

Sean Smith

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Education

The University of Tennessee, Knoxville

August 2010 – May 2014

Honors: Chancellor's Honors, Summa Cum Laude, Phi Beta Kappa; **GPA: 3.90**

Bachelors of Science in Biochemistry, Cellular, and Molecular Biology, Honors Concentration

Bachelors of Arts in Anthropology, Honors and Disasters, Displacement, and Human Rights Concentrations

Minor in Classical Civilizations

Research Experience

The Rein Lab, National Institutes of Health (Virology)

May 22 – Aug 8, 2013 (40hr/week)

As a full time summer intern I worked in the Rein Virology Lab on a cloning project that engineered a FLAG-tag epitope into a glycoprotein negative mutant construct of the Moloney murine leukemia virus. This project is now being published in the journal PNAS.

The Alexandre Lab, The University of Tennessee Knoxville (Microbiology) Aug 2011 – May 2014 (~5-10hr/week)

As an undergraduate I conducted a project investigating the role of the type VI secretion system (T6SS) in the rhizobacterium *Azospirillum brasilense*.

Anthropology Research in Siem Reap, Cambodia

May 12 – May 31, 2012

In Siem Reap, Cambodia I conducted field research investigating domestic violence in rural communities in collaboration with Build Your Future Today Center. This research was the topic of my undergraduate senior thesis in anthropology.

The Tyska Lab, Vanderbilt University (Developmental Biology)

June – July, 2012 (~9hr/week)

As a volunteer I worked to construct a supported lipid bilayer and conduct an actin gliding motility assay in which individual myosin 1a-mediated actin filament movement was visualized in real time with TIRF microscopy.

The Abbot Lab, Vanderbilt University (Microbiology)

May 2011 – Aug 2011 (~18hr/week)

As a volunteer I worked on a project seeking to understand the ecological relationships between aphids, bacterial symbionts, ants, and predatory wasps and the factors that modulate these interactions.

The Kaas Lab, Vanderbilt University (Neuroscience/Psychology)

May 2011 – Aug 2011 (~12hr/week)

As a volunteer I worked with Dr. Christine Collins on a project that quantified neuron density and distribution in primate brain cortical regions using antibody labeling and flow cytometry.

Presentations and Publications

Poster Presentation at EURECA (Exhibition of Undergraduate Research and Creative Achievement) and Symposium Presentation at the Undergraduate Research Symposium, March 2013; Publication in The University of Tennessee Trace Digital Archive: **Investigating the Role of the Type VI Secretion System in the Rhizobacterium *Azospirillum brasilense***

Poster Presentation at the inaugural Disasters, Displacement, and Human Rights Conference, February 2013 and Publication in the Journal of Undergraduate Anthropology (Issue IV) and The University of Tennessee Trace Digital Archive: **Investigating Patterns of Domestic Violence in the Marginally Urban Communities on the Outskirts of Siem Reap, Cambodia**



Employment

Firgon Outfitters, Founder and Co-Owner

Climb Nashville, East and West Locations
USAC Level 1 Certified Route Setter

July 2014 – present

Head Setter: **June 2015 – October 2015**

Route Setter: **June 2014 – June 2015**

Desk Staff: **Spring 2008 – August 2012**

Route Setter: **January 2016 – present**

Onsight Rock Gym, Knoxville, TN

The National Institute of Health: Research Assistant

May-August, 2013

North Carrick Residence Hall: Resident Assistant

February 21, 2012 – May 2013

The Student Success Center Tutoring Program: Tutor

January 18 – May 2, 2012 (~3hr/week: total = 48 hr)

Disability Services, UTK: Notetaker

August 2011 – December 2011

Community Service/Volunteer Experience

UTK Habitat for Humanity Campus Chapter

October 2011 – May 2014

Positions Held: Fundraising Officer, Collegiate Challenge Trip Leader, Mud Run Race Director, Chapter President

I have gained many skills through my volunteer experience with Habitat for Humanity including basic construction, business, managerial, and leadership skills. As a chief organizer of the Habitat for Humanity Mud Run (formerly the Deep Well Farm Mud Run) I have helped to raise roughly \$10,000 for the Knoxville Habitat for Humanity Affiliate Office between 2012 and 2014.

Shadowing, Heart Lung Vascular Institute of UT Medical Center

February – April 2013 (3hr/each)

Emergency Department Volunteer, UT Medical Center Hospital

November 2011 – May 2012 (3-4hr/wk)

Hospital Volunteer, Siem Reap Provincial Hospital

May 12 – May 31, 2012

Volunteer, Clinic Vols

August 2011 – April 2012 (1hr/wk: total = 24 hr)

Academic Honors and Honor Society Memberships

Selected as a Finalist for the **NIH Oxford-Cambridge Scholars Program**, 2014

Member of the **Phi Beta Kappa Society** (Inducted to the Epsilon Chapter on April 25, 2013)

Awarded the **C.W. Fite Fellowship for Outstanding Professional Promise** by the Department of Biochemistry, Cellular, and Molecular Biology at the University of Tennessee, Knoxville on May 8, 2013

Inductee to the **Eta Sigma Phi** (ή συνουσία φιλελλήνων) **National Honorary Collegiate Society for Students of Latin and Greek**, April 12, 2012

Personal Skills and Interests

Percussionist/Drummer — studied classical percussion, jazz, and rock drumset **2003 – present**

Instructors: Marc Cohen (Nashville, TN), Kyle Jones (World Music Nashville), Johnny Mendoza (Belmont University), Chester Thompson (Belmont University), Keith Brown (The University of Tennessee, Knoxville)

Rock Climber — extensive climbing experience throughout the Southeast U.S. **Fall 2007 – present**

Experience climbing at King's Bluff, Foster Falls, Deep Creek, Leda, Little River Canyon, the Obed, the Red River Gorge, the New River Gorge, Stone Fort, Rocktown, and Horse Pens 40



Professional References

Dr. Alan Rein, Senior Investigator in the HIV DRP Retroviral Replication Lab

Dr. Gladys Alexandre, UTK Biochemistry Professor and Thesis Advisor

Dr. De Ann Pendry, UTK Anthropology Professor and Thesis Advisor

Archie Ellis, Chief Executive Officer, The Breakthrough Foundation

Lance Brock, Owner, Climb Nashville, LLC

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