Miranda Judd
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410-707-4009

EDUCATION

University of Maryland, Center for Environmental Science, MD *2020-Present*
Institute of Marine and Environmental Technology, Baltimore, MD
Pursuing Ph.D. in Environmental Molecular Science and Technology **GPA: 4.0**

University of Maryland, College Park, MD *2014-2018*
Degree: B.S. Microbiology

Applications and Research Laboratory, Ellicott City, MD *2012-2014*
Career Academy: Biotechnology

PROFESSIONAL EXPERIENCE

Place Lab, Baltimore, MD **Graduate Research Assistant** *2020-Present*
Institute of Marine and Environmental Technology

- Molecular and genetic analysis of dinoflagellates
- Culturing of dinoflagellate species
- Observation and analysis of culture health and characteristics via microscopy
- Microbiological media and reagent preparation; general lab duties
  Supervisor: Allen Place, PhD; (410) 234-8828; place@umces.edu

BioAnalytical Services Lab, Baltimore, MD **Laboratory Assistant** *July 2023*
Institute of Marine and Environmental Technology

- Performance of Next Generation sequencing (Miseq/Illumina)
- Production of metagenomic analysis
- Execution of Sanger Sequencing (3130XL Genetic analyzer)
- PCR product clean-up
- Use of Quibit flex fluorometer
- Management of laboratory services and usage
  Supervisor: Sabeena Nazar; (410) 234-8832; sabeena@umces.edu

University of Maryland Medical Center **Research Assistant** *2018-2020*
Department of Anesthesiology

- Creation of clinical research protocols and lab procedures
- Patient interaction; management and consent
- Management of laboratory materials and ordering
- Conduction of fluorogenic kinetic assays and flow pressure assays
- Statistical and graphic analysis of datasets
- Reagent preparation; general lab duties
  Supervisors: Kenichi Tanaka, MD; LaToya Stubbs, MS

Delwiche Lab, College Park MD **Research Assistant** *2016-2018*
Geneology of Life (GoLife) funded by NSF: Focused on the genealogy of the SAR taxa

- Deconvolution microscopy of dinoflagellate species
- Staining of protists for fluorescent and light microscopy
- Single-celling protists from environmental samples

- Culturing of dinoflagellate and algal species
- Microbiological media and reagent preparation; general lab duties
  Supervisors: Charles Delwiche, PhD; Brittany Ott, PhD

USDA-ARS, Beltsville MD **Intern** *2013-2014*

Research Project: Development and characterization of Calonectria pseudonaviculata mutant strains

- Development of *Calonectria pseudonaviculata* mutants through ultra violet and N-methyl-N′-nitro-N- nitrosoguanidine random mutagenesis in order to identify phenotypic changes.
- DNA extractions and DNA sequencing; gel electrophoresis.
- Phenotypic characterization and experimentation of *C. pseudonaviculata* mutant strains testing their response to stress conditions and level of pathogenicity.
- Microbiological media and reagent preparation, general lab duties
  Supervisors: Martha Malapi-Wight, PhD; Yazmin Rivera, PhD; Jo Anne-Crouch, PhD

PROFESSIONAL SERVICE

Graduate Student Association President *2021-2022*
Institute of Marine and Environmental Technology, Baltimore, MD
Graduate Student Organization Member *2021-2022*
Marine-Estuarine Environmental Sciences Graduate Program, Baltimore, MD

HONORS

NOAA-NCCOS Travel Award *2023*
Woods Hole Oceanographic Institute Travel Award
Reid Evans Menzer Memorial Graduate Award *2023*
University of Maryland, MEES Graduate Office
2nd Place 3-Mt Lightning Talk *2022*
MEES (USM) Annual Colloquium
Best Poster Honorable Mention *2022*
U.S. Symposium of Harmful Algae
IMET Innovations in Science Program Award *2020*
Institute of Marine and Environmental Science, Baltimore, MD
Dean's Fellowship *2020*
University of Maryland Graduate School, College Park
Appleman-Norton Award for Outstanding Student in Plant Science *2018*
University of Maryland, Cell Biology and Molecular Genetics Department
Deans List of Outstanding Students *2015-2018*
University of Maryland, College Park
APS-Potomac Division, Research Poster Presentation Award *2014*
Annapolis, MD

FIRST AUTHOR PUBLICATIONS

Judd M, Place A.R., A Strategy for Gene Knockdown in Dinoflagellates. Microorganisms. 2022. (*Print*).

Judd M, Strauss E, Hasan S, Abuelkasem E, Li J, Deshpande S, Mazzeffi MA, Ogawa S, Tanaka KA. Clotting Time Results Are Not Interchangeable Between EXTEM and FIBTEM on Rotational Thromboelastometry. Journal of Cardiothoracic and Vascular Anesthesia. 2019. (*Print*).