

**Emma E. Jochim**  
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## EDUCATION

### **BS in Biology**

**May 2020**

### **Minors in Geology and Chemistry**

Millsaps College, Jackson, MS

GPA: 3.94 // Summa Cum Laude

Honors Thesis: Species Delimitation of *Vaejovis* Scorpions from the Santa Catalina Mountains Using Genetic, Morphological, and Geographical Data.

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## RESEARCH EXPERIENCE

**PI: Cory G. Toyota, PhD, Millsaps College; MLST Genotype and *Trichomonas vaginalis* virus Characterization of 37 Samples of *Trichomonas vaginalis* from the American Type Culture Collection, External Lab, and Mississippi. April 2017- August 2018**

Skills acquired:

- Polymerase chain reactions and clean up
- Gel electrophoresis
- DNA sequence editing and phylogenetic tree construction in Geneious
- Determined pairwise similarities using EMBOSS Needle

**PI: Brent E. Hendrixson, PhD, Millsaps College; Species Delimitation of *Vaejovis* Scorpions from the Santa Catalina Mountains Using Genetic, Morphological, and Geographical Data. August 2018-May 2020**

Skills acquired in lab:

- DNA extractions
- Polymerase chain reactions and clean up
- Gel electrophoresis
- DNA sequencing reactions and clean up
- Assessment of morphological features with a microscope

Skills acquired in field:

- Scorpion collection using blacklight and rock-flipping
  - Upkeep of field notebook
  - Databasing and processing specimens
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## PUBLIC OUTREACH

Mississippi Museum of Natural Science's Park After Dark

**October 2019**

Halloween event at which I taught children and their parents about arachnids such as tarantulas, scorpions, and vinegaroons.

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## PRESENTATIONS

**Jochim, Emma E.**, Bravenec, Rachel D., Mardick, Jacob I., Meade, Chris, and Toyota, Cory G. "MLST Genotype and *Trichomonas vaginalis* virus Characterization of 37 Samples of *Trichomonas vaginalis* from the American Type Culture Collection, External Lab, and Mississippi." *Mississippi IDeA Network of Biomedical Research Excellence*. Poster Session, July 2018.

**Jochim, Emma E.**, Bravenec, Rachel D., Mardick, Jacob I., Meade, Chris, and Toyota, Cory G. "MLST Genotype and *Trichomonas vaginalis* virus Characterization of 37 Samples of *Trichomonas vaginalis* from the American Type Culture Collection, External Lab, and Mississippi." *Mississippi Academy of Sciences*. Poster Session, February 2019.

**Jochim, E.E.**, Broussard, L.-L.M., Hendrixson, B. E. Integrative species delimitation and taxonomic status of *Vaejovis* scorpions from the Santa Catalina Mountains, Arizona. *Millsaps College Student Research Symposium*, Oral Presentation, February 2020.

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## PUBLICATIONS

**Jochim, E.E.**, Broussard, L.-L.M., Hendrixson, B. E. (2020). Integrative species delimitation and taxonomic status of the scorpion genus *Vaejovis* Koch, 1836 (Vaejovidae) in the Santa Catalina Mountains, Arizona. *Euscorpius*, 316.

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## GRANTS AWARDED

Dr. Boyd Kynard & Dr. James P. McKeown Fellowship **April 14 2019**  
• Amount awarded: \$800

Honors Research Grant Award **March 8 2019**  
• Amount awarded: \$750

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## SCIENTIFIC SOCIETY MEMBERSHIPS

American Arachnological Society