

# Alexandria Marquardt

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## EDUCATION

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<b>Ph.D. Marine Science</b> , Virginia Institute of Marine Science, Gloucester Point, VA	2020-Pres
<b>M.S. Biological Sciences</b> , California Polytechnic State University, San Luis Obispo, CA With Distinction, GPA 3.90	2017-2020
<b>B.S. Fisheries &amp; Wildlife Science <i>Cum laude</i></b> , Oregon State University, Corvallis, OR Undergraduate Research Fellow, GPA 3.65	2010-2013

## PUBLICATIONS ^denotes undergraduate mentee

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- 2) **Marquardt, A**, S Park<sup>^</sup>, E Maietta<sup>^</sup>, N Clark<sup>^</sup>, G Waltz, L Needles, B Ruttenberg. 2023. Status of intertidal populations of Pismo clams (*Tivela stultorum*) across their range in California. Reg Stud Mar Sci 103063. <https://doi.org/10.1016/j.risma.2023.103063>
- 1) **Marquardt, A**, N Clark<sup>^</sup>, E Maietta<sup>^</sup>, S Park<sup>^</sup>, B Ruttenberg. 2022. Reproduction, body condition, age, and growth of a large sandy intertidal bivalve, *Tivela stultorum*. Aquat Biol 31:19-30. <https://doi.org/10.3354/ab00749>

## FELLOWSHIPS

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2022-24	Graduate Research Fellowship; Virginia Sea Grant (\$80,000)
2021-22	Kelly Watson Fellowship; VIMS
2021-22	Commonwealth Coastal Research Fellowship; VIMS
2021-22	Tidewater Oyster Gardeners Association Fellowship; VIMS Foundation
2020-22	Provost Distinguished Graduate Fellowship; VIMS
2020-21	Tidewater Oyster Gardeners Association Fellowship; VIMS Foundation
2020-21	Phyllis L. Cothran and Arnold L Stolberg Fellowship; VIMS Foundation

## RESEARCH GRANTS

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2022	Fisheries Improvement Fund; Virginia Marine Resources Commission (\$77,209)
2021	COA Grants to Malacology; Conchologists of America (\$1,685)
2021	Oyster Education, Technology and Monitoring Award; Chesapeake Bay Trust (\$5,000)
2019	COAST Graduate Student Research Award; Cal State University System (\$3,000)
2018	Myers Oceanographic and Marine Biology Trust (\$1,200)

## AWARDS

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2023	Student Travel Grant; VIMS Academic Affairs
2023	Field Course Financial Aid; Friday Harbor Laboratories, University of Washington
2023	Women of Influence; William & Mary
2022	Student Travel Grant; VIMS Academic Affairs
2022	Thurlow C. Nelson Outstanding Oral Presentation; National Shellfisheries Association
2020-21	Graduate Research Assistantship; VIMS
2019	Thurlow C. Nelson Outstanding Oral Presentation; National Shellfisheries Association
2019	Student Travel Award; National Shellfisheries Association
2019	COAST Student Travel Award; California State University
2018	Student Travel Award; Western Society of Naturalists
2018	Graduate Presentation Award; Cal Poly
2018-19	Rich and Arnie Leggett Scholarship; Cal Poly
2018-19	Graduate Assistantship Award; Cal Poly
2018-19	Out of State Tuition Waiver; Cal Poly
2017-18	Rich and Arnie Leggett Scholarship
2018	Graduate Presentation Award; Cal Poly
2017-18	Graduate Assistantship Award; Cal Poly

2017-18 Out of State Tuition Waiver; Cal Poly  
 2017 Sponsored; Taxonomic Identification of Harmful Algae in U.S. Waters Course  
 2013-14 Undergraduate Research, Innovation, Scholarship and Creativity Grant; OSU  
 2012 Vivian Shriver-Thompson Scholarship; OSU  
 2009 Heidi James Memorial Intern Award; Northwoods Wildlife Center

**PROFESSIONAL POSITIONS**

<b>Graduate Researcher;</b> Virginia Institute of Marine Science	05/20 – Pres
<b>Graduate Researcher;</b> California Polytechnic State University	09/17 – 05/20
<b>Oyster Farm Technician;</b> Grassy Bar Oyster Company	03/19 – 03/20
<b>Marine Phytoplankton Specialist (NRS-1);</b> Oregon Department of Fish and Wildlife	04/17 – 08/17
<b>Marine Biotoxin Specialist (NRS-1);</b> Oregon Department of Fish and Wildlife	06/16 – 03/17
<b>Juniper Obligate Technician;</b> Wyoming Game & Fish Department	05/16 – 06/16
<b>Bat Technician;</b> Wyoming Game & Fish Department	05/15 – 09/15
<b>Deer Capture Technician;</b> Pennsylvania Game Commission	01/15 – 04/15
<b>Experimental Biology Aide (OASIS Project);</b> Oregon Department of Fish & Wildlife	09/14 – 12/14
<b>Shellfish Sampling and Data Technician;</b> Oregon Department of Fish and Wildlife	09/13 – 09/14
<b>Biological Technician (prairie dog/plague research);</b> United States Forest Service	06/13 – 09/13

**INVITED PRESENTATIONS** \*denotes presenter

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1) \***Marquardt, A** (2022, June). Distribution and demographics of fossil oysters on the Atlantic continental shelf. Wageningen University and Research. Yerseke, Netherlands.

**ORAL PRESENTATIONS** \*denotes presenter ^denotes undergraduate mentee

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13) \***Marquardt, A**, M Southworth, and R Mann. (2024, April). Oyster allometry: Growth relationships vary across space. Benthic Ecology Meeting. Charleston, SC.

12) \*Mann, R, M Southworth, M Tarnowski, J Wesson, **A Marquardt**, and J Harding. (2023, March). Revisiting the Newell number – estimating pre-colonial oyster abundance and ecological services in the Chesapeake Bay. National Shellfisheries Association. Baltimore, MD.

11) \*Southworth, M, J Wesson, A Button, R Mann, **A Marquardt**, and A Scheld. (2023, March). Rotational management of oyster harvest in the Rappahannock River, Virginia: 15 years onward. National Shellfisheries Association. Baltimore, MD.

10) \***Marquardt, A**, R Mann, and E Powell. (2022, March). Distribution and demographics of fossil oysters on the Atlantic continental shelf. Aquaculture. San Diego, CA.

9) \***Marquardt, A**, M Southworth, and R Mann. (2022, March). Estimating post-settlement growth and survival in eastern oysters *Crassostrea virginica* in the Chesapeake Bay. Aquaculture. San Diego, CA.

8) \***Marquardt, A**, ^S Park, ^N Clark, ^E Maietta, and B Ruttenberg. (2021, March). Pismo clams in California: Growth and reproduction of an iconic species. National Shellfisheries Association. Virtual.

7) \*^Clark N, **A Marquardt**, ^E Maietta, and B Ruttenberg. (2020, November). Age and growth of the Pismo clam (*Tivela stultorum*) in California. Western Society of Naturalists. Virtual. Speed talk.

6) \*^Clark N, **A Marquardt**, E Maietta, and B Ruttenberg. (2020, October). Age and growth of the Pismo clam (*Tivela stultorum*) in California. Pacific Coast Shellfish Growers Association. Virtual.

5) \*^Park S, **A Marquardt**, and B Ruttenberg. (2019, October). Assessing life history parameters of the Pismo clam, *Tivela stultorum*, on Pismo Beach, CA. Western Society of Naturalists. Ensenada, MX.

- 4) \***Marquardt, A**, ^S Park, ^N Clark, ^E Maietta, ^E De Luca, ^D Almaguer, G Waltz, and B Ruttenberg. (2019, October). Distribution, abundance, and habitat associations of the Pismo clam (*Tivela stultorum*) in California. Western Society of Naturalists. Ensenada, MX.
- 3) \***Marquardt, A**, ^S Park, ^N Clark, ^E Maietta, ^E De Luca, ^D Almaguer, G Waltz, L Needles, and B Ruttenberg. (2019, September). Population trends and reproductive cycles of the Pismo clam (*Tivela stultorum*) in California. Pacific Coast Shellfish Growers Association. Portland, OR.
- 2) \***Marquardt, A**, ^S Park, ^D Almaguer, G Waltz, L Needles, and B Ruttenberg. (2019, March). Population trends and abundance of Pismo clams (*Tivela stultorum*) in California. Aquaculture. New Orleans, LA.
- 1) \***Marquardt, A**, ^S Park., ^D Almaguer, G Waltz, L Needles, and B Ruttenberg. (2018, November). Population trends and abundance of Pismo clams (*Tivela stultorum*) in California. Western Society of Naturalists. Tacoma, WA.

#### **POSTER PRESENTATIONS** \*denotes presenter ^denotes undergraduate mentee

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- 9) \***Marquardt, A**, M Southworth, A Scheld, A Button, and R Mann. (2023, November). Oyster reef recovery: Biological and economic responses to shell replenishment. Coastal and Estuarine Research Federation. Portland, OR.
- 8) \***Marquardt, A**, R Mann, and E Powell. (2022, August). Distribution and demographics of fossil oysters on the Atlantic continental shelf. American Fisheries Society. Spokane, WA.
- 7) Southworth, M, \***A Marquardt**, N Otto, M Unger, and R Mann. (2022, March). Revisiting *Rapana venosa* in Hampton Roads, Chesapeake Bay as TBT abates. Aquaculture. San Diego, CA.
- 6) \***Marquardt, A**, M Southworth, and R Mann. (2021, March). Post settlement survival in eastern oysters (*Crassostrea virginica*) to inform management and restoration in the Chesapeake Bay. National Shellfisheries Association. Virtual.
- 5) \*^Maietta, E, ^N Clark, **A Marquardt**, and B Ruttenberg. (2021, March). A comparison of aging methodologies for the Pismo clam (*Tivela stultorum*). National Shellfisheries Association. Virtual.
- 4) \*^Clark, N, **A Marquardt**, ^E Maietta, and B Ruttenberg. (2019, October). Age and growth determination of the Pismo clam (*Tivela stultorum*) in California. Western Society of Naturalists. Ensenada, MX.
- 3) \*^Park, S, **A Marquardt**, and B Ruttenberg. (2018, November). Reproductive cycle of the Pismo clam, *Tivela stultorum*, on Pismo Beach, California. Western Society of Naturalists. Tacoma, WA.
- 2) \***Marquardt, A**, M Hunter, S Rumrill, K Corbett, and C Schmitt (2018). Marine Biotoxins: Domoic Acid Monitoring on the Oregon Coast. National Shellfisheries Association. Seattle, WA.
- 1) **Marquardt, A**, \*M Hunter, S Rumrill, K Corbett, and C Schmitt (2017). Marine Biotoxins: Domoic Acid Monitoring on the Oregon Coast. Annual Pacific Estuarine Research Society. Coos Bay, OR.

#### **PUBLIC PRESENTATIONS**

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- 6) \***Marquardt, A**, M Southworth, A Scheld, A Button, and R Mann. (2023, April). The Virginia oyster fishery: a management decision tool. Virginia Marine Resources Commission Shellfish Management and Advisory Committee. Gloucester, VA.
- 5) \***Marquardt, A** (2022, April). 10,000 years under the sea: fossil oysters and rising sea level. Scientist Walks Into A Bar, Gloucester Brewing Company. Gloucester, VA.
- 4) \***Marquardt, A** (2020, January). TOGA Endowment Recipient Presentation. Tidewater Oyster Gardeners Association annual meeting. Virtual.
- 3) \***Marquardt, A** and B Ruttenberg. (2019, May). Pismo clams (*Tivela stultorum*) in California. Morro Bay Science Explorations: Native Shellfish and Aquaculture. San Luis Obispo, CA.
- 2) \*Ruttenberg B and **A Marquardt**. (2019, May). The Rise and fall (and rise?) of the Pismo Clam. Concert for the Clams. San Luis Obispo, CA.

- 1) \***Marquardt, A**, B Ruttenberg, L Needles, G Waltz, and D Wendt. (2018, June). Rise and Fall (and Rise?) of the Pismo clam. Pismo Beach City Council Meeting, Pismo Beach, CA.

### **WORKSHOPS, TRAININGS, CERTIFICATIONS**

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- 2022 Team Science Training; Virginia Sea Grant  
2022 Intro to GIS and Spatial Analysis; Virginia Institute of Marine Science  
2022 Integrating DEI in the classroom; Virginia Institute of Marine Science  
2021 ComSciCon (science communication workshop); University of Virginia  
2021 Science Policy Bootcamp; University of Virginia  
2019 PADI Advanced Open Water Diver  
2018 Assessing the Effectiveness of Your Teaching and Maximizing Student Success; Cal Poly  
2017 Teaching Assistant Workshop on Creating an Active and Inclusive Classroom; Cal Poly  
2017 Taxonomic Identification of Harmful Algae in U.S. Waters Course; NCCOS & Bigelow Lab  
2016 EPA Region 10 Harmful Algae Identification Training Webinar  
2016 Survival Equipment, Procedures and Onboard Drills (ALMSEA-490)

### **MEDIA**

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- 11/30/21 Los Angeles Times: City was once the clam capital of the world. Then they vanished. Newspaper and online. (<https://www.latimes.com/projects/pismo-clams/>)  
06/09/19 KVEC: Pismo Beach Today Show. Radio Show.  
06/09/18 KSBY News: A new study aims to learn more about Pismo Beach clams. TV and Web.  
05/05/18 The Tribune: Pismo's legendary clams are back - but don't plan a bake just yet. Newspaper and online.

### **TEACHING EXPERIENCE**

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**Workshop Participant**, Virginia Scientists & Educators Alliance, Gloucester Point, VA

Developing a K-12 lesson plan based on current research

*In development 2023-2024*

**Graduate Teaching Fellow**, College of William and Mary, Williamsburg, VA

Instructor of record

Professional Development for Marine Scientists, Undergrad 1 credit seminar, 1 section; Sp24

**Laboratory Instructor**, California Polytechnic State University, San Luis Obispo, CA

Introduction to Organismal Form & Function, Undergrad lab course, 7 sections; 2017-2020

Introduction to Ecology & Evolution, Undergrad lab course, 2 sections; Fall 2018

Diversity & History of Life, Undergrad lab course, 2 sections; Fall 2017

**Guest Instructor**, Santa Barbara City College

Invertebrate field sampling trip at Morro Bay, CA

### **PROFESSIONAL SERVICE AND ACTIVITIES**

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- 2023-Pres Member: VIMS Dive-In: Policy Review Subcommittee  
2022-Pres Member: Professional Development Committee; Virginia Institute of Marine Science  
2021-2023 Student Rep: VIMS Academic Council (elected position)  
2022 Member: ICES (International Council for the Exploration of the Sea) Student Review Group for Data Limited Stocks, Elasmobranch Fishes Advice Drafting Group  
2021-2022 Student Rep: Search Committee VIMS Executive Director Advancement/Foundation  
2020-2022 Co-Chair: National Shellfisheries Association  
2019 Graduate Student Rep: Distinguished Scholarship Award Committee; Cal Poly

### **MENTORSHIP**

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- 2022-Pres Mentor: William and Mary Women's Mentoring (WM<sup>2</sup>)

2021-Pres Mentor: Molluscan Ecology Lab: Mentored 4 undergraduate researchers  
2021-Pres Mentor: VIMS Graduate Student Association: Peer mentoring for first year students  
2022 Panelist: Graduate School in Marine Science: VIMS Society for Women in Marine Science  
2019 Presenter: Cal Poly Wildlife Club: Resume Workshop for Fisheries and Wildlife Science  
2018-2020 Frost Research Mentor: Supervised 4 undergraduate research projects. Panelist for Graduate School Panel Q & A  
2017-2020 Mentor: Pismo Clam Project, Cal Poly: Mentored 17 undergraduate students

### **SCIENCE COMMUNICATION AND OUTREACH**

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2021-Pres Visiting Scientist, Skype a Scientist Program: 8 classroom matches  
2023 Gloucester Parks, Recreation, Tourism Touch-a-Truck: familiarize kids with agency vehicles  
2023 VIMS Marine Science Day: Co-developed educational activities focused on molluscs  
2020 Project Engage Richmond, VA: Meet a Marine Scientist: 1 session  
2019 Pismo Beach Clam Festival: Led outreach table on current research and bivalve biology  
2018 DIG Event Leader: Led two outreach days for high school students focused on bivalves  
2015 Bat Blitz Organizer: Coordinated Biological Blitz for bats with local community college

### **PROFESSIONAL MEMBERSHIPS**

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2017-Pres National Shellfisheries Association (Student Co-Chair 2020-2022)  
2021-Pres American Fisheries Association  
2017-2021 Western Society of Naturalists  
2018-2019 Graduate Women In Science  
2017-2018 American Association for the Advancement of Science