L.P. 2015. Spatio-Temporal Analysis of Vegetation Dynamics in Relation to Shifting Inundation and Fire Regimes: Disentangling Environmental Variability from Land Management Decisions in a Southern African Transboundary Watershed. *Land* 4, 627-655.

**Pricope, N.G.**, Binford, M., and All, J. 2014. Disentangling environmental variability from land management decisions in changing semi-arid savannas of Africa. *Photogrammetric Engineering and Remote Sensing (PE&RS)* 80(11): 1005-1013

All, J., **Pricope, N.G.**, and Humagain, K. 2014. Connecting pixels with people to examine environmental changes in the Mt. Everest region of Nepal. *Photogrammetric Engineering and Remote Sensing (PE&RS)* 80(7): 600-604. Cover article.

**Pricope, N.G.**, Caplow, S. and Gaughan, A. 2014. Community-Based Management and Conservation in Africa: Trade-offs and synergies in land-use decisions in local villages in Namibia. [Peer-reviewed Case Study]. *National Center for Case Study Teaching in Science*, State University of New York at Buffalo.

López-Carr, D. and **N. G. Pricope** (co-first author), M. M. Jankowska, J. Aukema, C. Funk, G. Husak, and J. Michaelsen. 2014. A spatial analysis of population dynamics and climate change in Africa: Potential vulnerability hot spots emerge where precipitation declines and demographic pressures coincide. Special issue entitled Understanding the Links between Population Dynamics and Climate Change, *Population and Environment* 35: 323–339

**Pricope, N.G.**, Michaelsen, J., Lopez-Carr, D., Funk, C., and Husak, G. 2013. The climate-population nexus in the East African Horn: emerging degradation trends in rangeland and pastoral livelihood zones. *Global Environmental Change*, 23, 1525-1541

Bremner, J., López-Carr, D., A. Zvoleff, **N. G. Pricope**. 2013. Using new methods and data to assess and address population, fertility, and environment links in the Lake Victoria Basin. *Proceedings of the 2013 International Union for the Scientific Study of Population (IUSSP)*. Busan, Korea, August, 2013. Pp. 15.

**Pricope, N.G.**, Pardo, L. and Lopez-Carr, D. 2013. Vulnerability to Climate Change. In *Oxford Bibliographies in Geography*. Ed. Barney Warf. New York: Oxford University Press, Entry Launch Date: March 2013. <http://www.oxfordbibliographies.com/view/document/obo-9780199874002/obo-9780199874002-0040.xml>

López-Carr, D. and **N. G. Pricope** (co-first authors), M. M. Jankowska, C. Funk, G. Husak, and J. Michaelsen. 2013. Mapping population vulnerability to climate change in Africa. *Proceedings of the International Seminar on Population Dynamics and the Human Dimensions of Climate Change*. Canberra, Australia, 27-29 November 2012.

**Pricope, N.G.** 2012. Variable-source flood pulsing in a semi-arid transboundary watershed: The Chobe River, Botswana and Namibia. *Environmental Monitoring and Assessment* 185: 1883-1906

Coordinating lead authors: T. Evans, C. Hunsberger; Lead authors: T. M. Aide, J. Albaladejo Montoro, S. M. Borrás Jr., H. F. del Valle, T. Devisscher, J. Jabbour, S. Kant, D. Lopez-Carr, H. Masundire, **N. G. Pricope** (GEO Fellow) and R. Sanchez-Rodriguez; Contributing authors: M. T. Abdelhamid, B. Alftan, F. Ayache, A. A. Berhe, C. Chinweze, J. Frelichova, L. Hislop, W. K. Pan, B. Schulte-Herbruggen, J. Smith, C. Souza Jr., T. L. Timmins (GEO Fellow) and L. C. Zulu. 2012. Part I: Assessment of the State and Trends of the Global Environment. Chapter 1: Land. *Fifth Global Environmental Outlook (GEO-5)*. Nairobi: United Nations Environment Programme (UNEP). Pages: 65-96.

**Pricope, N.G.** and Binford, M.W. 2012. A spatio-temporal analysis of fire recurrence and extent for semi-arid savanna ecosystems using moderate resolution satellite imagery. *Journal of Environmental Management* 100: 72-85

**Pricope, N.G.** 2010. Resilience. In *Encyclopedia of Geography*, Ed. Barney Warf. Vol. 5, pages 2437-2441 SAGE Publications Inc. (Recipient of the "Outstanding Reference Source" award at the American Library Association ALA 2011).

**Pricope, N.G.** 2010. International watershed management. In *Encyclopedia of Geography*, Ed. Barney Warf. Vol. 3, pages 1618-1620. SAGE Publications Inc. ("Outstanding Reference Source" award ALA 2011).

**Pricope, N.G.** 2009. Assessment of Spatial Patterns of Sediment Transport and Delivery for Soil and Water Conservation Programs. *Journal of Spatial Hydrology* 9(1) Spring 2009, 21-46

All, J. and **Pricope, N. G.** 2008. How can sustainable land management contribute to mitigating climate change? *Natural Resources Forum* 32: 251-255

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## BOOK CHAPTERS AND OTHER PUBLICATIONS

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Kantor, C., **Pricope, N.G.**, and Wang, S. 2018. Discipline-Based Education Research (DBER) – a new approach to teaching and learning in Geospatial Intelligence. In *The State & Future of the GEOINT 2018, The*

*United States Geospatial Intelligence Foundation*. Print and available online at <http://trajectorymagazine.com/discipline-based-education-research/>

**Pricope, N.G.** and Halls, J. 2017. Enhancing applied learning opportunities in the geosciences using geospatial mapping, analysis and modeling tools. *UNCW's Applied Learning eBook*. Beth Oyarzun and Salena Rabidou (editors).

Mapes, Kerry L.; **Pricope, Narcisa G.**; Shew, Roger; Burdette, Kemp. 2017. *Plan before you research: Using a proactive and cooperative platform to engage rural residents in stream pollution reduction programs*. A report submitted to the University of North Carolina Wilmington Office of Community Engagement.

Bohn\*, S., Hill\*, E., and **Pricope, N.G.** 2016. Sea level rise hazard assessment for New Hanover County, North Carolina. *Explorations* (UNC system peer-reviewed undergraduate research journal). Volume XI: pp. 56-75. <http://uncw.edu/csrf/Explorations/Volume%20XI/Bohn%20and%20Hill.pdf>

**Pricope, N.G.**, All, J.D. and Miles, L. 2015. Anthropogenic and environmental disturbance factors in the Annapurna Conservation Area of Nepal. *Human and Environmental Changes in South-East Asia*. R.B. Singh and P. Prokop (editors), Springer Inc.

**Pricope, N.G.** and Gaughan, A.E. 2014. Terrestrial Ecosystems: conflicts and opportunities. Ch. 8 in *Southern African Systems: coupling humans and environment in Southern Africa*. Brown, Mark (editor).

Gaughan, A.E., **Pricope, N.G.**, Venne, L. 2014. Biophysical drivers of ecosystem variability in southern Africa. Ch. 5 in *Southern African Systems: coupling humans and environment in Southern Africa*. Brown, Mark (editor).

**Pricope, N.G.** 2013 (a, b, c). Trade winds deserts (Pp. 121-125); Kalahari xeric savanna (Pp. 726-727); and Zambezi flooded grasslands (Pp. 1338-1340) chapters in *Biomes and Ecosystems: An Encyclopedia*. Robert W. Howarth (Editor). Salem Press.

**Pricope, N.G.** 2011. Using Remote Sensing to Create Indicators of Ecosystem Variability for a Semi-Arid Transboundary Watershed in the Kavango-Zambezi Region of Southern Africa. *PhD Dissertation*. University of Florida, Gainesville, USA.

**Pricope, N.G.** 2006. Contribution to Western Kentucky University's Technical Assistance Center for Water Quality: *Supporting Small Water Systems in Meeting the Goal of Public Health Protection*. Submitted to the US Environmental Protection Agency, Office of Water. October 31, 2006.

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## PAPERS IN PREPARATION

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**Pricope, N.G.**, Shukla, S., Husak, G., Linard, C., Galu, G. and Funk, C. Identifying water insecurity hotspots in the Lake Victoria Region of East Africa. In preparation for *Nature Climate Change*.

Vanselow, K.A., Samimi, C., **Pricope, N.G.**, Crews, K.A., Gaughan, A.E., Turner, M., Hopping, K. A review on degradation and greening in drylands- two sides of the same coin? In preparation for *Ecology and Society*.

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## CONFERENCE AND SEMINAR PRESENTATIONS

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### Invited Guest Lectures

**Pricope, N.G.** 2019. *Monitoring rangelands condition using drone and remote sensing technologies*. Presented at the Technology and Mobile Information for Monitoring Rangelands Workshop, Huancayo, Junin, Peru. June 12-14<sup>th</sup> 2019.

**Pricope, N.G.** 2019. *Harnessing the power of unmanned aerial systems for human and national security applications*. Presented at the Annual GEOINT Symposium, San Antonio, Texas. June 2-6<sup>th</sup> 2019.

**Pricope, N.G.** 2019. *Exposing land degradation and vulnerability through multiscale remote and unmanned aerial systems data*. Invited lecture presented to the Department of Geography, Environment and Sustainability, UNC Greensboro. March 22<sup>nd</sup> 2019.

**Pricope, N.G.** 2019. *Exposing land degradation and vulnerability through multiscale remote and unmanned aerial systems data*. Invited lecture presented to the Department of Geography, Oklahoma State University. January 14<sup>th</sup> 2019.

**Pricope, N.G.** 2018. *Multi-scale integration of drone and satellite imagery for ecosystem degradation modeling*. Invited lecture presented at the Congress on Research in Natural Protected Areas, National Agrarian University La Molina, Lima, Peru. Sept. 26<sup>th</sup>-28<sup>th</sup> 2018.

**Pricope, N.G.** 2018. *Fundamentals of Geographic Information Science for Data Science*. Presented to the UNCW Data Science Fall 2018 Cohort, September 3-6<sup>th</sup> 2018.

**Pricope, N.G.** 2018. *Unmanned aerial vehicle-based thermal imaging applications for mosquito and vector control*. Presented to the American Mosquito Control Association on August 31<sup>st</sup> 2018. Webinar.

**Pricope, N.G.** 2018. *Multi-temporal and multi-spectral data fusion applications for managed agro-ecosystem dynamics*. Presented at the ENVI Analytics Symposium, Denver, Colorado. August 22<sup>nd</sup> 2018.

**Pricope, N.G.** 2018. *Knowledge Co-Production in Socio-Ecological Systems: adaptive iterative research co-design*. Presented during the Global Land Program Working group on Co-Production of Sustainable Land Systems, June 19<sup>th</sup> 2018. Webinar.

**Pricope, N.G.** and Rosul\*, L. 2018. *The impacts of coastal inundation and sea level rise on New Hanover County's infrastructure and resources*. Invited talk for the Osher Lifelong Learning Institute (OLLI) Women on Wednesday meeting, Wilmington NC. February 28<sup>th</sup> 2018.

**Pricope, N.G.**, Rosul\*, L., and Hill\*, E., E. 2017. *Sea level rise effects on the infrastructure and resources in New Hanover County, NC*. Presented at the NC Climate Solutions Conference, UNCW, Wilmington NC. October 14<sup>th</sup> 2017.

**Pricope, N.G.**, Graybill\*, D. *Applying Unmanned Aerial System (UAS) Technologies to Collect Remotely Sensed Data*. Presented at the North Carolina Council of Graduate Schools (NCCGS) 2017 Graduate Education Day, Raleigh, North Carolina, May 16, 2017.

**Pricope N.G.,** Gaughan, A., Stevens, F., Hartter, J., Cassidy, L., and Salerno, J. **2016.** *Mixed methods approaches to studying human-environment dynamics in the Kavango-Zambezi Transfrontier Conservation Area.* Presented to the University of Namibia Katima Mulilo Campus, July 19<sup>th</sup> 2016.

**Pricope, N.G.** 2016. *Approaches to integrating big data analytics into the adaptation to climate and environmental change field.* Presented at the “Big Data Workshop” of the Romanian Diaspora Scientific Conference organized by the West University of Timisoara, Timisoara, Romania, April 26<sup>th</sup> 2016.

**Pricope, N.G.** 2016. *Using spatio-temporal analyses and land systems science approaches to inform climate change adaptation across multiple scales.* Presented to the Mathematics and Statistics Department, University of North Carolina Wilmington, April 14<sup>th</sup> 2016.

**Pricope, N.G.** 2015. *Disentangling environmental variability from land management decisions in the semi-arid savannas of eastern and southern Africa.* Presented to the Environmental Studies Department Science Seminar Series, University of North Carolina Wilmington, NC, January 30<sup>th</sup> 2015.

**Pricope, N.G.** 2014. *Human-environment dynamics in southern Africa’s largest transfrontier conservation area.* Presented to the Environmental Studies Department, University of North Carolina Wilmington, NC. November 19<sup>th</sup> 2014.

**Pricope, N.G.** 2014. *Womanhood in post-communist Romania: opposing perspectives from the past and the present.* UNCW Osher Lifelong Learning Institute WOW Fall Program Series, November 12<sup>th</sup> 2014.

**Pricope, N.G.** 2013. *Climate change, landscape dynamics and population vulnerability in southern and eastern Africa.* Presented to the Department of Political Science and Program in Environmental Studies ‘Research in Progress’ colloquium series at the University of Oregon, Eugene, OR. March 7<sup>th</sup>, 2013.

**Pricope, N.G.** 2012. *Disentangling natural variability from land management decisions in southern Africa’s largest transfrontier conservation area.* Presented to the Department of Geography Colloquium Series, University of California Santa Barbara. April 19<sup>th</sup>, 2012.

**Pricope, N.G.** 2011. *Watershed-level monitoring to enhance resilience – the Ashland Forestry Resilience project in Ashland Creek Watershed, Oregon.* Presented during the Southern Oregon Arts and Research (SOAR) panel on Local and Regional Partnerships in support for Science and Outreach. Ashland, OR. May 14<sup>th</sup> 2011.

**Pricope, N.G.** 2009. *The use of Geographic Information Science to assess rates of soil erosion and sediment delivery to streams: application in a watershed in KY, USA.* Presented to the Central Department of Botany, Tribuvhan University, Kathmandu, Nepal. December 5<sup>th</sup>, 2009.

**Pricope, N.G.** 2008. *The Florida Everglades: Restoring the River of Grass.* Presented to the University of Florida GEO 2200 Physical Geography Course. April 22<sup>nd</sup>, 2008. University of Florida, Gainesville, FL.

**Pricope, N.G.** 2007. *The use of Geographical Information Science for establishing best management practices for soil and water conservation.* Presented to the University of Florida GEO 2200 Physical Geography Course. October 14<sup>th</sup>, 2007.

## **International Presentations**

Gaughan, A., Stevens, F., **Pricope, N.G.**, Drake\*, M., Bailey, K., Woodward\*, K. 2019. *Moving from a landscape footprint to spatial thumbprint: applying remote sensing to create unique signatures of household-level land use*. The Ecological Society of America Annual Meeting, INSPIRE session on Bridging human well-being and remote sensing. Louisville, Kentucky. August 11-16<sup>th</sup> 2019.

Stevens, F., Gaughan, A., **Pricope, N.**, Salerno, J., Hartter, J., Cassidy, Lin; Drake, M., Weaver, A., Kolarik, N., Olsen, S., Bradshaw, A., Woodward, K. 2019. *Measuring household food security and variability in land functions across communities in a semiarid savanna system*. The Global Land Program Open Science Meeting, Bern, Switzerland. April 24-26<sup>th</sup> 2019.

**Pricope, N.**, Halls, J., and Hidalgo, C. 2019. *Enhancing socio-ecological resilience in low elevated coastal zones subject to recurrent inundation*. The Global Land Program Open Science Meeting, Bern, Switzerland. April 24-26<sup>th</sup> 2019.

Mapes, K. and **Pricope, N.G.** 2017. *Locating shallow groundwater discharge to streams near concentrated animal feeding operations using aerial infrared thermography: a novel potential pollution detection method*. American Geophysical Union (AGU) Annual Meeting, New Orleans, LA, December 11-15, 2017.

McNally, A., Shukla, S., Harrison, L., **Pricope, N.G.**, Peters-Lidard, C. 2017. *Hydrologic modeling for monitoring water availability in Eastern and Southern Africa*. American Geophysical Union (AGU) Annual Meeting, New Orleans, LA, December 11-15, 2017.

Knowlton, A., Leonard, L., **Pricope, N.**, and Eulie, D. 2017. *Effects of causeway construction on vegetation and sedimentation in North Carolina tidal marshes*. American Geophysical Union (AGU) Annual Meeting, New Orleans, LA, December 11-15, 2017.

McNally, A., Jung, H.C., Pervez, M.S., Shukla, S., **Pricope, N.G.**, Harrison, L., and Peters-Lidard, C.D. 2016. *H21W-1459: Hydrologic modeling for monitoring water availability in Africa*. American Geophysical Union (AGU) Annual Meeting, San Francisco, CA, December 12<sup>th</sup>-16<sup>th</sup> 2016.

**Pricope, N.G.** 2016. *Land Systems Science contributions to mitigation and adaptation to global environmental changes: from global approaches to local realities*, Global Land Project 3<sup>rd</sup> Open Science Meeting, October 24-28<sup>th</sup> 2016, Beijing, China.

Le, Alyssa\* and **N.G. Pricope**. 2015. *A novel application of agent-based modeling: projecting water access and availability using a coupled hydrologic agent-based model in the Nzoia Basin, Kenya*. American Geophysical Union (AGU) Annual Meeting, San Francisco, CA, December 15-19<sup>th</sup> 2015.

Lopez-Carr, D., Mwenda, K., **Pricope, N.G.**, Kyriakidis, P., Jankowska, M., Weeks, J., Funk, C., Husak, G., Michaelsen, J. 2015. *A Spatio-temporal Vulnerability Analysis of Climate-Related Child Malnutrition in the Lake Victoria Basin*. International Geoscience and Remote Sensing Symposium 2015 (IGARSS 2015), Milan, Italy, July 26-31<sup>st</sup> 2015.

**Pricope, N.G.**, Gaughan, A., Rutina, L., Binford, M., All, J. 2015. *Spatio-temporal analysis of vegetation dynamics in relation to shifting inundation and fire regimes in a transboundary southern Africa savanna watershed*. Invited paper in the Analysis and Modeling of Landscape Change, Association of American Geographers Annual Meeting, Chicago, IL, April 21-25<sup>th</sup> 2015.



Burke, J.J.\* and **Pricope, N.G.** 2015. *Assessing controls and patterns of surface inundation and identifying areas of flood-risk in a flood-pulsed savanna watershed in Botswana and Namibia using a regression-based model and thermal imagery*. Association of American Geographers Annual Meeting, Chicago, IL, April 21-25<sup>th</sup> 2015.

**Pricope, N.G.**, Husak, G., Funk, C., and Lopez-Carr, D. 2014. *The climate-population nexus in the east African Horn region: emerging degradation trends in rangeland and pastoral livelihood zones*. Invited paper in the “Understanding the extents and impacts of land-use/land—cover change on hydrology I” session, American Geophysical Union (AGU) Annual Meeting, San Francisco, CA, December 15-19<sup>th</sup> 2014.

**Pricope, N.G.**, Shraddhanand Shukla, and Catherine Linard. 2014. *Identifying water insecurity hotspots in the Lake Victoria Basin of eastern Africa*. Presented in the session entitled “Observed and projected climate change impacts on water resources and agriculture II posters”, at the American Geophysical Union (AGU) Annual Meeting, San Francisco, CA, December 15-19<sup>th</sup> 2014.

**Pricope, N.G.** and Andrea E. Gaughan. 2014. *Seasonally-adjusted vegetation change trajectories in differentially-managed transboundary dryland ecosystems in southern Africa*. The Global Land Project Open Science Meeting, Humboldt University, Berlin, Germany. March 19<sup>th</sup>-21<sup>st</sup> 2014.

Bremner, J., Lopez-Carr, D., **Pricope, N.G.**, Zvoleff, A. 2013. *Using New Methods and Data to Assess and Address Population, Fertility, and Environment links in the Lake Victoria Basin*, XXVII IUSSP International Population Conference, Busan, South Korea. August 26<sup>th</sup>-31<sup>st</sup>, 2013.

**Pricope, N.G.**, Marta Jankowska, David Lopez-Carr and Alex Zvoleff. 2013. *Integrating multi-temporal climate and health data to model children’s health outcomes in the Lake Victoria Region of Africa*. Presented in session C12.19 Health and Environment, Global change and global health at the International Geographic Union (IGU) Congress Kyoto 2013. Kyoto, Japan. August 4<sup>th</sup>-9<sup>th</sup>, 2013.

**Pricope, N.G.**, Michaelsen, J., Lopez-Carr, D., Funk, C., and Husak, G. 2012. *Emerging landscape degradation trends in the East African Horn, Africa*. Paper accepted to the special session entitled: GC53E. Spatiotemporal Change Detection and the Data Infrastructure of Environmental Observatories III) at the American Geophysical Union (AGU) Annual Meeting, San Francisco, CA, December 3-7<sup>th</sup>, 2012.

Gibbes, C., **Pricope, N.G.**, Southworth, J., and Waylen, P. 2012. *An investigation of variability and change in the human and natural systems within a vulnerable semi arid region*. Presented in the session entitled: B53F. Resilience and Adaptation of Coupled Human and Natural Systems to Global Change II at the American Geophysical Union (AGU) Annual Meeting, San Francisco, CA, December 3-7<sup>th</sup>, 2012.

Lopez-Carr, D. and **Pricope, N.G.**, (co-first authors) Jankowska, M., Husak, G., Funk, C., and Michaelsen, J. 2012. *Mapping population vulnerability to climate change in Africa*. IUSSP International Seminar on Population Dynamics and the Human Dimensions of Climate Change, Canberra, Australia, 27-29 November 2012.

**Pricope N.G.** 2012. *Time series of inundation in flood-pulsed wetlands from thermal and radar imagery*. 9<sup>th</sup> INTECOL International Wetlands Conference: Wetlands in a complex world. Orlando, FL. June 2012.

**Pricope, N.G.**, Michaelsen, J., Lopez-Carr, D., Funk, C., and Husak, G. 2012. *Mapping hotspots of population vulnerability to climate change in the East African Horn*. The US-International Association for Landscape Ecology (US-IALE) Annual Meeting, Newport, RI. April 2012.

**Pricope, N.G.** 2011. *A spatio-temporal fire recurrence index for semi-arid savanna ecosystems in Southern Africa using moderate resolution satellite imagery*. American Association for the Advancement of Science (AAAS) Annual Meeting. Washington DC. February 2011.

**Pricope, N.G.** 2010. *A Thirty Year Evaluation of the Flooding in the Chobe River Basin, Botswana and Namibia*. Flood Pulsed Wetlands International Symposium, Maun, Botswana February 1-5, 2010.

**Pricope, N.G.** 2008. *A Measure of Ecological Resilience for Climate Change Adaptation in the Kavango-Zambezi Transfrontier Conservation Area, Botswana and Namibia*. American Association for the Advancement of Science (AAAS) Annual Meeting. Boston, MA. February, 2008.

**Pricope, N.G.** 2006. *Linking Physical Change to Transboundary Resource Management*. Linking the Florida Everglades and the Okavango Delta Symposium, Harry Oppenheimer Okavango Research Center (HOORC), University of Botswana. Maun, Botswana. June, 2006.

Blanchard, B., Gaughan, A., Kanapaux, B., Martin, M., Pawlitz, **Pricope, N.G.**, R., Rajvanshi, N., Thakadu, O.T. 2006. *The Florida Everglades: Restoring the River of Grass*. Linking the Florida Everglades and the Okavango Delta Symposium, Harry Oppenheimer Okavango Research Center (HOORC), University of Botswana. Maun, Botswana. June, 2006.

### **National Presentations**

Schaale, L., **Pricope, N.G.**, Baxley, B., and Danner, R. 2019. *Viewing habitat through another lens: bird nest-site selection and productivity across a beach thermal landscape*. Presented at the American Ornithology Society Annual Meeting, Anchorage Alaska. June 2019.

**Pricope, N.G.**, Mapes, K., Baxley\*, B., Woodward\*, K. and Olsen\*, S. 2019. *Multi-sensor assessment of the effects of varying processing parameters on UAS product accuracy and quality*. Presented at the American Association of Geographers Annual Meeting, Washington DC, April 3-7<sup>th</sup> 2019.

Hidalgo\*, C., **Pricope, N.**, Halls, J., Magolan, J, Rosul, L. 2019. *Validating vulnerability to inundation model using post-Florence CubeSat imagery in southeastern NC*. Presented at the American Association of Geographers Annual Meeting, Washington DC, April 3-7<sup>th</sup> 2019.

Baxley\*, B. and **Pricope, N.** 2019. *Modeling Phragmites australis rates of invasion using fused UAS and satellite data*. Presented at the American Association of Geographers Annual Meeting, Washington DC, April 3-7<sup>th</sup> 2019.

Woodward\*, K., **Pricope, N.G.**, Gaughan, A., Stevens, F., Kolarik\*, N., Drake\*, M. 2019. *Spatial patterns of vegetation structure in communally managed African savannas: Integrating social survey data with remote sensing and GIS*. Presented at the American Association of Geographers Annual Meeting, Washington DC, April 3-7<sup>th</sup> 2019.

Gaughan, A., Stevens, F., **Pricope, N.**, Salerno, J., Hartter, J., Cassidy, L., Drake\*, M., Weaver\*, A., Kolarik\*, N., Olsen\*, S., and Bradshaw\*, A. 2019. *Leveraging spatial science to measure household food security across communities in a semiarid African savanna*. Presented at the American Association of Geographers Annual Meeting, Washington DC, April 3-7<sup>th</sup> 2019.

Drake\*, M., Hartter, J., Gaughan, A., Stevens, F., **Pricope, N.** 2019. *How geographic resource distribution impacts human livelihoods in southern Africa*. Presented at the American Association of Geographers Annual Meeting, Washington DC, April 3-7<sup>th</sup> 2019.

Kolarik\*, N., **Pricope, N.**, Gaughan, A., Stevens, F., Woodward\*, K. 2019. *A multi-plot assessment of vegetation structure using a micro unmanned aerial system (UAS) in a semi-arid savanna environment*. Presented at the American Association of Geographers Annual Meeting, Washington DC, April 3-7<sup>th</sup> 2019.

**Pricope, N.G.**, Gaughan, A., Stevens, F., Salerno, J., Cassidy, L., Hartter, J., 2018. *Conceptualizing and operationalizing household vulnerability through environmental stressors and livelihood activities in the world's largest transfrontier conservation area*. Presented at the American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14<sup>th</sup> 2018.

**Pricope, N.G.** 2018. *Geospatial Intelligence: Challenges and Opportunities*. Invited panelist at the American Association of Geographers Annual Meeting New Orleans, LA, April 10-14<sup>th</sup> 2018.

Stevens, F., Gaughan A., **Pricope, N.G.**, Weaver\*, A., Olsen\*, S., Kolarik\*, N., Drake, Bradshaw\*, A. 2018. *Exposing land functions and vulnerability using multiscale satellite and UAS data*. Presented at the American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14<sup>th</sup> 2018.

Rosul\*, L. and **Pricope, N.G.** 2018. *Modeling vulnerability to inland and coastal inundation in North Carolina using high-resolution finished floor elevations*. Presented at the American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14<sup>th</sup> 2018.

Bradshaw\*, A., **Pricope, N.G.**, Stevens, F., Gaughan, A., Olsen\*, S. 2018. *Utilizing UAV and RapidEye imagery of a heterogeneous savanna landscape for structural vegetation analysis*. Presented at the American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14<sup>th</sup> 2018.

Gaughan, A., Salerno, J., Cassidy, L., Hartter, J., **Pricope, N.G.** and Stevens, F. 2018. *Adaptive capacity framing for household vulnerability in a dryland system*. Presented at the American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14<sup>th</sup> 2018.

McNally, A., Shukla, S., Harrison, L., **Pricope, N.G.**, Peters-Lidard, C. 2018. *Hydrologic modeling for monitoring water availability in Eastern and Southern Africa*. Presented at the American Meteorological Society 98<sup>th</sup> Annual Meeting, Austin, TX. January 8-11 2018.

**Pricope, N.G.** 2017. *Telecoupling in socio-hydrological systems: theoretical advances and practical ways forward*. Presented at the American Association of Geographers Annual Meeting, Boston, MA, April 2017.

**Pricope, N.G.** 2017. *Geospatial Intelligence and environmental security in extreme weather events*, invited panelist at the American Association of Geographers Annual Meeting, Boston, MA, April 2017.

**Pricope, N.G.** and Charter\*, H. 2017. *Three-dimensional visualizations of past, present and future spatially-distributed population datasets*. Presented at the American Association of Geographers Annual Meeting, Boston, MA, April 2017.

Hill, E. and **Pricope, N.G.** 2017. *Assessing the impacts of sea level rise on critical infrastructure in New Hanover County, NC*. Presented at the National Association of Environmental Professionals Annual Meeting, Raleigh, NC. April 6-8, 2017.

Johnson, A., Pabst, D., McAlarney, R., **Pricope, N.**, Long, Z., Cummings, E., Barco, S., Mallette, S., Hamilton, P., Kenney, R., Pettis, H., Knowlton, A., Good, C., Jackson, K., Rittmaster, K., McLellan, W. *North Atlantic right whale (*Eubalena glacialis*) presence and distribution in the waters of Maryland, Virginia, and North Carolina from 1998 to 2015*. 2017. Southeast and Mid-Atlantic Marine Mammal Symposium, Beaufort, NC, April 7-9, 2017.

**Pricope, N.G.**, Aukema, J., Husak, G., and Lopez-Carr, D. 2016. *A global analysis of spatial patterns of wet season precipitation and population changes in conservation priority regions*. Presented at the American Association of Geographers Annual Meeting, San Francisco, CA, March 29<sup>th</sup>-April 2<sup>nd</sup>, 2016.

**Pricope, N.G.** 2016. Invited Panelist in the session *Degradation and Greening in Drylands: two sides of the same coin?* at the American Association of Geographers Annual Meeting, San Francisco, CA, March 29<sup>th</sup>-April 2<sup>nd</sup>, 2016.

Le, Alyssa\* and **N. G. Pricope**. 2016. *Emerging trends in water resource modeling: including the coevolution of human-water systems with agent-based modeling*. Presented at 2016 AAG Annual Meeting. San Francisco, CA. April 2016.

Mainali, J\*. and **N. G. Pricope**. 2016. *Spatial assessment of climate vulnerability in Nepal: exploring the role of multiple scales and approaches*. Presented at 2016 AAG Annual Meeting. San Francisco, CA. April 2016.

Le, Alyssa\* and **N. Pricope**. 2015. *Increasing the Spatial Resolution and Accuracy of Precipitation Data within the Swat Model through the Incorporation of CHIRPS Data*. Geological Society of America Annual Meeting, Baltimore, MD, November 1-4<sup>th</sup> 2015.

Caplow, S., **N. Pricope**, A. Gaughan. 2014. *Community-Based Management and Conservation in Africa*. Association for Environmental Studies and Sciences Annual Meeting, New York, June 11-14, 2014.

**Pricope, N.G.**, Shraddhanand Shukla, and Catherine Linard. 2014. *Exploring changes in surface runoff in relation to precipitation and population density changes in the Lake Victoria Basin of Eastern Africa*. The Association of American Geographers Annual Meeting, Tampa, FL. April 9<sup>th</sup>-12<sup>th</sup> 2014.

**Pricope, N.G.**, Michaelsen, J., Lopez-Carr, D., Funk, C., and Husak, G. 2013. *Hotspots of population vulnerability to climate change in Africa*. Invited paper presentation to the The AfriPop and AsiaPop Projects: Methods and Applications for Human Population Distribution Mapping during The Association of American Geographers Annual Meeting, Los Angeles, CA, April 9-13<sup>th</sup>, 2013.

**Pricope, N.G.**, Gibbes, C., and Southworth, J. 2012. *The role of interacting fire and livestock increases in driving vegetation dynamics in the central Kavango-Zambezi Conservation Area*. The Association of American Geographers Annual Meeting. New York City, NY. February 2012.

**Pricope, N.G.** 2011. *More fires and less water: to what extent do they contribute to vegetation conversions in a southern African savanna?* The Association of American Geographers Annual Meeting. Seattle, WA. April 2011.

All, J., Miles, L., **Pricope, N.G.**, Humagain, K., and Oris, W. 2011. *Assessing relative accuracies of ASTER and SRTM DEM datasets in the Himalayan Mountains*. The Association of American Geographers Annual Meeting. Seattle, WA. April 2011.

**Pricope, N.G.** 2009. *Detection of changes in flooding regime in a semi-arid savanna watershed in Southern Africa using AVHRR satellite imagery*. The Association of American Geographers Annual Meeting. Las Vegas, NV. March, 2009.

**Pricope, N.G.** 2008. *The impact of flood decreases on water availability for wildlife and humans in a semi-arid savanna watershed in Southern Africa*. Pathways to Success 2008: Integrating Human Dimensions into Fish and Wildlife Management Conference, Estes Park, Colorado, October, 2008.

**Pricope, N.G.** and L. Venne 2008. *Assessing the effectiveness of wildlife corridors in semi-arid savanna watersheds using remote-sensing*. Pathways to Success 2008: Integrating Human Dimensions into Fish and Wildlife Management, Estes Park, Colorado, October, 2008.

All, J.D. and **N.G. Pricope**. *Building climate change resilience through improved resource management*. Kentucky Academy of Sciences, 94<sup>th</sup> Annual Meeting, Lexington, KY. October-November 2008.

**Pricope, N.G.**, B. Blanchard, R. Pawlitz, A. Gaughan, and N. Rajvanshi. 2007. *Exploring Adaptive Management of In-Stream Flows in Five Watersheds*. IGERT Sustainability Conference. University of Alaska, Fairbanks, AK. October, 2007.

**Pricope, N.G.** 2007. *Assessing Spatial Patterns of Sediment Transport in the Pitman Creek Basin, Kentucky*. The Association of American Geographers Annual Meeting. San Francisco, CA. April, 2007.

**Pricope, N.G.** 2006. *Modeling Soil Erosion in the Upper Green River, Kentucky*. Association of American Geographers 102<sup>nd</sup> Annual Meeting. Chicago, IL. March, 2006.

**Pricope, N.G.** 2005. *Initial Parameters for Off-Site Soil Erosion Modeling*. Kentucky Geographical Information Sciences Conference. Bowling Green, KY. August, 2005.

**Pricope, N.G.** 2004. *Risk Assessment Parameters for Landslide Reactivation*. Bingham Geomorphology Conference. Lexington, KY. September 2004.

### **Regional Presentations**

**Pricope, N.G.**, Mapes, K., Baxley, B., and Woodward, K. 2019. *Multi-sensor assessment of the effects of varying processing parameters on UAS product accuracy and quality in coastal regions*. Presented at the Southeastern Geological Society of America Annual Meeting, Charleston, SC. March 28<sup>th</sup>-29<sup>th</sup> 2019.

Baxley, B. and **Pricope N.G.** 2019. *Investigation of Phragmites extent and potential drivers using UAS technology*. Presented at the Southeastern Geological Society of America Annual Meeting, Charleston, SC. March 28<sup>th</sup>-29<sup>th</sup> 2019.

Schaale, L., **Pricope, N.G.**, Baxley, B., and Danner, R. 2019. *Viewing habitat through another lens: bird nest-site selection and productivity across a beach thermal landscape*. Presented at the Southeastern Geological Society of America Annual Meeting, Charleston, SC. March 28<sup>th</sup>-29<sup>th</sup> 2019.

**Pricope, N.G.** 2018. *Geospatial and Unmanned Aerial Systems Applications to Environmental Research*. Presented at the North Carolina ArcGIS Users Group, Asheville, NC. August 30<sup>th</sup> 2018.

Mapes\*, Kerry L. and **Pricope, Narcisa G.** *Estimated impacts of concentrated animal feeding operations on stream water quality in a Coastal Plains watershed.* Presented to 5<sup>th</sup> UNCW Fall Showcase of Student Research and Creativity, UNC Wilmington, November 2017.

Mapes\*, Kerry L. and **Pricope, Narcisa, G.** *Modeling potential stream pollution near concentrated animal feeding operations, Lower Cape Fear River Basin.* Presented to North Carolina Arc Users Group Annual Meeting, Carolina Beach, NC, September 2017.

Rosul\*, L. and **Pricope, NG.** 2017. *Modeling vulnerability to inland and coastal inundation in North Carolina using high-resolution finished floor elevations.* Presented at the Global Marine Science Summit, Wilmington, NC. November 2017.

Mapes\*, Kerry L. and **Pricope, N.G.** *Geospatial technologies: the future of riparian buffer assessments in the Cape Fear River Basin.* Presented to the first Cape Fear River Forum, Fayetteville State University and UNC Wilmington, September 2017.

Graybill\*, D., **Pricope, N.,** *Applying Unmanned Aerial System (UAS) Technologies to Collect Remotely Sensed Data.* Presented at the North Carolina Council of Graduate Schools (NCCGS) 2017 Graduate Education Day, Raleigh, North Carolina, May 16, 2017.

**Pricope, N.G.** 2010. *Detection and Attribution: disentangling environmental variability from land management decisions in the Chobe Basin, Southern Africa.* Presented to University of Florida Geography Colloquium Series. September 3<sup>rd</sup> 2010.

Gaughan, A.E., Gibbes, C., Godwin, D., **Pricope, N.G.,** Rostant, L., Wolf, A. 2007. *The Caprivi/Chobe Field Season May-July 2007: Results of Preliminary Research.* Presented to Students in African Studies Association. September 7, 2007. University of Florida, Gainesville, FL.

Gaughan, A.E., Blanchard, B., Kanapaux, B., Padowski, J., Pawlitz, R., **Pricope, N.G.** and Muarry-Hudson, Mike. *Exploration of Coupled Human and Natural Systems in the Kavango-Zambezi Region.* Presented to Natural Resource Management Seminar, November 17, 2006. University of Florida, Gainesville, FL.

Pawlitz, R., **N.G. Pricope,** M.T. Brown, N. Rajvanshi, and B. Blanchard. 2006. *Drivers of Land Cover Change in the Kavango-Zambezi Region.* Land Use and Environmental Change Institute (LUECI) Annual Conference. Gainesville, FL. October, 2006.

**Pricope, N.G.** 2006. *Modeling Soil Erosion in the Upper Green River, Kentucky.* Presented to the Western Kentucky University Geography Seminar. May 5, 2006. Bowling Green, KY.

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## SERVICE ACTIVITIES AND OUTREACH

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**Invited presenter,** the **North Carolina Association of Floodplain Managers Annual Conference, Co-Producing Vulnerability to Inundation Modeling in Coastal North Carolina.** Wrightsville Beach, May 7<sup>th</sup> 2019.

**Co-Organizer,** Immersive session on Sustainable Land Co-Production at the Global Land Program Open Science Meeting, University of Bern, Switzerland, April 24<sup>th</sup> 2019.

**Associate Editor, Land Degradation and Development Journal** (I.F. 7.17) in the “Remote Sensing and Emerging Technologies” section.

**Organizer and trainer** for the first **UAV Operations and Analytics Workshop** attended by 9 community members from the Cape Fear Public Utilities Authority, the NC Fish and Wildlife Commission, the Cape Fear River Partnership and the UNCW Environmental Sciences Department. January 10-12<sup>th</sup> 2019.

**Primary convener and session chair** at the Southeastern Geological Society of America Annual Meeting, Charleston, SC: *UAV/Drone Technology and Spatial Metrics for the Coastal Zone* session. March 28-28, 2019.

**Training webinar for the American Mosquito Control Association, Young Professionals Network:** Unmanned Aerial Vehicle-based Thermal Imaging for Mosquito and Vector Control. August 31<sup>st</sup> 2018.

**Primary convener and chair** at the American Association of Geographers Annual of the session: *UAS Symposium IV: Advances in UAV-based remote sensing applications and methods in land systems science*. April 10-14<sup>th</sup> 2018, New Orleans, LA.

**Invited Core Group Steering Member** for the Global Land Project and Future Earth International Knowledge Co-Production Working Group.

**Steering Committee Member (external, international)** on the BELSPO STEREO 3 (Belgian Science and Policy Office, Support to the Exploitation and Research of Earth Observation Data, III) funded project entitled: Understanding Turning Points in Dryland Ecosystem Functioning (U-TURN), 2017-2021.

**Invited international expert panelist** for the Belgian Science and Policy Office (BELSPO) STEREO 3 Program (Support to the Exploitation and Research of Earth Observation Data, III), May-June 2016. In-person expert panelist in Brussels, Belgium, June 14-16<sup>th</sup> 2016.

**Primary convener** at the American Association of Geographers Annual Meeting of the session: “*Shifting Hydroperiods - conflicts and opportunities arising from dynamics of inundation in wetlands and seasonally-inundated floodplains*”, April 5-9<sup>th</sup> 2016, Boston, MA.

**Primary convener** at the Global Land Project 3<sup>rd</sup> Open Science Meeting of the session “*Land Systems Science contributions to mitigation and adaptation to global environmental changes: from global approaches to local realities*”, October 24-28<sup>th</sup> 2016, Beijing, China.

**Primary convener** at the American Geophysical Union (AGU) Annual Fall Meeting of the session “*The land systems science - earth systems modeling nexus: global actors and drivers, and local land change in a socio-environmentally teleconnected world*”, December 15-19<sup>th</sup>, 2015, San Francisco CA.

**Pricope, N.G.** 2016. Primary session convener/organizer of the *Human dimensions of Arctic Change* AAG Session. American Association of Geographers Annual Meeting, San Francisco, CA, March 29<sup>th</sup>-April 2<sup>nd</sup>, 2016.

**UNCW Summer Undergraduate Research & Creativity Awards (SURCA)** campus-wide elected reviewer. April 10-17<sup>th</sup> 2015.

N. G. Pricope

**Pricope, N.G.,** Waity, J. *Mapping and Analysis for the Provision of Social Services*. Project presented with graduate students at the Social Entrepreneurship Conference, Greensboro, NC, February 11<sup>th</sup> 2015.

**Pricope, N.G.** *Multi-flavored cultures across the world: travel experiences to three continents*. Invited lecture at the Cape Fear Academy Third Grade groups, November 14<sup>th</sup> 2014.

**Pricope, N.G.** *Womanhood in post-communist Romania: opposing perspectives from the past and the present*. UNCW Osher Lifelong Learning Institute WOW Fall Program Series, November 12<sup>th</sup> 2014.

National Science Foundation (NSF) **Graduate Research Fellowship Program (GRFP)** Review Panelist, GRFP Social and Behavioral Sciences Panel. January 2015, Washington DC.

Department of Defense (DoD) and the American Society for Engineering Education reviewer/panelist for the **National Defense Science and Engineering Graduate Fellowship Program**, February, 2015.

**Elected committee member** on UNCW Provost's Advisory Council (2014-2015)  
Faculty Senate Research Committee (2014-2015)  
International Program Advisory Council (2014-2016), deferred  
Geology, Geography, and Geology Graduate Student club co-advisor  
Geography Curriculum Committee (2013-present)  
University Innovation Council Enrollment Forecasting Proposal Competition  
Reviewer (invited by Dr. Ron Vetter, November 2014)

**Chair** of the UNCW Department of Geography and Geology **Public Relations Committee** (2014-2015) and moderator of the departmental Facebook page and other advertising outlets.

UNCW **SeaHawk Saturday** Recruiting Event for the Geography and Geology Department. September 20<sup>th</sup>, 2014.

**Co-chair** of the *Natural environment, climate change, disasters and its impact on human society in South Asia* session at the International Geographical Union (IGU) Annual Meeting in Krakow, Poland, August 17<sup>th</sup>-22<sup>nd</sup>, 2014.

Elected **Chair** (2014-2016) of the **Association of American Geographers (AAG) Human Dimensions of Global Change (HDGC)** Specialty Group.

UNCW **ETEAL: Experiencing Transformative Education through Applied Learning** Departmental Liaison for academic years 2014-2015.

UNCW **Summer Undergraduate Research & Creativity Awards (SURCA)** campus-wide elected reviewer. April 21-27<sup>th</sup> 2014.

UNCW **SeaHawk Saturday** Recruiting Event for the Geography and Geology Department. April 5<sup>th</sup>, 2014.

UNCW **Information Literacy Rubric Norming Session and Scoring Event, February 14<sup>th</sup> and 21<sup>st</sup>, 2014.**

Department of Defense (DoD) and the American Society for Engineering Education reviewer/panelist for the **National Defense Science and Engineering Graduate Fellowship Program**, February 1 to 15<sup>th</sup>, 2014.



N. G. Pricope

**Oregon Climate Change Research Institute (OCCRI) Affiliate Faculty.**

National Science Foundation (NSF) **Research Coordination Network in Science, Engineering and Education for Sustainability (RCN-SEES)** program panelist. May 9<sup>th</sup>-11<sup>th</sup> 2013, Arlington, VA.

National Science Foundation (NSF) **Graduate Research Fellowship Program (GRFP)** Review Panelist, GRFP Ecology Panel. January 9<sup>th</sup>-11<sup>th</sup> 2013, Washington DC.

Southern Oregon University **Faculty Senate**, September to December 2012.

Collaborative work with the **Ashland Forestry Resilience Project**, Ashland, OR and undergraduate students at Southern Oregon University.

American Association of Geographers. **Session Organizer**. Session: *Coupled Human-Environment Interactions in Drylands Systems*, Washington DC, April 14-18 2010.

Central Department of Botany, Tribhuvan University, Nepal. **Fieldcamp Co-Leader** –*Remote Sensing Field Course for Alpine Vegetation Monitoring*. Manaslu Conservation Area, Himalaya, Nepal – December 8 - 27 2009.

Central Department of Botany, Tribhuvan University, Nepal. **Fieldcamp Co-Leader** –*Biodiversity Inventory and Remote Sensing Fieldcamp*. Langtang National Park, Himalaya, Nepal – September 8 -20 2009.

American Association of Geographers. **Session Chair**. Session: *Environmental and Humanitarian Applications of Geospatial Technologies I and II*, Las Vegas, NV March 22 – 27, 2009.

American Association for the Advancement of Science (AAAS). **Session Aide**. AAAS Annual Meeting, Chicago, IL, USA. February, 12 – 16, 2009.

**Symposium Organizer** – “Water Resources and Ecosystem Services for Human-Wildlife Coexistence “ , part of Pathways to Success 2008: Integrating Human Dimensions into Fish and Wildlife Management, Estes Park, Colorado, September 28 – October 2, 2008.

American Association for the Advancement of Science (AAAS). **Session Aide**. AAAS Annual Meeting, Boston, MA, USA. February 14 – 18, 2008.

**Symposium Organizer** – “UF Water Institute Water Symposium” – Florida Challenges and Global Solutions for Sustainable Water Resources, February, 2008.

**Workshop Co-Organizer** – *Key Challenges in the Kafue National Park, Zambia*. University of Zambia, Lusaka. July 2007.

Hoffman Environmental Research Institute, Western Kentucky University, and Puerto Rico Division of Natural Resources, Puerto Rico. **Volunteer Researcher** – *Resource Management and Cave Mapping on Isla de Mona, Puerto Rico*, May 12-28, 2007.

**Workshop Co-Organizer** – *Current Issues and Challenges in the Management of the Okavango Delta, Botswana*. Harry Oppenheimer Okavango Research Center Workshop. Maun, Botswana. June, 2006

N. G. Pricope

**Treasurer** of the Green River Grotto Caving Club, National Speleological Society, 2005-2006.

**Secretary** of the Graduate Geoscience Society, Western Kentucky University, Bowling Green, KY, 2005-2006.

Work and Travel International Exchange Student, Corolla, North Carolina. June - October, 2003.

**Socrates-Erasmus International Exchange Student**, University of Glasgow, United Kingdom. October – December 2002.

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## EDITORIAL COMMITTEES

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**Associate Editor**, *Land Degradation and Development Journal* (I.F. 7.17) in the “Remote Sensing and Emerging Technologies” section.

**Editorial Board Member:** *JSM Environmental Science and Ecology* (SciMed Central), *The Open Remote Sensing Journal* and *Research Journal of Environmental Sciences*

Reviewer for the Environmental Systems Research Institute (ESRI) Press new publication: *Making Spatial Decisions Online*, 2014-2015.

**Article Reviewer:** *PLoS One*, *Land* (SSN 2073-445X), *International Journal of Biometeorology*, Springer Inc., *Environmental Management*, Springer Inc., *Journal of Environmental Monitoring and Assessment*, Springer Inc., *The African Studies Quarterly Journal*., *British Journal of Environment and Climate Change*, *Applied Geography*, *Earth Interactions*, *Latin American Journal of Aquatic Research*, *Photogrammetric Engineering and Remote Sensing*, *Journal of Land Use Science*, *Annals of the Association of American Geographers*, *Regional Environmental Change*, *Climatic Change*, *Journal of Environmental Management*, *International Journal of Remote Sensing*, *Remote Sensing*, *Land*, *International Journal of Digital Earth*, *Population and Environment*, *Land Degradation and Development*, *Earth System Science Data* (EU Copernicus Publications).

Editorial committee member in the process of publication of the 4<sup>th</sup> Edition of *Physical Geography* by Harm de Blij, Peter Muller, Jim Burt, and Joe Mason, Oxford University Press (2010-2012).

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## PROFESSIONAL DEVELOPMENT ACTIVITIES

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**SAR Demystified and How to get the most out of analytics without coding workshops** at the ENVI Analytics Symposium, Denver, CO. August 21<sup>st</sup> 2018.

**Pachamama Alliance Facilitator Training Symposium**, Medford, Oregon, October 11-12<sup>th</sup>, 2014.

**EXELIS ENVI for Vegetation Analysis** Training in Verndon, VA. Nov. 3-5<sup>th</sup>, 2013.

**American Geophysical Union** Introduction to the Web-enabled Landsat Data (WELD) products using open source software, Geographic Information Science Center of Excellence, South Dakota State University, Brookings. December 6<sup>th</sup>, 2012.

**Brown International Advanced Research Institutes (BIARI)** Climate Change and its Impacts: Regional Coupled Human-Natural Systems and Evidence-Based Policy Making. On location, intensive 2-week workshop in Providence, RI. June 9<sup>th</sup>-23<sup>rd</sup>, 2012.

N. G. Pricope

United States – International Association for Landscape Ecology (US-IALE) Annual Meeting – National Aeronautics and Space Agency (NASA) MSU – **Workshop on Land Surface Phenology**, Newport, Rhode Island, April 8-11, 2012.

United States – International Association for Landscape Ecology (US-IALE) Annual Meeting – **Spatial Analysis and Modeling in R**, Newport, Rhode Island, April 8-11, 2012.

Global Land Project (GLP) Open Science Meeting – Land Systems, Global Change and Sustainability. Workshop “**Land Change Modeling Methods: calibration, validation and extrapolation**” offered by Professor R G Pontius Jr. Tempe, Arizona, October 17-19, 2010.

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## **GRADUATE RESEARCH ADVISING (Chair of thesis committee)**

### **M.S. Thesis Advising**

**Hidalgo, C.** In Progress. Modeling flood vulnerability in North Carolina. Master of Geosciences Program, thesis option. UNC Wilmington.

**Synan, H.** In Progress. Predicting driving factors of harmful algal blooms in the Albermarle and Chowan watersheds using multiscale remote sensing. Master of Geosciences Program, thesis option. UNC Wilmington.

**Woodward, K.** In Progress. Quantifying savanna degradation along an environmental and socio-economic gradient in southern Africa. Master of Geosciences Program, thesis option. UNC Wilmington.

**Baxley, B.** In Progress. Using fused remote sensing data and geospatial modeling to assess risk of Phragmites invasion in NC wetlands ecosystems. Master of Geosciences Program, thesis option. UNC Wilmington.

**Rosul, L.** 2018 (completed). High-resolution socio-economic vulnerability assessment in coastal North Carolina using geospatial modeling. Master of Geosciences Program, thesis option. UNC Wilmington.

**Mapes, K.** 2018 (completed). Modeling the impact of CAFOs and land use changes on water quality in the Cape Fear Basin, NC. Master of Geosciences Program, thesis option. UNC Wilmington.

**Olsen, S.** 2017 (completed). UAV-based remote sensing techniques for estimating vegetation parameters at high spatial resolution. Master of Geosciences Program, non-thesis option. UNC Wilmington.

**Graybill, D.** 2017 (completed). Wrangling Raw Imagery Data from Various Satellite and Unmanned Aerial Vehicle Sensors. Master of Geosciences Program, non-thesis option. UNC Wilmington.

**Le, A.M.** 2016 (completed). Emergent water resource modeling: the inclusion of spatio-temporal dynamics into socio-hydrologic analysis. Master of Geosciences Program, thesis option. UNC Wilmington. NSF Graduate Research Fellowship Applicant, Fall 2014.

**Mainali, J.** 2016 (completed). Comparative drought vulnerability assessment using mixed methods in the Nepali Himalaya. Master of Geosciences Program, thesis option. UNC Wilmington. Nepali Fulbright Scholar.

**Burke, J. J.** 2015 (completed). Modeling Surface Inundation and Flood Risk in a Flood Pulsed Savannah: Chobe River, Botswana and Namibia. Master of Geosciences Program, thesis option. UNC Wilmington. Geological Society of America funded fieldwork in southern Africa.

### **M.S. Thesis Committee Member**

**Schuman, J.** In Progress. Understanding seasonal dynamics of zooplankton in North Carolina's lacustrine environments. Master of Biology Program, UNC Wilmington.

**Schmidt, C.** In Progress. Modeling soil erosion and impacts on water resources in the Peruvian Andes Mountains. Master of Geography Program, Western Washington University, Bellingham, WA.

**Weaver, A.** In Progress. Statistical modeling of population change and distribution in the Zambezi region of Namibia. Master of Geography Program, University of Louisville, KY.

**Kolarik, N.** 2019. A multi-plot assessment of vegetation structure using a micro unmanned aerial system (UAS) in a semi-arid savanna environment. Master of Geography Program, University of Louisville, KY.

**Knowlton, A.** 2018. Remote sensing of vegetation and geomorphology to study the effects of causeway removal in NC. Master of Geosciences Program, UNC Wilmington.

**Putnam, J.** 2015. Shelter use during hurricane evacuations with the use of GIS in emergency management in Eastern NC. Master of Geosciences Program, UNC Wilmington.

**Science, B.** 2014. Spatial and temporal changes in extent and duration of flooding in the Ganges-Brahmaputra Delta, Bangladesh. Master of Geosciences Program, UNC Wilmington.

### **Undergraduate Thesis Advising, Awards, Presentations**

**Whitehouse, L.** In Progress. Thermal-based indices for wetland vegetation mapping. Department of Earth and Ocean Sciences Honors thesis (honors thesis chair). UNCW.

**Bradshaw, A.** 2019. Modeling vegetation dynamics in the Kavango-Zambezi Transfrontier Region of southern Africa. Department of Earth and Ocean Sciences Honors thesis (honors thesis chair). UNCW.

**Hann, Ashley.** 2017. Balancing production and fisher attraction on artificial reefs: model analysis. Department of Biology and Marine Biology Honors Thesis (committee member), University of North Carolina Wilmington.

**Johnson, A.C.** 2017. Modeling factors that predict the distribution of whales in the Atlantic Ocean. Department of Biology and Marine Biology Honors Thesis (committee member), University of North Carolina Wilmington.

**Wells, J.** 2017. Mapping Hydrologically-Sensitive Environments in Alpine Forests of the Western United States. UNCW SURCA proposal award.

**Marsh, G.** 2016. Quantifying and visualizing the carbon footprint of small businesses in downtown Wilmington, NC. DIS Advisor: Dr. Pricope. Presented at the UNCW Fall Research Showcase Symposium, Nov. 21-22, 2016.

**Charter, H.P.** (supervisor Pricope, N.G.). 2016. UNCW CSURF Travel Award to present at the American Association of Geographers Annual Meeting, Boston, MA. April 2017.

**Melvin, F.** 2015. *Fusing Multi-Sensor Imagery to Assess Shifts In Smallholder Farming Practices in Response to Conservation Priorities in the Mayuni Conservancy, Namibia.* Research project presented at the UNCW 2015 Spring Research and Creativity Symposium.

**Anderson, L.** 2015. Fire Suppression In The Sierra Nevada: Management Efforts And Environmental Impacts. Research project presented at the UNCW 2015 Spring Research and Creativity Symposium.

**Tremblay, E.** 2015. Stormwater Management in Anacostia Watershed Using LIDs (Low Imprint Designs and Low Impact Development). Research project presented at the UNCW 2015 Spring Research and Creativity Symposium.

**Dale, K.** 2015. Addressing The Efficiency of the Comprehensive Land Use Plan of Harpers Ferry, WY. Research project presented at the UNCW 2015 Spring Research and Creativity Symposium.

**Meyer, D.** 2015. Examining Health Conditions, the Expected Population Increase, and the Future of Alameda County. Research project presented at the UNCW 2015 Spring Research and Creativity Symposium.

**Duffy, C.** 2015. New Urbanist Design in Five Points, El Paso, Texas. Research project presented at the UNCW 2015 Spring Research and Creativity Symposium.

**Richter, Aleece.** 2011. *Comparison of the flow hydraulics and bedload grain size distribution of the East and West Forks of Ashland Creek, Southwestern Oregon.* Capstone Thesis. Advisor: Dr. Narcisa G. Pricope. Department of Environmental Studies, Southern Oregon University, Ashland, OR.

**Twitchell, M., Boyd, M., and Smith, E.** 2013. *Reestablishing Calibration Monuments for Rosgen Stream Classification at North Mountain Nature Center, Ashland, Oregon.* Capstone Thesis. Advisor: Dr. Narcisa G. Pricope. Department of Environmental Studies, Southern Oregon University, Ashland, OR.

**Ives, J.** 2013. *Variability of rainfall interception rates as a function of canopy cover in the Ashland Creek Watershed.* Capstone Thesis. Advisor: Dr. Narcisa G. Pricope. Department of Environmental Studies, Southern Oregon University, Ashland, OR.

### **Graduate and Undergraduate Directed Independent Study Courses Supervised**

GEO591: Adaptation in East Africa	Fall 2014
GEO591: Field research in southern Africa	Fall 2014
GEO591: MODIS thermal imagery analysis for inundation mapping	Summer 2014
GGY491: Object-based image analysis and data fusion	Spring 2015
GGY491: Remote sensing of fires and applications	Summer 2015
GEO591: Introduction to Python (2 graduate students enrolled)	Spring 2016
GEO591: Fundamentals of GIS (grad student in Statistics)	Spring 2016

GGY491: Using GIS to assess fracking effects in the USA	Spring 2016
GLY491: Modeling sea level rise New Hanover County (2 students)	Spring 2016
GEO591: Research Methods in Geosciences	Fall 2016
GEO591: UAV-data processing	Fall 2016
GGY491: GIS modeling for marine mammal distribution	Fall 2016
GGY491: GIS techniques for carbon footprint mapping	Fall 2016
GGY491: Modeling urban expansion using GIS	Spring 2017
GGY491: Mapping the Coffee Value Chain in Eastern Democratic Republic of Congo	Spring 2017
GGY491: GIS modeling for marine mammal distribution (II)	Spring 2017
GGY491: Modeling to estimate snow cover extent change Peru	Fall 2017
GLY491: Modeling effects of impervious cover on water quality	Fall 2017
GGY499: Honors work in Geography (human-environment interactions modeling)	Fall 2017
GEO597: Final project in Geosciences (southern Africa exposure quantification)	Fall 2017
GEO599: Thesis hours (2) (modeling effects of CAFOs on water quality in NC)	Fall 2017
GEO591: Field methods for vegetation dynamics modeling in NC watersheds	Spring 2018
GEO591: Spatial applications of data mining and intro to UAV thermal imagery	Spring 2018
GEO591: UAV-based field methods in archeology	Spring 2018
GEO591: UAV and field sampling applications	Spring 2018
GGY499: Honors work in Geography (human-environment interactions modeling)	Spring 2018

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## **PROFESSIONAL MEMBERSHIPS**

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American Association of Geographers (AAG)  
American Association for the Advancement of Science (AAAS)  
American Geophysical Union (AGU)  
American Society for Photogrammetry and Remote Sensing (ASPRS)  
Association for Women Geoscientists (AWG)  
International Association for Landscape Ecology (US-IALE)  
National Resources Defense Council (NRDC)  
Gamma Theta Upsilon Honor Society  
SigmaXi  
Women in Aviation International (WAI)