

ANNA H

GEOGRAPHY: Geographically Flexible, Northern California and Bay Area, Pacific Northwest,

INDUSTRY: Education: General, Engineering, Sales, Scientific Research/Development

EDUCATION

Scripps College, Claremont, CA

Expected graduation: May 2015

B.A., Biophysics

University of Edinburgh, College of Humanities and Social Science, Edinburgh, Scotland

Sep-Dec 2013

HONORS AND AWARDS

2011-2015 James E. Scripps Scholar - four year, half-tuition, merit scholarship

Fall 2011, Fall 2012 Dean's List, Scripps College, Claremont, CA

RESEARCH EXPERIENCE

OFF-CAMPUS RESEARCH

Cross-Sectional Organization of Actin Filaments in *S. pombe* During Cell Division

Jun-Jul 2014

NSF REU, *Physics Department, Lehigh University.*

Advisor : Dr. Dimitrios Vavylonis, Supervisor : Tamara Bidone

Worked on 3-d image analysis of actin filaments in microscopy images of *S. pombe* using Matlab.

Compared actin filament organization in dividing cells to model predictions.

Programming Circumferences of DNA Nanotubes

Jun-Aug 2013

HHMI Claremont Colleges Summer Undergraduate Research Program, *Physics Department, UCSB.*

Advisor : Dr. Deborah K Fygenson.

Investigated the impact of supertwist and use of DNA origami seeds on the formation circumferences of DNA nanotubes.

CO-CURRICULAR RESEARCH

Preliminary investigation of Nucleoplasmin-like protein in *T. thermophila*

Sep-Dec 2014

Molecular Biology Laboratory, *Keck Science Department of the Claremont Colleges.*

Advisor : Dr. Emily Wiley

Investigated putative nucleoplasmin protein localization using GFP tagging expression and fluorescence microscopy. Tested for impact of HDACs on gene expression during cell starvation.

TEACHING EXPERIENCE

Peer Tutor, *Scripps College Dean of Students*, Claremont, CA.

2012-2013

Provided individual and drop-in group tutoring in calculus, pre-calculus, and linear algebra.

PRESENTATIONS

Henderson, A. C. *Organization of Actin Filaments During Cell Division*. July 2014. REU Undergraduate Research Symposium, Physics and Material Science Departments, Lehigh University.

Henderson, A. C. and Macy, G. *Designing the Circumference of DNA nanotubes*. July 2013. Poster Talk, HHMI 5C Undergraduate Summer Research Symposium, Keck Science Department of the Claremont Colleges.