

# Justin T. Berg

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## Education

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University of Hawai‘i – Mānoa  
Marine Biology Graduate Program – Doctorate of Philosophy      August 2022 – Current  
GPA: 4.0

University of Guam, Mangilao, Guam      August 2018-April 2022  
Master of Science- Biology  
Graduate Research Assistant - National Science Foundation: Established Program to Stimulate  
Competitive Research Grant (EPSCoR)  
University of Guam Graduate Student of the Year Award 2020  
GPA: 4.0

University of Delaware, Newark, DE      August 2012-May 2017  
Majors: Biology, Pre-Veterinary Medicine and Animal Biosciences  
Minor: Chemistry  
Global Scholar Award Scholarship 2012-2016  
Delaware Equine Council Scholarship 2016  
GPA: 3.25

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## Work Experience

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January 2023 – Current  
Teaching Assistant – University of Hawai‘i – Mānoa – Science of the Seas – OCN201L

August 2022 – December 2022  
Teaching Assistant – University of Hawai‘i – Mānoa – Advanced Topics in Marine Biology –  
BIO404L

August 2021- May 2022  
University of Guam Adjunct Instructor – Introduction to Biology Lab – BI100L

January 2021 – May 2021  
University of Guam Adjunct Instructor– Invertebrate Zoology Lab – BI303L

July 7, 2020 – August 2021

Datathon Participant for the Genomics Observatory METadatabase (GEOME), the Diversity of the Indo-Pacific Network (DIPnet), and Ira Moana Project

Uploading geospatial and collection metadata to GEOME for eukaryotic populations in the Sequence Read Archive of NCBI/INSDC

June 4, 2018 - July 16, 2018

Research Technician at the University of Southern Mississippi

Molecular Microbial Ecology of Artificial Reefs in the Gulf of Mexico

August 2017 - June 2018

Reef Restoration Intern at Mote Marine Laboratory, Elizabeth Moore International Center for Coral Reef Research & Restoration in Summerland Key, Florida

Water quality testing, maintenance, microfragmenting, outplanting of corals including *Acropora palmata*, *Orbicella faveolata*, and *Montastraea cavernosa*

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## Publications/ Research

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Crandall, E. D., Toczydlowski, R. H., Liggins, L., Holmes, A. E., Ghoojaei, M., Gaither, M. R., Wham, B. E., Pritt, A. L., Noble, C., Anderson, T. J., Barton, R. L., Berg, J. T., Beskid, S. G., Delgado, A., Farrell, E., Himmelsbach, N., Queeno, S. R., Trinh, T., Weyand, C., ... Toonen, R. J. (2023). The importance of timely metadata curation to the global surveillance of genetic diversity. *Conservation Biology*, 00, 00–00.

<https://doi.org/10.1111/cobi.14061>

Oral presentation on “Here’s the Dirt: Sedimentation Effects on Coral Microbiomes” at Ocean Science Meeting  
-March 2022

Fifer JE, Bui V, Berg JT, Kriefall N, Klepac C, Bentlage B and Davies SW (2022) Microbiome Structuring Within a Coral Colony and Along a Sedimentation Gradient. *Front. Mar. Sci.* 8:805202. doi: 10.3389/fmars.2021.805202

Toczydlowski, R. H., Liggins, L., Gaither, M. R., Anderson, T. J., Barton, R. L., Berg, J. T., ... Crandall, E. D. (2021). Poor data stewardship will hinder global genetic diversity surveillance. *Proceedings of the National Academy of Sciences*, 118(34), e2107934118.  
<https://doi.org/10.1073/pnas.2107934118>

Oral presentation on “Here’s the Dirt: Sedimentation Effects on Coral Microbiomes” at International Coral Reef Symposium  
-July 2021

Oral presentation on “Here’s the Dirt: Sedimentation Effects on Coral Microbiomes” at the Mariana’s Terrestrial Conservation Conference  
-June 17, 2021

Oral presentation on “Here’s the Dirt: Sedimentation Effects on Coral Microbiomes” at the International Tropical Islands Water Conference  
-April 13, 2021

Berg, J. T., David, C. M., Gabriel, M. M., & Bentlage, B. (2020). Fluorescence signatures of persistent photosystem damage in the staghorn coral *Acropora cf. pulchra* (Anthozoa: Scleractinia) during bleaching and recovery. *Marine Biology Research*, 16(8–9), 643–655. <https://doi.org/10.1080/17451000.2021.1875245>

Poster Presentation at the National EPSCoR Conference in Columbia, SC  
-October 29, 2019

Poster Presentation at the Pacific Islands Environment Conference in Guam  
-June 24, 2019

Oral Presentation at the Center for Island Sustainability Conference in Guam  
-April 10, 2019

Poster Presentation at the Equine Science Society Conference in Minneapolis, MN  
-June 2, 2017

Berg, J.T., et al. “Equine microbiome project: Understanding differences in the horse gut microbiome related to diet.” *Journal of Equine Veterinary Science* 52 (2017): 94. Poster. May. 2017.

Chambers, B. M., et al. “Optimization of molecular techniques for the identification of small strongyles.” *Journal of Equine Veterinary Science* 52 (2017)., 59. Poster. May. 2017.

Poster Presentation at the Mid Atlantic Nutrition Conference in Maryland  
-April 6, 2017

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## **Education Affiliations/ Volunteer Work**

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University of Guam Phi Kappa Phi Member (2021-2022)

University of Guam Marine Laboratory Graduate Student Representative (2019 – 2021)

Animal Science Club Member (2013-2016)

Member of Alpha Phi Omega Delaware Chapter (2014-2016)

-Pledge Master Spring (2015)

AGcelereate Mentoring Program - Mentor (2013-2015)

Teaching Assistant for Intro to Animal Science Lab (2014)

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## **Skills**

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Skilled in coral husbandry and reproduction (branching and massive species)

Water quality testing and maintenance for coral health

Hands on experience with domestic and farm animals

Rescue Diver – NAUI (2018)

Emergency First Response/ CPR / Emergency Oxygen Provider (2018)

Advanced Open Water Certification – PADI (2017)

Peak Performance Buoyancy, Navigation, Wreck, Deep Diver, and Search and Recovery Diving  
Specialties – PADI (2017)