# Adam Hallaj

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#### Education

December 2019

B.S. in Biology, College of Science and Mathematics, Temple University, Philadelphia PA

# **Relevant Professional Experience**

March 2020 - Present Lab Technician with the Bernal Laboratory, Auburn University.

- Successful routine execution of DNA/RNA isolation and qPCR amplification SOPs.
- Compilation of monthly spending statement reports.
- Supervisor of chemical inventory and hazardous waste disposal using Chematix, Auburn University's chemical inventory application.
- Oversight and administration of biological, chemical, and lab safety training for all lab personnel.
- Submit work orders for essential routine lab equipment maintenance.
- Maintain consistent stock of consumables, reagents, and PPE.
- Shipment and reception of sensitive samples and hazardous materials in compliance with university and shipping partner protocols.
- Assembly of Lutjanus synagris transcriptome using the Alabama Supercomputer.

June 2017 - January 2020

**Undergraduate Researcher** with the Cordes Laboratory, Temple University.

- Assist in designing, setting up, and conducting ecological experiments in aquaria.
- Successful routine RNA isolation and quality analysis for lab-wide transcriptome projects.
- Routine autoclave sterilization of equipment and glassware.
- Filtration of eDNA from water samples for aquatic diversity surveys.
- Water chemistry analysis with a Mettler Toledo DL15 to assess total alkalinity of water samples acquired from fieldwork and in-lab experiments.

## **Field Work**

October 2018

Costa Rica Margin Expedition (ROCHITS) aboard the R/V Atlantis with HOV Alvin. 10 days at sea. Chief Scientist: Erik Cordes.

- Identified and processed deep-sea biological samples collected during submarine dives.
- Assisted in the deployment and retrieval of CTD rosettes, analyzed accompanying data, and preserved water samples for further lab analysis.
- Set up and managed portable water filtration system to provide fresh seawater for live samples.

## **Experimental Experience**

Published. Scientific Reports

Cold water coral response to multiple stressors: High temperature affects recovery

from short term pollution exposure

Weinnig A.M., Hallaj A., Gomez C.E., Cordes E.E.

- Aquarium maintenance.
- Perform RNA extractions for transcriptomic analysis.

Coral Reefs

Manuscript Submitted, Effects of temperature increase on the metabolic performance of the cold-water coral Lophelia pertusa

Gomez C.E., Gori A., Weinnig A.M., Hallaj A., Keller A., Cordes E.E.

- Perform incubations with live coral to assess changes in excretion, respiration, and feeding rates.
- Aquarium maintenance.
- Statistical analysis of resulting data using excel and R.

## **Presentations**

April 2019

Physiological Response of the Cold-Water Coral Lophelia pertusa to short term temperature changes at the Symposium for Undergraduate Research and Creativity

## References

Erik E. Cordes, Ph.D.

Biology Professor, Temple University

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# Moisés A. Bernal, Ph.D.

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