JORDANN K. YOUNG

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EDUCATIONAL BACKGROUND

2019-Present	**Ph.D. Student**, University of California Santa Cruz Advisor: Dr. Daniel Costa Dissertation Topic: Reproductive bioenergetics of bottlenose dolphins (*Tursiops truncatus*) Anticipated Graduation Date: May 2025
2015	**M.S. in Marine Science**, University of Texas at Austin Advisors: Dr. Kenneth Dunton and Dr. Bryan Black Thesis: Abundance, biomass and caloric content of Chukchi Sea bivalves and influence on Pacific walrus (*Odobenus rosmarus divergens*) abundance and distribution in the northeastern Chukchi Sea
2009	**B.A. in Biology**, University of Texas at Austin

AWARDS, GRANTS AND HONORS

2021	Society for Marine Mammalogy Student Travel Grant ($350)
2021	American Association of University Women, Santa Cruz Chapter ($1500)
2020	Marilyn C. Davis Re-Entry Scholarship, University of California Santa Cruz ($690)
2020	Regent's Fellowship, University of California Santa Cruz
2020	Gibson AAUS Scholarship, University of California Santa Cruz
2020	Marilyn C. Davis Memorial Scholarship, University of California Santa Cruz ($750)
2019	Eugene V. Cota Robles Fellowship ($84,000)
2019	National Science Foundation Graduate Research Fellowship, Honorable Mention
2012	Dean's Excellence Award, University of Texas at Austin
2009	Co-op GOES Scholarship, University of Texas at Austin
2009	Undergraduate Research Fellowship, University of Texas at Austin
2007-2009	University Honors (Spring 2007, Fall 2008, Spring 2009)

PUBLICATIONS

2017	**Young, J.K.**, Black, B.A., Clarke, J.T., Schonberg, S.V, and K.H. Dunton. 2017. Abundance, biomass and caloric content of Chukchi Sea bivalves and association with Pacific walrus (Odobenus rosmarus divergens) relative density and distribution in the northeastern Chukchi Sea. Deep Sea Research II: Topical Studies in Oceanography 144: 125-141, https://doi.org/10.1016/j.dsr2.2017.04.017.

ORAL PRESENTATIONS

2015	**Young, J.K.** Abundance, biomass and caloric content of Chukchi Sea bivalves and influence of bivalve caloric distribution on Pacific walrus (*Odobenus rosmarus*

divergens) abundance and distribution in the northeastern Chukchi Sea. 2015 Hanna Shoal Synthesis Meeting, Hyatt Regency Lost Pines, Bastrop, TX.

2015 **Young, J.K.** Abundance, biomass and caloric content of Chukchi Sea bivalves and influence of bivalve caloric distribution on Pacific walrus (Odobenus rosmarus divergens) abundance and distribution in the northeastern Chukchi Sea. Thesis Defense Seminar, University of Texas Marine Science Institute, Port Aransas, TX.

2015 **Young, J.K.**, B.A. Black and K.H. Dunton. Caloric content of Chukchi bivalves and impacts of shifting community composition on caloric resources for bivalve consumers. Benthic Ecology Meeting, Quebec City, Quebec, Canada.

2015 **Young, J.K.**, B.A. Black and K.H. Dunton. Caloric content of Chukchi bivalves and impacts of shifting community composition on caloric resources for bivalve consumers. Departmental Seminar, University of Texas Marine Science Institute, Port Aransas, TX.

RESEARCH AND PROFESSIONAL EXPERIENCE

2019-Present
Graduate Research Assistant, University of California at Santa Cruz
Principal Investigator: Dr. Daniel Costa
Research Topic: Reproductive bioenergetics of bottlenose dolphins (*Tursiops truncatus*) in Sarasota Bay, Florida

2018 - 2019
Research Associate / Lab Manager, University of Texas at Austin
Principal Investigator: Dr. Mikhail Matz
Research Topic: Genomic adaptation to environmental differences and climate change in reef-building corals
Duties: Maintain and repair laboratory equipment, conduct inventories of consumables, and reorder supplies. Assist in conducting research experiments. Prepare libraries for next-generation sequencing. Train and supervise undergraduate assistants tasked with nucleic acids isolation. Assist with field work.
Research and Analytical Skills: Nucleic acids isolation, library preparation, next-generation sequencing

2017 - 2018
Research Assistant, University of Texas at Austin
Principal Investigator: Dr. Daniel Bolnick, Dr. Yoel Stuart
Research Topic: Non-parallel evolution and sexual dimorphism in threespine stickleback (*Gasterosteus aculeatus*)
Duties: Obtain phenotypic and morphometric data from >2000 experimental F2 hybrid and wild fish; assist with DNA extraction; conduct stable isotope analysis to examine stickleback trophic position and foraging ecology; analyze patterns of sexual dimorphism in allopatric populations of lake and stream stickleback
Research and Analytical Skills: Geometric morphometrics, DNA extraction, stable isotope analysis

2016 - 2017
Lab Manager, Biology Instructional Office, University of Texas at Austin
Principal Investigator: Dr. Martha Maas
Duties: Provide instructional and technical support to faculty, graduate teaching assistants and undergraduate employees of the Introductory Laboratory Experiments in Biology course. Maintain and repair laboratory equipment, conduct inventories of consumables, and reorder supplies. Troubleshoot existing laboratory protocols, develop and test new protocols and write procedural guidelines for new exercises. Hire, train and manage

student lab assistants and support personnel. Interface with Environmental Health and Safety, Custodial Services, Biology Instructional Office, vendors and contractors.
Research and Analytical Skills: DNA extraction, PCR, gel electrophoresis, bacterial transformation, compound microscopy, fluorescence microscopy, spectrophotometry

2015 - 2016 Laboratory Technician, University of Texas at Austin
Principal Investigator: Ellie Shuo Jin
Research Topic: Effect of hormonal administration on social behavior and implications for clinical outcomes, with a focus on testosterone, cortisol and DHEA
Research and Analytical Skills: Hormone extraction from saliva samples, enzyme-linked immunoassays (ELISA) of testosterone, cortisol and DHEA

2015 Laboratory Technician, University of Texas at Austin Marine Science Institute
Principle Investigator: Dr. Bryan Black
Research Topic: Sclerochronology and climate reconstruction utilizing annual growth increments from bivalve shells (*Mactromeris polynyma*, *Rangia cuneata*) in the Pacific Northwest and the Texas coast
Research and Analytical Skills: Sclerochronology techniques

2012-2015 Graduate Research Assistant, University of Texas Marine Science Institute
Principal Investigators: Dr. Kenneth Dunton and Dr. Bryan Black
Research Topic: Spatial analysis of bivalve caloric resource distribution in the Chukchi Sea and influence on Pacific walrus (*Odobenus rosmarus divergens*) relative density.
Research and Analytical Skills: Bomb calorimetry, stable isotope analysis, spatial analysis (ArcGIS), statistical analysis and programming in R

UNIVERSITY TEACHING EXPERIENCE

2021 Ecology and Evolution, Graduate Teaching Assistant, University of California Santa Cruz
2014 Marine Environmental Science, Graduate Teaching Assistant, University of Texas
2013 Marine Botany, Graduate Teaching Assistant, University of Texas
2013 Introduction to Oceanography, Graduate Teaching Assistant, University of Texas
2012 Introductory Biology, Graduate Teaching Assistant, University of Texas

PROFESSIONAL SERVICE AND PUBLIC OUTREACH

2016 Visiting Scientist, Becker Elementary School, Austin, TX
2015 Meeting Coordinator/Host, 2015 Hanna Shoal Synthesis Meeting, Austin, TX
2015 Volunteer Photographer, Texas Bays and Estuaries Meeting, Port Aransas, TX
2015 Assistant Instructor, Women in Marine Science Day, Port Aransas, TX
2014 Science Fair Judge and Visiting Scientist, Olsen Elementary School, Port Aransas, TX
2014 Assistant Instructor, UTMSI Summer Science Program, Port Aransas, TX
2014 Visiting Scientist, Girl Scouts of the United States of America, Port Aransas, TX
2013 Assistant Instructor, UTMSI Summer Science Program, Port Aransas, TX
2013 Guest Lecturer, University of Texas Marine Science Club, Austin, Texas
2013 Visiting Scientist, Girl Scouts of the United States of America, Cedar Park, TX

PROFESSIONAL MEMBERSHIPS AND SOCIETIES

2021 American Cetacean Society, Monterey Bay Chapter
2021 Society for Marine Mammalogy

SEA-GOING/FIELD RESEARCH EXPERIENCE

2015 Rangia Clam Investigation in the Upper San Antonio Bay System: A Growth-Increment Approach
Description: Field work supporting the investigation into the decline of *Rangia* clams in estuarine ecosystems in Texas.
Duties: Oversaw the collection and transport of bivalve specimens from estuaries and rivers in South Texas, performed tissue dissections and shell preparations. Maintained detailed laboratory records, conducted inventories of laboratory supplies, and ordered new supplies when needed. Supervised undergraduate research assistants in the field.

2012- 2013 Chukchi Offshore Monitoring in Drilling Area (COMIDA): Hanna Shoal Ecosystem Study
Description: Research cruises in the Hanna Shoal region of the northeastern Chukchi Sea aboard the USCGC *Healy* (July-August 2012, 2013).
Duties: Sieved and sorted double Van Veen grabs for benthic infauna. Processed and prepared zooplankton net tows and tissue samples for stable isotope analysis. Maintained shipboard collections of live bivalves for feeding experiments. Participated in small boat operations to collect sea ice algae.

2012-2015 Texas Statewide Seagrass Monitoring Program.
Description: Field work studying the extent of seagrass coverage in Texas coastal waters.
Duties: Collected sediment and water samples, took YSI DataSONDE readings, conducted percent coverage estimates, collected seagrass tissue samples, and prepared samples for C:N and isotopic analysis. Required occasional trailering and driving of small boats.

2009 College of Natural Science Maymester Abroad: Coral Reef Ecology
Description: Four-week field course on coral reef ecology taught at the Lizard Island Research Station in Queensland, Australia.
Duties: Conducted transect-based estimates of coral coverage, abundance and distribution of *Tridacna* clams and *Chaetodontidae* butterfly fishes. Observed foraging behavior of *Labridae* wrasses (6-8 hours per day).

PROFESSIONAL DEVELOPMENT/WORKSHOPS

2014 University of Texas Summer Statistics Institute workshops: “Making Sense of Multivariate Data: Principle Component Analysis, Factor Analysis & Clustering Technique” and “Geospatial Data Analysis in R”

CERTIFICATIONS

2014 American Heart Association CPR and First Aid Certification
2012 PADI Open Water Diver Certification
2012 Texas Parks and Wildlife Boater Education Certification