

**Woods Hole Oceanographic Institution
2022 Summer Student Fellows
Research Projects**

Muhammad Haikal Ezhar bin Abu Bakar, University of Colorado Boulder

Last Millennium Reconstruction of Thermocline Variability in the Makassar Strait, Indonesia – Implications for Large Scale Winds

Advisor: Delia Oppo, Geology and Geophysics

Annabella Amato, University of California, Los Angeles

Net Community Production in the Subtropical North Atlantic: Modeling and Observations

Advisors: David Nicholson and Hyewon Heather Kim, Marine Chemistry and Geochemistry

Cassandra Bartels, Barnard College of Columbia University

Old, cold and sometimes far away: the Altiplano-Puna Magma Body and carbon release dynamics throughout the Central Volcanic Zone and the Andean Convergent Margin

Advisors: Peter Barry and Sune Nielsen, Marine Chemistry and Geochemistry, and Geology and Geophysics

Jaida Buchanan, University of Massachusetts Amherst

Shortfin Mako Shark Habitat Suitability within Offshore Wind Farms

Advisor: Camrin Braun, Biology

Kayla Cayemitte, Ursinus College

Ramicrusta: The New Threat to Corals in the Caribbean

Advisor: Amy Apprill, Marine Chemistry and Geochemistry

Jean Clemente, Bowdoin College

Timing the Paleozoic oxygenation of the deep ocean using thallium isotopes

Advisors: Sune Nielsen and Peter Barry, Geology and Geophysics, and Marine Chemistry and Geochemistry

Ashley De La Torre, University of California, Davis

Comparative study (Fundulus heteroclitus and Danio rerio): Exploring the role of AIP in early life stages Advisor: Mark Hahn, Biology

Rachel Einecker, Arizona State University

Iron Cycling May Lower Methane Fluxes at an Impounded Marsh: Evidence from the Herring River Estuary

Advisor: Meagan Eagle, U.S. Geological Survey

Ryan Galusha, California Polytechnic State University

Rapid Prototyping and Low-Cost Sensor Development

Advisor: Matthew Long, Marine Chemistry and Geochemistry

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Rohan Gowda Thanh Quang, Pomona College

Assessing the economic potential for a mesopelagic fishery as an additional source of fishmeal for global aquaculture

Advisor: Di Jin, Marine Policy Center

Audrey Grimes, Middlebury College

Observing Spatial Variability of Offshore Wind Patterns in the Cape Cod Region

Advisor: Anthony Kirincich, Physical Oceanography

James Heiser, University of Tampa

Immune Responses of a Mud Crab Host to a Novel Body-Snatching Parasite

Advisor: Carolyn Tepolt, Biology

Prajna Jandial, Vellore Institute of Technology

Quantifying Noise Response of Squid Schools

Advisor: Yogesh Girdhar, Applied Ocean Physics and Engineering

Namitha Kumar, University of Michigan

Determining the Strength of the Oceanic Crust: A Geochemical and Microstructural Investigation of ODP Hole 735B, Southwest Indian Ridge

Advisor: Veronique Le Roux and Andrew Cross, Geology and Geophysics

Lilian Lucas, University of Illinois at Urbana-Champaign

Geological mapping in the deep ocean using structure-from-motion photogrammetry

Advisors: Uri ten Brink and Jason Chaytor, U.S. Geological Survey

Helena Lyng-Olsen, Yale University

Determining the Economic Viability of Ocean-Based Carbon Dioxide Removal with Seaweed Farms

Advisor: Hauke Kite-Powell and Yaqin Liu, Marine Policy Center

Guransh Mann, University of Arizona

Elevator Controls for an Autonomous Underwater Glider

Advisor: Richard Camilli, Applied Ocean Physics and Engineering

Alexis Mullen, Bowdoin College

Uncovering Circulatory Pathways in the Indian Ocean: Investigating the Pathways of Red Sea Overflow Waters to the South Atlantic

Advisor: Viviane Menezes, Physical Oceanography

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Kimberly Nuñez, Macaulay Honors College at John Jay College of Criminal Justice
Determining Changes in Benthic Community Structure at HAUSGARTEN I 2008-2018
Advisor: Kirstin Meyer-Kaiser, Biology

Nimrod Rozen, University of Victoria
A Deeper View of the North-Pacific: Transport and Spreading Pathways at 1000 Metres According to Argo
Advisors: Irina Rypina, Alison Macdonald and Sachiko Yoshida, Physical Oceanography

Jack Ryan, University of Massachusetts Lowell
REMUS Vehicle Oil Compensation Systems
Advisor: Carl Hartsfield, Applied Ocean Physics and Engineering

Ashley Scheffler, Haverford College
Oxygen Minimum Zones in the California and Humboldt Upwelling Systems Linked to Hadley Circulation
Advisor: Caroline Ummenhofer, Physical Oceanography

Madeline Sowinski, Hamline University
Comparison of ICESat-2 and SMOS Sea Ice Thickness in the Ross Sea
Advisor: Ted Maksym, Applied Ocean Physics and Engineering