Name: JULIA C. NOTAR

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Box 90338, Biological Sciences Building

Durham, NC 27708

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## **EDUCATION**

2022 **Duke University**, PhD, Biology

Dissertation: Vision and Light-Guided Behavior in Sea Urchins and Brittle Stars

Major Advisor: Dr. Sönke Johnsen

2016 UCLA, MS, Biology

Master's Thesis: A Comparative Study of Sea Urchin Visual Ecology

Major Advisor: Dr. Malcolm S. Gordon

2009 UCLA, BS, Marine Biology

## **PUBLICATIONS**

2017

**Notar, JC**, Meja, B, and Johnsen, S. (2022). Testing Mechanisms of Vision: Sea Urchin Spine Density Does Not Correlate with Vision-Related Environmental Characteristics. *Integrative and Comparative Biology*, icac119, doi: 10.1093/icb/icac119

Gordon, MS and **Notar, JC.** (2015). Can Systems Biology Separate Evolutionary Analogies (Convergent Homoplasies) From Homologies? *Prog. Biophys. Mol. Biol.* 117 (2015), 19-29. doi: 10.1016/j.pbiomolbio.2015.01.005

**Notar, JC** and Gessow, J. (2009). Ecology of an intertidal leech: expanding the range of *Malmiana buthi*. Abstracts of the Annual Meeting of the Southern California Academy of Sciences. *Bull. So. Cal. Acad. Sci.*, 108(2), 112. doi: 10.3160/0038-3872-108.2.70

# **GRANTS AND FELLOWSHIPS (SELECTED)**

GIGHTIE	THILD I EEEO WOITH & (CEEECTED)
2021	Jo Rae Wright Fellowship for Outstanding Women in Science (\$5,000), The Graduate
	School, Duke University
2021	International Dissertation Research Travel Award (\$3,000), The Graduate
	School, Duke University
2021	Grant-in-Aid (\$1,000), Biology Department, Duke University
2020	Grant-in-Aid (\$1,000), Biology Department, Duke University
2019	Lerner-Gray Grant for Marine Research (\$3,106), Richard Gilder Graduate
	School, American Museum of Natural History
2019	Grant-in-Aid (\$1,000), Biology Department, Duke University
2018	Graduate Student Training Enhancement Grant (\$3,332), Office of the Vice
	Provost for Interdisciplinary Studies, Duke University
2018	Grant-in-Aid of Research (\$700), Sigma Xi Society
2017-21	NDSEG Fellowship (\$153,000), Air Force Office of Scientific Research, US
	Department of Defense

Robert L. Fernald Endowed Fellowship (\$3,500), Friday Harbor Laboratories,

University of Washington

2015 **Research/Travel Award** (\$2,000), Department of Ecology and Evolutionary Biology, UCLA

#### HONORS AND AWARDS

2021	Honorable Mention, Mary Price Award for Best Student Presentation Division of Invertebrate Zoology, Society for Integrative and Comparative Biology Annual Virtual Meeting
2020	2 <sup>nd</sup> Place Lightning Talk Duke VisionFest 2020, Duke University
2019	<b>Dean's Award for Inclusive Excellence in Graduate Education</b> , as a member of the Biology Department's <b>Graduate Student IDEA Committee</b> , on behalf of the Ph.D. Program in Biology The Graduate School, Duke University
2016	1 <sup>st</sup> Place Graduate Student poster 19 <sup>th</sup> Annual Biology Research Symposium, Department of Ecology and Evolutionary Biology, UCLA
2015	Schechtman Teaching Award for Outstanding Merit in Instruction

## **RESEARCH POSITIONS**

2015	Graduate Student Researcher
	Gordon Laboratory, Department of Ecology and Evolutionary Biology, UCLA
2014	Research Assistant
	Gordon Laboratory, Department of Ecology and Evolutionary Biology, UCLA
2010-13	Whale Photo ID Intern and Volunteer Researcher
	Aquarium of the Pacific, Long Beach, CA
2010	Research Assistant
	Shipe Laboratory, Department of Ecology and Evolutionary Biology, UCLA

Department of Ecology and Evolutionary Biology, UCLA

## **FIRST-AUTHOR PRESENTATIONS (SELECTED)**

(\* = POSTER)

2022 Learning with a Decentralized Nervous System in the Brittle Star Ophiocoma echinata Notar, JC, Go, M, and Johnsen, S
International Congress of Neuroethology 2022, Lisbon, Portugal

2022 Classical Conditioning in an Animal Without a Brain, the Brittle Star Ophiocoma echinata

**Notar, JC**, Go, M, and Johnsen, S Animal Behavior Society Annual Meeting, San Jose, Costa Rica

2022 Training Animals Without Brains: Brittle Stars Exhibit Associative Learning

Notar, JC, Go, M, and Johnsen, S

Society for Integrative and Comparative Biology Annual Virtual Meeting

2021 A Living Shag Rug: Sea Urchin Spine Density Differs by Habitat and has Consequences for Vision **Notar, JC**, Meja, B, and Johnsen, S
Society for Integrative and Comparative Biology Annual Virtual Meeting

Honorable Mention, Mary Price Award for Best Student Presentation, Division of Invertebrate Zoology

2020 Trends in Spatial Acuity Across the Sea Urchins\*

Notar, JC and Johnsen, S

Society for Integrative and Comparative Biology Annual Meeting, Austin, TX

2020 Sea Urchins: Sight Without Eyes

Notar, JC

Duke VisionFest 2020, Duke University, Durham, NC

Second place, Lightning Talk Competition

2019 Sea Urchin Vision in Featureless vs. Spatially Complex Environments

Notar, JC and Johnsen, S

Society for Integrative and Comparative Biology Annual Meeting, Tampa, FL

2018 Seeing without eyes: Exploring the visual ecology of sea urchins

Notar, IC

Invited seminar, Whitney Laboratory for Marine Bioscience, University of Florida, St. Augustine, FL

2018 Do (Eyeless) Sea Urchins have Color Vision?

**Notar, JC** and Johnsen, S

Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA

2017 Future Directions in the Whole Body Eye of Sea Urchins: Effects of Phylogeny, Light Intensity, and Spine Density

Notar, JC and Gordon, MS

Society for Integrative and Comparative Biology Annual Meeting, New Orleans, LA

2016 A Comparative Study of Sea Urchin Visual Ecology\*

Notar, JC and Gordon, MS

19<sup>th</sup> Annual Biology Research Symposium, Department of Ecology and Evolutionary Biology, UCLA

1st Place, Graduate Student Poster

2016 A Comparative Study of Sea Urchin Visual Ecology\*

Notar, IC and Gordon, MS

Society for Integrative and Comparative Biology Annual Meeting, Portland, OR

## CO-AUTHORED CONFERENCE ABSTRACTS

(\* = Undergraduate mentee)

2021 Insects go with the flow: A mathematical model of induced flow and cooling during flight

Meja, B\*, **Notar**, **IC**, and Johnsen, S

Society for Integrative and Comparative Biology Virtual Annual Meeting

2020 Associative learning in the brittle star Ophioderma brevispinum

Go, M\*, **Notar**, **JC**, and Johnsen, S

Society for Integrative and Comparative Biology Annual Meeting, Austin, TX

## **TEACHING EXPERIENCE (SELECTED)**

2019-2022 Certificate in College Teaching Program

The Graduate School, Duke University

2018 Guest Lecture: Answering Biological Questions Using Circular Data and Analysis in R

Duke Data Expedition, Information Initiative @ Duke, Duke University

2012-22 Graduate Teaching Assistant, Teaching Associate

Biology Department, Duke University<sup>1</sup>

Department of Ecology and Evolutionary Biology, UCLA<sup>2</sup> Department of Integrative Biology and Physiology, UCLA<sup>3</sup>

Courses include: Genetics & Evolution<sup>1</sup>, Animal Environmental Physiology<sup>2</sup>, Biology of Vertebrates<sup>2</sup>, Biology of Invertebrates<sup>2</sup>, Experimental Marine Invertebrate Biology<sup>2</sup>, Biology of Marine Tetrapods<sup>2</sup>, Field Marine Ecology<sup>2</sup>, Living Ocean<sup>2</sup>, Introduction to Ecology & Behavior<sup>2</sup>, Biology of Marine Tetrapods<sup>2</sup>, Advanced

Experimental Statistics<sup>3</sup>

# MENTORSHIP (SELECTED)

2021-22 Trinity College Peer Mentoring Fellow

Duke Interdisciplinary Studies, Duke University

Women in Science and Engineering Graduate Mentor

Biology Department, Duke University

2015-22 **Graduate Student Advisor** to undergraduate lab mentees

Biology Department, Duke University

Department of Ecology and Evolutionary Biology, UCLA

#### **SERVICE (SELECTED)**

2020-21 Graduate Student Representative on the faculty AJED (Action for Justice,

Equity, and Diversity) Committee Biology Department, Duke University

2019-20 Graduate Student Representative on the faculty Task Force on Graduate

Admissions and Recruitment Biology Department, Duke University

2016-21 IDEA (Inclusion, Diversity, Equity, & Anti-Racism) Committee

Biology Department, Duke University

2016-Present Dive Control Board

Duke University

## **OUTREACH AND SCIENCE COMMUNICATION (SELECTED)**

2018-19 **Exhibiting Scientist** 

Art of a Scientist, Duke University

2016-17 Educator Outreach Liaison

Scientific Research and Education Network (SciREN) Triangle, Durham, NC

## **PROFESSIONAL SOCIETIES**

Society for Integrative and Comparative Biology (SICB), Animal Behavior Society (ABS), Sigma Xi