

**NICOLE BILLER**  
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## **EDUCATION**

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### **University of North Carolina, Charlotte 2012-Present**

- Pending Masters of Middle School Education
- GPA: 4.0

### **University of Florida, Gainesville, Florida, 2008-2012**

- Dual Bachelor of Science and Arts
- Major: Geology and Anthropology
- GPA: 3.67

## **RESEARCH INTERESTS**

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My current focus is on sea level rise and sedimentation over glacial-interglacial timescales by utilizing proxies such as radiogenic isotopes preserved in marine sediments to reconstruct paleocirculation and weathering patterns during these times.

## **FIELD EXPERIENCE**

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### **Field Camp New Mexico, Summer 2012**

- Travelled through the Western U.S. including areas within the Rio Grande Rift, Basin and Range Province, Colorado Plateau, and Permian Basin
- Produced geologic maps using Brunton compasses, topographic maps, and GPS devices
- Maps and cross sections were then digitally reproduced using Adobe Illustrator with the expectation of a professional quality final draft

### **Field Topics in the Bahamas, Spring 2011**

- Conduct research in areas of tectonics, karst topography, hydrology, and modern carbonate deposition of the Bahamas

### **Moche Borago, Ethiopia, Spring 2010**

- Conducted Archaeological Research in Southern Ethiopia with Steve Brandt of the University of Florida. The project was in collaboration with the University of Cologne and Ethiopian colleagues.
- Research encompasses the establishment of agriculture and nomadic pastoralism, the ethnoarchaeology of lithic production and the site of Moche Borago rock shelter as a Late Pleistocene refugia.
- Utilized numerous technological advances never before done in Ethiopia

## **PUBLICATIONS & PRESENTATIONS**

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### **Poster Presentation, GSA Fall 2012 Meeting, Charlotte NC**

Evidence for Meltwater Pulse 1a in the Gulf of Mexico based on radiogenic isotopes of leachates; N.B. Biller, E.E. Martin, and B.P. Flower

**Co-author on Presentation, AGU Fall 2011 Meeting, San Francisco CA, Gulf of Mexico Climate, Laurentide Ice Sheet History and Global Sea Level Change During the Late Glacial Cycle;** B.P. Flower, C. Williams, E.A. Brown, D.W. Hastings, H. Hill, S. Adams, J. Hendrix, E.E. Martin, N.B. Biller, E. Goddard

### **Poster Presentation, AGU Fall 2011 Meeting, San Francisco CA**

Evidence for Meltwater Pulse 1a in the Gulf of Mexico based on radiogenic isotopes; N.B. Biller, E.E. Martin, and B.P. Flower

### **Co-author on Presentation, Comer Science and Education Fall 2011 Meeting**

Evidence for meltwater pulse 1a in the Gulf of Mexico based on bulk sediment  $\delta^{18}\text{O}$  and radiogenic isotopes; B.P. Flower, C. Williams, E. Goddard, D.W. Hastings, J. Hendricks, N. Meckler, E.E. Martin, and N. Biller

## RESEARCH FUNDING

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- Gulf Coast Association of Geological Societies Grant Program, 2011
- AGU Student Travel Grant, 2011
- UF Department of Geological Sciences Undergraduate Grant Program, 2011

## SKILLS

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- Lithic sketching and analysis
- Ground Penetrating Radar procedure and analysis
- X-ray fluorescence procedure
- Total Station Procedure
- Standard cation exchange column procedure
- Inductively Coupled Plasma Mass Spectrometer analyses
- Rock Preparation for Isotope Data Collection

## WORK EXPERIENCE

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### **Teach For America, Charlotte, NC, August 2012-Present**

#### *Corps Member and 8<sup>th</sup> grade Science Teacher*

- Teacher at Northridge middle school (Title I school) 8<sup>th</sup> grade science
- Taught 150 students each year (earth history, evolution of earth, hydrology, chemistry, energy, and physics)
- Coached a team of 15 students from Northridge for the North Carolina Department of Energy Science Bowl Scholastic Competition in Raleigh
- Coached Fall and Spring Cheerleading

### **Teach For America, Tulsa, OK, Summer 2012**

#### *Corps Member*

- Selected from competitive pool to join national teacher corps of recent college graduates and professionals who commit two years to teach in urban and rural public schools.
- Participate in intensive summer training program to develop the skills and knowledge needed to achieve significant gains in student achievement. Simultaneously teach in summer school program run by Teach For America for students in Oklahoma public schools under the supervision of a faculty of experienced teachers.
- Engage in a full schedule of professional development activities, including seminars in instructional planning, classroom management, learning theory, literacy, and diversity training.

### **UF Department of Geological Sciences, Gainesville, FL, November 2010- June 2012**

#### *Laboratory Assistant*

- Leaching and Total mineral digestion of core sediments
- Cation separation using column chemistry
- Elemental analysis
- Isotopic analysis using MC-ICPMS
- Isotopic analysis using TIMS

### **Scruggs and Carmichael, Gainesville, FL, August 2009-June 2012**

#### *Legal Assistant*

- Clerical Work
- Case Management and Dapix Software work
- Handle monetary transactions

### **Driftwood Community Pool, Hollywood, FL, May 2007-August 2009**

#### *Water Safety Instructor/Lifeguard*

- Ensure the safety of patrons
- Teach swim lessons to children
- Have knowledge of skills in first aid and CPR

## EXTRACURRICULAR EXPERIENCE

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### **Surfrider Foundation UF Chapter, January 2011-July 2012**

#### *Founder and President*

- Oversee an executive board of 12 members in the coordination and planning of monthly environmental events (beach clean-ups, water testing, beach nourishments legislation)
- Raise awareness of coastal preservation at University of Florida and keep members active

- Club has 63 members

### **Geological Science Ambassadors, August 2010- July 2012**

#### *Member and Volunteer*

- Volunteer at local elementary schools to teach students about the geologic cycle
- Judge elementary - highschool science fairs for neighboring schools
- Help coordinate and plan “Can you dig it” an events for children in the community to learn about geology and Earth’s history

### **Sigma Gamma Epsilon Geological Science Honor Society, August 2010-July 2012**

#### *Member and Tutoring Coordinator*

- Tutor lower level geology students
- Maintain a 3.5 GPA

### **UF Scuba Club, August 2008-June 2011**

#### *Historian*

- Help oversee and coordinate one saltwater dive every year
- Keep an accurate photo record and maintain correspondence with members

### **UF Surf Team, August 2008-June 2012**

#### *Member*

- Compete in annual in alumni vs. student challenge
- Compete in NSAA and CSA surfing challenges
- Volunteer at annual surf clinic for children of all ages

## **CERTIFICATIONS & MEMBERSHIPS**

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- American Geophysical Union
- Sigma Gamma Epsilon Geological Science Honor Society
- Lifeguard
- Water Safety Instructor
- First Aid/CPR/AED
- PADI Open Water Scuba Diver
- NAUI Advanced Open Water Scuba Diver