**Edna Chiang**  
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**EDUCATION**

**University of Wisconsin-Madison** *Sep 2016 - Present*  
 - PhD Candidate, Microbiology Doctoral Training Program, Department of Bacteriology GPA: 4.00/4.00  
 - Advisors: Dr. Garret Suen and Dr. Hannah Carey   
**University of Michigan-Ann Arbor**  *Graduation: Apr 30, 2015*  
 - BS with High Distinction in Microbiology (High Honors) and Spanish GPA: 3.85/4.00

**SELECTED SCIENTIFIC PUBLICATIONS**

**Chiang E**, Schmidt ML, Berry MA, Biddanda BA, Burtner AM, Johengen TH, Palladino D, Denef VJ (2018)  
 Verrucomicrobia are prevalent in north-temperate freshwater lakes and display class-level preferences between  
 lake habitats. *PLoS ONE* 13(3):e0195112.  
Denef VJ, Mueller RS, **Chiang E**, Liebig JR, Vanderploeg HA (2016) Chloroflexi CL500 11 populations that predominate  
 deep lake hypolimnion bacterioplankton rely on nitrogen-rich DOM metabolism and C1 compound oxidation.  
 *Appl. Environ. Microbiol.* 82(5):1423-1432.  
McCarthy A, **Chiang E**, Schmidt ML, Denef VJ (2015) RNA Preservation Agents and Nucleic Acid Extraction Method  
 Bias Perceived Bacterial Community Composition. *PLoS ONE* 10(3):e0121659.

**SELECTED RESEARCH EXPERIENCE**

***Graduate Research Assistant,* Dr. Garret Suen and Dr. Hannah Carey**,University of Wisconsin-Madison  
 - Linked bacterial taxonomy to function in hibernating 13-lined ground squirrels *Jan 2017 – Present*  (*Ictidomys tridecemlineatus*) using next-generation sequencing (amplicon sequencing and metagenomics)  
 - Worked with an interdisciplinary team to performed stable isotope assisted labeling experiments, analyzed  
 amplicon sequencing data and metagenomics  
***Undergraduate Researcher / Lab Technician*, Dr. Vincent Denef**, University of Michigan *Sep 2012 – Aug 2016*  
 - Optimized fluorescent *in situ* hybridization microscopy protocol, extracted DNA/RNA, prepared samples  
 for amplicon sequencing, created cultures, performed limnology field work on the Great Lakes  
 - Applied statistical and bioinformatics techniques to analyze bacterial 16S rRNA data using mother and R

**SELECTED AWARDS**

- NSF Graduate Research Fellowship *Sep 2018 – Aug 2023*  
- NIH Biotechnology Training Program Traineeship *Jan 2017 – Aug 2019*

- University of Wisconsin-Madison Student Research Travel Grant *Sep 2018*

**SKILLS**

- **Lab Skills:** DNA/RNA extraction, PCR, gel electrophoresis, DNA library preparation, Illumina MiSeq sequencing,  
 fluorescent *in situ* hybridization microscopy, field work and sample collection  
- **Computation:** R (advanced), perl (beginner), python (beginner), Microsoft Office Suite, Google Drive, mothur,  
 amplicon sequencing, metagenomics- **Languages:** English (fluent), Spanish (fluent), Mandarin Chinese (intermediate)