

Taylor Stevens

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EDUCATION

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

B.Sc. in Honors Biochemistry, minor in Mathematics (graduated *magna cum laude*)

Overall GPA / Major GPA: 3.67 / 3.79

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

A.Sc. in Biology (graduated *summa cum laude*)

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 recombinant DNA
- Expressed and purified recombinant protein in *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*
- Measured enzyme kinetics with coupled enzyme assays
- Performed non-linear regression analysis to calculate reaction constants
- Presented findings in a talk and poster before other REU mentors and participants

RELEVANT SKILLS

- Common wet lab techniques including western blots, enzyme assays, recombinant protein expression and purification, and construction and modification of DNA plasmids
- High throughput protein crystal screening and preparing crystals for x-ray diffraction
- Running and analyzing molecular dynamics simulations using AMBER, NAMD and associated tools
- Writing scientific algorithms in Python using the NumPy, SciPy, and Biopython libraries
- Front end and back end web development with PHP, JavaScript, Go, HTML, and CSS

NOTABLE ACCOMPLISHMENTS

- Presented findings REU findings at the 2013 Midwestern Enzyme Chemistry Conference poster session
- Member of ASBMB Undergraduate Affiliate Network at the University of Tennessee
- Cofounder and developer of vidhop.tv (<http://www.vidhop.tv>)
- Founder and developer of structures.fyi (<http://structures.fyi>)
- Recipient of the Tennessee HOPE and Tennessee transfer scholarships