

Taylor Stevens

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EDUCATION

The University of Tennessee, Knoxville, Tennessee (May 2015)

B.Sc. in Honors Biochemistry, minor in Mathematics

Overall GPA / Major GPA: 3.67 / 3.79

Nashville State Community College, Nashville, Tennessee (May 2013)

A.Sc. in Biology

Overall GPA: 4.0

RESEARCH EXPERIENCE

The University of Tennessee, Knoxville, Tennessee

BCMB Research Assistant in the lab of Dr. Elias Fernandez (August 2013 - present)

- Designed and constructed DNA plasmids for expressing recombinant protein in *e. coli*
- Expressed and purified recombinant protein using *e. coli*
- Performed high throughput crystallography screens and optimized successful conditions
- Ran and analyzed molecular dynamics simulations in collaboration with Dr. Tongye Shen (of the BCMB department at UT)

Marquette University, Milwaukee, Wisconsin

REU intern in the lab of Dr. Martin St. Maurice (May 2013-August 2013)

- Expressed and purified recombinant protein using *e. coli*
- Performed coupled-enzyme assays
- Performed non-linear regression analysis to determine kinetic parameters of reactions
- Presented findings in a talk and poster before other REU mentors and participants

RELEVANT SKILLS

- Common wet lab techniques in biochemistry including western blots, enzyme assays, recombinant protein expression and purification, and construction and modification of DNA plasmids
- Writing scientific algorithms in Python using the Numpy, Scipy, and Biopython libraries
- Planning and running molecular dynamics simulations using AMBER force fields
- Analyzing statistical, geometric, and energetic parameters of molecular dynamics trajectories

OTHER ACTIVITIES

- Presented findings from research in REU program at the 2013 Midwestern Enzyme Chemistry Conference poster session
- Member of ASBMB Undergraduate Affiliate Network at the University of Tennessee
- Volunteer at the 2015 Tennessee Science Olympiad
- Cofounder and developer of vidhop.tv (<http://www.vidhop.tv>)