**Edna Chiang**  
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**EDUCATION**

**University of Wisconsin-Madison** Madison, WI  
 - Microbiology PhD Candidate, Life Sciences Communication and Biotechnology Minors *Sep 2016 - Present*  
 - Advisors: Dr. Garret Suen and Dr. Hannah Carey GPA: 4.00/4.00  
**University of Michigan**  Ann Arbor, MI  
 - Bachelor of Science with High Distinction *Graduation: Apr 30, 2015* - Microbiology (High Honors) and Spanish GPA: 3.85/4.00  
 - Honors Thesis: Ecology of Verrucomicrobia in a Freshwater Estuary

**SELECTED SCIENTIFIC PUBLICATIONS**

Regan MD, **Chiang E**, Martin SL, Porter WP, Assadi-Porter FM, Carey HV. (2019) Shifts in metabolic fuel use coincide  
 with maximal rates of ventilation and body surface rewarming in an arousing hibernator. *Am. J. Physiol. Regul.  
 Integr. Comp. Physiol.* 316(6):R764-R775. doi: 10.1152/ajpregu.00379.2018. **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. doi:10.1371/journal.pone.0195112 .

**NOTABLE PRESENTATIONS**

Presentation, “Solving the Mysteries of Hibernation.” Kettle Moraine Evening with Nature, Sep 12, 2019,  
 Campbellsport, WI.  
Presentation, “Hibernation: How Do They Survive the Winter?” Science On Tap – Mincoqua, Jan 2, 2019, Minocqua,  
 WI.  
Presentation, “Winter is Coming: A Stark Look at the Hibernator Microbiota.” Microbiology Doctoral Training Program  
 Student Seminar, Sep 26, 2018, Madison, WI

**RESEARCH EXPERIENCE**

***Graduate Research Assistant,* Dr. Garret Suen and Dr. Hannah Carey**,University of Wisconsin-Madison  
 - Investigated microbe-host interactions in hibernating 13-lined ground squirrels *Jan 2017 – Present*  (*Ictidomys tridecemlineatus*) to understand the link between bacterial taxonomy and function  
 - Worked with an interdisciplinary team to perform *in vivo* stable isotope assisted labeling experiments  
 - Increased bioinformatics proficiency by analyzing amplicon sequencing and metagenomic data  
***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  
 - Collected water and sediment sample from Muskegon Lake and Lake Michigan  
 - Applied statistical and bioinformatics techniques to analyze bacterial 16S rRNA data using mother and R

**AWARDS**

- NSF Non-Academic Research Internships for Graduate Students (INTERN) Supplemental Funding *Jul 2019*  
- NSF Graduate Research Fellowship *Sep 2018 – Aug 2023*  
- NIH Biotechnology Training Program Traineeship *Jan 2017 – Aug 2019*

- Dr. Leonard E. Mortenson Graduate Scholarship *Apr 2019*  
- University of Wisconsin-Madison Student Research Travel Grant *Sep 2018*

- Bacteriology Graduate Student Travel Award *May 2018*

- Phi Beta Kappa *Mar 2015*

- Beckman Scholars Fellowship *May 2014 – Aug 2015*

- American Society of Microbiology Undergraduate Research Fellowship *May 2014 – Dec 2014*

**SELECTED OUTREACH EXPERIENCE**

*Science Policy Fellow*, Federation of American Societies for Experimental Biology *May 2019 – Aug 2019*  
 - Worked in the Office of Public Affairs on an NSF advocacy and educational campaign called “NSF Matters”  
 - Helped to coordinate a congressional briefing about NSF-funded research addressing the public health  
 concern of antimicrobial resistance  
 - Contributed articles to the Washington Update newsletter to inform society members of the latest news  
 in science policy and advocacy *Gaining STEAM! Scientist*, JKX Comics, University of Wisconsin-Madison  *Oct 2018 – Present* - Created a comic book about hibernation microbiology by integrating science, story-telling, and art through  
 a collaboration with JKX Comics and local Madison artists  
 - Incorporated the comic into outreach activities to improve participant engagement and learning *Wisconsin Idea STEM Fellow*, University of Wisconsin-Madison *Jun 2018 – Present* - Learned interactive teaching strategies and outreach evaluation techniques  
 - Developed an interactive hibernation microbiology outreach activity for elementary school-aged children  
 - Worked with fellows-in-training to develop and improve their outreach activities  
 - Participated in 10 outreach events (Saturday Science, Wisconsin Science Festival, Science Expeditions)  
***Social Media Manager*, Microbiology Doctoral Training Program**, UW-Madison *Nov 2017 - Present* - Managed Microbiology Doctoral Training Program (MDTP) twitter handle (@UWMadisonMDTP) and  
 facebook page  
 - Increased public recognition by highlight news and work from MDTP trainers and students