# Mark Stukel

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**EDUCATION**

Degree: Bachelors of Science, Hope College, Holland MI (Graduated December 2015)
Major: Biology
Overall GPA: 3.77/4.00
Honors: Dean's List (7/7 semesters), Magna Cum Laude

**RELEVANT EXPERIENCE**

**Undergraduate Research Assistant** May 2015 – July 2015
Department of Biology, Hope College Holland MI

- Censused bird populations through point counts in the field and wildlife cameras to determine wildlife use patterns at various habitat sites.

**Teaching Assistant** September 2014 – December 2014
Department of Biology, Hope College Holland MI

- Assisted students in the 2014-2015 SEA-PHAGES Program in isolating and purifying novel mycobacteriophages based on previous experience in the class.

**Undergraduate Research Assistant** May 2013 – April 2015
Department of Biology, Hope College Holland MI

- Sequenced partial and full chloroplast genomes to determine population genetic structures of *Liriodendron tulipifera* and *L. chinense*.
- Co-authored and presented 3 poster presentations.

**Undergraduate Research Student** Sep. 2012 – May 2013
Department of Biology, Hope College Holland MI
2012-2013 SEA-PHAGES Program

- Isolated and purified a novel mycobacteriophage.
- Analyzed and annotated the genome of mycobacteriophage Inventum.
- Co-authored and presented 1 poster presentation.

**SKILLS**

**Lab Skills**

- DNA extraction, PCR, Sanger sequencing, Ion Torrent Next Generation sequencing

**Computer Skills**

- Microsoft Office, SPSS Statistics, Java programming, Some R programming

**ACTIVITIES**

Hope College Tri-Beta (Alpha Eta Chapter) / Biology Club

**SUBMITTED MANUSCRIPT**

- Li, J., **M. Stukel**, A. Bekmetjev. Explaining the formation of disjunct species pairs between eastern Asia and eastern North America with plastid genome data: an example from Liriodendron. Submitted to *Journal of Biogeography* (JBI-15-0676).

**PRESENTATIONS**

- "Patterns of DNA Sequence Variation in Plastid Genomes of Species Pairs Between Eastern Asia and Eastern North America: an Example From Tulip Trees (*Liriodendron*)." **M. Stukel**, J. Li, Celebration of Undergraduate Research and Creative Performance, Hope College, Holland MI 2015
- "Population Genetic Structures of Two Sister Tulip Tree Species: Implications for the Diversity Anomaly Between Eastern Asia and North America." **M. Stukel**, J. Li, Michigan Space Grant Consortium Conference, University of Michigan, Ann Arbor, MI 2014
- "Population Genetic Structures of Two Sister Tulip Tree Species: Implications for the Diversity Anomaly Between Eastern Asia and North America." **M. Stukel**, K. Skinner, J. Li, Celebration of Undergraduate Research and Creative Performance, Hope College, Holland MI 2014
- "Isolation of 20 Mycobacteriophages and Genomic Analysis of the Novel Mycobacteriophage, Inventum." **M. Stukel**, A. Best, J. Stukey, et al., Celebration of Undergraduate Research and Creative Performance, Hope College, Holland MI 2013