

RYAN D. LAWRENCE

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PROFESSIONAL PREPARATION

Ph.D., Earth and Environmental Science, University of New Hampshire, Durham, NH, USA, *In progress*

B.S., Chemistry, Magna Cum Laude, Elizabeth City State University, Elizabeth City, NC, USA, 2013

RESEARCH INTEREST

carbon dynamics

glaciology

remote sensing

winter soil ecology

RESEARCH EXPERIENCE

“Elizabeth City State University Bay Area Recalculation”

Center of Excellence in Remote Sensing Education and Research

Fall 2012 - Spring 2013

Academic Year Undergraduate Research Experience

Elizabeth City State University, Elizabeth City, NC, USA

Mentor: Dr. Malcolm LeCompte (Elizabeth City State University)

“Light Effects on Chamber Measurements of Methane and Carbon Dioxide Fluxes and their Isotopologues in a sub-Arctic Mire”

Northern Ecosystems Research for Undergraduates

Summer 2012

University of New Hampshire, Durham, NH, USA

Abisko Scientific Research Station, Abisko Sweden

Mentor: Dr. Ruth Varner (University of New Hampshire)

“Survey to Detect Long-term Variability in Pine Island Bay Coastal Ice using Archived Landsat Imagery”

Center of Excellence in Remote Sensing Education and Research

Fall 2011 - Spring 2012

Academic Year Undergraduate Research Experience

Elizabeth City State University, Elizabeth City, NC, USA

Mentor: Dr. Malcolm LeCompte (Elizabeth City State University)

“Developing a Method for Estimating Accumulation Rates using CReSIS Airborne Snow Radar”

Research Experience for Undergraduates in Ocean, Marine, and Polar Sciences 2011

Summer 2011

University of Washington, Seattle Washington, USA

Elizabeth City State University, Elizabeth City, NC, USA

Mentors: Ms. Brooke Medley & Dr. Ian Joughin (University of Washington)

“Validation of the 2003 Antarctic Grounding Line through the use of ENVI”

Center of Excellence in Remote Sensing Education and Research

Fall 2010 - Spring 2011

Academic Year Undergraduate Research Experience

Elizabeth City State University, Elizabeth City, NC, USA

Mentor: Dr. Malcolm LeCompte (Elizabeth City State University)

RELEVANT TEACHING / WORK EXPERIENCE

Research Experience for Undergraduates in Ocean, Marine, and Polar Sciences 2014, Mentor

Summer 2014

Global Environmental Change, Teaching Assistant

Spring 2014, 2015

Green For All, College Campus Ambassador

Fall 2011 - Spring 2012

SELECTED PRESENTATIONS

“The World of Glaciers”

Oral presentation

Summer 2014

Center for Remote Sensing of Ice Sheets - 2014 Middle School Program

Elizabeth City, NC, USA

“Changes in Net Ecosystem Exchange and the Isotopic Composition of Respiration across a Permafrost Thaw Gradient”

Poster presentation

December 2013

Fall 2013 American Geophysical Union Meeting

San Francisco, CA, USA

- “Light Effects on Chamber Measurements of Methane and Carbon Dioxide Fluxes and their Isotopologues in a sub-Arctic Mire”
 Poster presentation December 2012
 Fall 2012 American Geophysical Union Meeting
 San Francisco, CA, USA
- Annual Biomedical Research Conference for Minority Students 2012 November 2012
 San Jose, CA, USA
- “Developing a Method for Estimating Accumulation Rates using CReSIS Airborne Snow Radar”
 Poster presentation April 2012
 13th Annual Undergraduate Research Conference
 University of New Hampshire, Durham, NH, USA
- Oral presentation November 2011
 NASA Innovations in Climate Change Workshop
 Elizabeth City State University, Elizabeth City, NC, USA

AWARDS, HONORS, AND FELLOWSHIPS

- College of Engineering and Physical Science (CEPS) Graduate Fellowship 2013 - 2014
 New Hampshire Space Grant Consortium Scholar Summer 2013
 Center of Excellence in Remote Sensing Education and Research “Award of Excellence” 2013
 The Annual Biomedical Research Conference for Minority Students 2012
 Chemistry and Interdisciplinary Award
 Center of Excellence in Remote Sensing Education and Research Scholarship 2012 - 2013
 We SALUATE You! Award: 2012
 Elizabeth City State University Student Government Association
 Center of Excellence in Remote Sensing Education and Research “Research Scholar” Award 2012
 Outstanding University of North Carolina Campus Scholar (Sophomore) 2011
 Who's Who Among Students In American Universities And Colleges 2011
 New Hampshire Space Grant Consortium Undergraduate Scholarship 2010, 2011, 2013

AFFILIATIONS / MEMBERSHIPS

- National Society Of Black Engineers (University of New Hampshire, Graduate Student Advisor) Fall 2014 - Present
 University of New Hampshire – Graduate Student Senate Fall 2013 - Present
 ECSU Minority Access to Research Careers Undergraduate Students Training in Academic and Research Fall 2012 - Present
 Alpha Phi Alpha Fraternity, Incorporated 2011 - Present
 Center of Excellence in Remote Sensing Education and Research Fall 2010 – Spring 2013
 Institute of Electrical and Electronics Engineers Student Member Fall 2010 - Present
 American Geophysical Union 2009 – Present

COMMUNITY SERVICE / VOLUNTEER EXPERIENCE

- Teacher’s Assistant / Mathematics Tutor Summer 2010, 2011
 Motivation, Opportunities, Determination, Excellence, and Leadership Scholars
 Elizabeth City State University, Elizabeth City, NC, USA
- Mathematics Tutor Fall 2010
 H.L. Trigg Community School
 Elizabeth City, NC, USA

PUBLICATIONS

- M.A. LeCompte, R.A. Bindschadler, L.B. Hayden, M. Jefferson, Y. Bridgers, **R. Lawrence**, J. Bevins, J. Brownlow, R. Evans, K. Hawk and G. Koch, Reduction and Loss of an Ice Shelf in Elizabeth City State University Bay, Antarctica: 1972-2003 and appears in volume 6, no. 3, June 2013 issue of the IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, pages 1509 to 1515