**Roxanne Beinart**

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University of Rhode Island rbeinart@uri.edu

215 South Ferry Rd. www.beinartlab.com

Narragansett, RI 02282

**Education**

2014 Harvard University, PhD in Biology

2006 Cornell University, BS in Biology (concentration in microbiology)

**Professional Experience**

2017 - present *Assistant Professor,* U. Rhode Island, Graduate School of Oceanography

2016 – 2017 *Postdoctoral Investigator,* Woods Hole Oceanographic Institution, NSF OCE-1536331

2014 – 2016 *NSF Ocean Sciences Postdoctoral Fellow,* Woods Hole Oceanographic Institution

2013 – 2014 *Coastal Ocean Institute Postdoctoral Scholar,* Woods Hole Oceanographic Institution

2008 – 2013 *NSF Graduate Research Fellow*, Harvard University

2006 – 2008 *Assistant Research Specialist*, U. California Santa Cruz

**Fellowships and Awards**

2019 – 2022 Simons Foundation Early Career Investigator in Marine Microbial Ecology & Evolution

2014 – 2016 NSF Ocean Sciences Postdoctoral Research Fellowship

2013 – 2014 WHOI Coastal Ocean Institute Postdoctoral Scholar Award

2013 Best Student Oral Presentation, Symposium on Chemosynthesis-Based Ecosystems

2009 – 2013 NSF Graduate Research Fellowship

**Grants & Funding**

[14] Rhode Island Science and Technology Advisory Council, $80,000 1/1/21-12/31/21

“Towards measuring the pulse of Narragansett Bay: Applying high resolution oxygen sensors to quantify ecosystem primary production and respiration”

PI: **Roxanne Beinart** (URI), CoPIs: Pierre Marrec (URI), Susanne Menden-Deuer (URI), James Lemire (Roger Williams University), Jason Grear (US EPA)

[13] Sanger Institute, Aquatic Symbiosis Genomics Project, costs for 50+ sequenced genomes 1/1/2021-present

“Symbiosis as a driver for molluscan diversity”

Leads: **Roxanne Beinart** (URI), Julia Sigwart (Senckenberg Institute), Jillian Petersen (U. Vienna); CoPIs: Chong Chen (JAMSTEC), Didier Jollivet (Station Biologique de Roscoff), Barbara Campbell (Clemson U.), Bernard Picton (Queen’s U. Belfast), Arnaud Tanguy (Station Biologique de Roscoff), Laetitia Wilkins (MPI Marine Microbiology), Leena Wong (U.Putra Malyasia)

[12] Sanger Institute, Aquatic Symbiosis Genomics Project, costs for 50+ sequenced genomes 1/1/2021-present

“Ciliates as models for symbiosis”

Lead: Patrick Keeling (UBC); CoPIs: **Roxanne Beinart** (URI), Ivan Cepicka (Charles U.), Monika Bright (U.Vienna), Per Juel Hansen (U.Copenhagen), Wallace Marshall (UCSF), Thomas Richards (U.Oxford), Bettina Sontag (LFUI), Tingting Xiang (UNC-Charlotte)

[11] Moore Foundation, Aquatic Symbioses Initiative, $49,927 5/1/2020-10/31/2022

“Genetic Tool Development in the *Heterometopus*-*Methanobacterium* Symbiosis System”

PI: Maria Pachiadaki (WHOI), coPIs: **Roxanne Beinart** (URI), Johana Rotterová (URI), Virginia Edgcomb (WHOI)

[10] University of Rhode Island, Proposal Development Grant, $24,327 7/1/2020-6/31/2021

“The role of geology and geochemistry in species distribution and biodiversity at hydrothermal vents in the North Fiji Basin”

PI: **Roxanne Beinart** (URI)

[9] Schmidt Ocean Institute, 30 days ship/ROV time 2021-2022

“Exploration and characterization of hydrothermal vent communities in the North Fiji back-arc basin”

PI: **Roxanne Beinart** (URI), coPIs: Corinna Breusing (URI), Vicki Ferrini (Lamont-Doherty), Amy Gartman (USGS), Jill McDermott (Lehigh U.), Joseph Resing (NOAA-PMEL)

[8] Schmidt Ocean Institute, 21 days ship/ROV time 2021-2022

“Subsurface life – from viruses to animals – at deep-sea hydrothermal vents”

PI: Monika Bright (U. Vienna), coPIs: **Roxanne Beinart** (URI), Peter Girguis (Harvard U.), Sabine Gollner (Royal Netherlands Institute for Sea Research), Alexis Pasulka (California PolyTech), Stefan Sievert (WHOI), Christian Winter (U. Vienna)

[7] Rhode Island SeaGrant, $322,039 02/01/2020-01/31/2022

“Shellfish Response to a Warming Environment, a Mesocosm Experiment”

PI: Candace Oviatt (URI), coPIs: **Roxanne Beinart** (URI), Connor McManus (RIDEM)

[6] Simons Foundation, $620,000

Early Career Investigator in Marine Microbial Ecology and Evolution 4/1/2019-3/31/2022

“Patterns of specificity and maintenance in microbe-microbe partnerships”

PI: **Roxanne Beinart** (URI)

[5] Rhode Island Endeavor Program, 3000 and 6 days shiptime 2019

“Assessing the role of phosphorous in the chemosynthetic productivity of cold seep mussels”

PI: **Roxanne Beinart** (URI) CoPIs: Brennan Phillips (URI), Andrew Davies (URI)

[4] NSF Biological Oceanography, OCE-1736932, $585,618 9/1/2018-8/31/2021

“Collaborative Research: The impact of symbiont-larval interactions on species distribution across southwestern Pacific hydrothermal vents” PI: **Roxanne Beinart** (URI) Co-PIs: Shawn Arellano (Western Washington U.), Craig Young (U. of Oregon)

[3] Rhode Island Research Alliance 7/1/2017-6/30/2018

“Evaluation of a mobile autonomous surface vehicle and sampling system for water quality monitoring and coastal estuarine research” Lead PI: Christopher Roman (URI), Co-PIs: **Roxanne Beinart** (URI), Brian Zalewsky (RI-DEM), Richard Blodgett (Providence Water), Matt Ladewig (ESS Group, Inc.)

[2] NSF Biological Oceanography, OCE-1536331, $360,832 1/1/2016 – 12/31/2018

"Collaborative Research: Ecosystem dynamics of Western Pacific hydrothermal vent communities associated with polymetallic sulfide deposits” PI: Charles Fisher (Penn State), Co-PIs: **Roxanne Beinart** (WHOI), Vicki Ferrini (Lamont-Doherty), Peter Girguis (Harvard), Jeffrey Seewald (WHOI)

[1] Schmidt Ocean Institute, 30 days ship/ROV time 4/7/2016 – 5/5/2016

“Ecosystem dynamics of Western Pacific hydrothermal vent communities associated with polymetallic sulfide deposits”. PI: Charles Fisher (Penn State), Co-PIs: **Roxanne Beinart** (WHOI), Vicki Ferrini (Lamont-Doherty), Peter Girguis (Harvard)

**Publications**

\*\* Indicates supervised student or postdoc

**In prep** M. Hauer\*\*, C. Breusing\*\*, E. Trembath-Reichert, J.A. Huber, **R.A. Beinart** (in prep) Population genomics of a free-living chemosynthetic symbiont. ISME J.

**In review** C. Breusing\*\* J. Castel, Y. Yang, T. Broquet, J. Sun, D. Jollivet, P.-Y. Qian and **R.A. Beinart** (in review) Global 16S rRNA diversity of provannid snail endosymbionts from Indo-Pacific deep-sea hydrothermal vents. Environmental Microbiology Reports.

C. Breusing\*\*, M. Genetti, S.L. Russell, R.B. Corbett-Detig, **R.A. Beinart** (in review) Host-symbiont population genomics provide insights into partner fidelity, transmission mode and habitat adaptation in deep-sea hydrothermal vent snails. PNAS.

Preprint: https://www.biorxiv.org/content/10.1101/2021.07.13.452231v1

C. Breusing\*\*, S.B. Johnson, S. Mitarai, **R.A. Beinart**, V. Tunnicliffe (in revision)Differential patterns of connectivity in Western Pacific hydrothermal vent metapopulations: A comparison of biophysical and genetic models. Evolutionary Applications

M. Perez, C. Breusing\*\*, B. Angers, **R.A. Beinart**, Y-J. Won, C.R. Young (in review) Extreme genomic makeover: evolutionary history and niche adaptation of maternally-transmitted clam symbionts. Proceedings of the Royal Society B-Biological Sciences

**2021** V. McKenna, J.M. Archibald, **R. Beinart**, M.N. Dawson, U. Hentschel, P.J. Keeling, J.V. Lopez et al. (2021) The Aquatic Symbiosis Genomics Project: probing the evolution of symbiosis across the tree of life. Wellcome Open Research

J.M. Leonard, J. Mitchell, **R.A. Beinart**, J.A. Delaney, J.G. Sanders, G. Ellis, E.A. Goddard, P.R. Girguis, K.M. Scott (2021) Co-occurring activity of two autotrophic pathways in symbionts of hydrothermal vent tubeworm *Riftia pachyptila.* Applied and Environmental Microbiology, AEM-00794. doi: 10.1128/AEM.00794-21

**2020**  S.L. Russell, E. Pepper, J. Svedberg, A. Byrne, J.R. Castillo, C. Vollmers, **R.A. Beinart**, and R. Corbett-Detig (2020) Horizontal transmission and recombination maintain forever young bacterial symbiont genomes. Plos Genetics, 16(8): e1008935. doi: 10.1371/journal.pgen.1008935

C. Breusing\*\*, S.B. Johnson, V. Tunnicliffe, D.A. Clague, R.C. Vrijenhoek and **R.A. Beinart** (2020) Allopatric and sympatric drivers of speciation in *Alviniconcha* hydrothermal vent snails. Molecular Biology and Evolution, doi: msaa177, 10.1093/molbev/msaa177

C. Breusing\*\*, J. Mitchell, J. Delaney, S.P. Sylva, J.S. Seewald, P.R. Girguis, and **R.A. Beinart** (2020)Physiological dynamics of chemosynthetic symbionts in hydrothermal vent snails. International Society of Microbial Ecology Journal 14, 2568-2579, doi: 0.1038/s41396-020-0707-2

J. Rotterová, E. Salomaki, T. Pánek, W. Bourland, D. Žihala, P. Táborský, V.P. Edgcomb, **R.A. Beinart**, M. Kolísko, I. Čepička (2020) Genomics of new ciliate lineages provides insight into the evolution of obligate anaerobiosis. Current Biology 30: 2037-2050.e6, doi: 10.1016/j.cub.2020.03.064

**2019 R.A. Beinart,** C. Luo, K. Konstantinidis, F.J. Stewart, P.R. Girguis(2019)The bacterial symbionts of closely related hydrothermal vent snails with distinct geochemical habitats show broad similarity in chemoautotrophic gene content. Frontiers in Microbiology: Microbial Symbioses, doi: 10.3389/fmicb.2019.01818

**R.A. Beinart** (2019) The significance of microbial symbionts in ecosystem processes. mSystems 4 (3) e00127-19 doi: 10.1128/mSystems.00127-19

**2018 R.A. Beinart,** J. Rotterová, I. Cepicka, R.J. Gast, V.P. Edgcomb (2018) The genome of an endosymbiotic methanogen is very similar to those of its free-living relatives. Environmental Microbiology 20: 2538-2551 doi: 10.1111/1462-2920.14279 *\*\*selected for journal cover\*\**

**R.A. Beinart**, D.J. Beaudoin, J.M. Bernhard, V.P. Edgcomb (2018) Insights into the metabolic

functioning of a multipartner ciliate symbiosis from oxygen-depleted sediments. Molecular Ecology 00:1–14. doi: 10.1111/mec.14465

S.A. Soule, J. Seewald, S. Wankel, A. Michel, **R. Beinart**, E. Escobar Briones, E. Morales Domínguez, P. Girguis, D. Coleman, N.A. Raineault, J. Wagner, A. Foulk, A. Bagla, and J. Karson (2018) Exploration of the Northern Guaymas Basin. N.A. Raineault, J. Flanders, and A. Bowman, eds. New frontiers in ocean exploration: The E/V Nautilus, NOAA Ship Okeanos Explorer, and R/V Falkor 2017 field season. Oceanography 31(1), supplement: 39-41 doi: 10.5670/​oceanog.2018.supplement.01.

**2016** S.L. Seston**\***, **R.A.** **Beinart\***, N. Sarode, A.C. Shockey, P. Ranjan,S. Ganesh, P.R. Girguis, F.J. Stewart. (2016) Metatranscriptional response of chemoautotrophic *Ifremeria nautilei* endosymbionts to differing sulfur regimes. Frontiers in Microbiology: Microbial Symbioses 7: 1074. doi:  10.3389/fmicb.2016.01074

\*Contributed equally

**2015 R.A. Beinart**, A. Gartman, J.G. Sanders, G.W. Luther III, P.R. Girguis. (2015) The uptake and excretion of partially oxidized sulfur expands the repertoire of energy resources metabolized by hydrothermal vent symbioses. Proceedings of the Royal Society B-Biological Sciences, 282: 20142811–20142811 doi: 10.1098/rspb.2014.2811

**2014 R.A. Beinart**, S.V. Nyholm, N. Dubilier, P.R. Girguis (2014) Intracellular Oceanospirillales inhabit the gills of the hydrothermal vent snail *Alviniconcha* with chemosynthetic, γ-proteobacterial symbionts Environmental Microbiology Reports 6: 656-664 doi: 10.1111/1758-2229.12183

P.H. Moisander, T.Serros, R.Paerl, **R.A. Beinart**, J.P. Zehr (2014) Gammaproteobacterial diazotrophs and *nifH* gene expression in surface waters of the South Pacific Ocean. International Society of Microbial Ecology Journal 8: 1962-1973 doi: 10.1038/ismej.2014.49

**2013** J.G. Sanders\*, **R.A. Beinart\***, F.J. Stewart, E.F. Delong, P.R. Girguis (2013) Metatranscriptomics reveal differences in *in* *situ* energy and nitrogen metabolism among hydrothermal vent snail symbionts. International Society of Microbial Ecology Journal 7: 1556-1567 doi: 10.1038/ismej.2013.45

\*Contributed equally

**2012 R.A. Beinart**, B. Faure, S.P. Sylva, J.G. Sanders, R.W. Lee, E.L. Becker, A. Gartman, G.W. Luther III, C.R. Fisher, J.S. Seewald and P.R. Girguis (2012) Evidence for the role of endosymbionts in regional-scale habitat partitioning by hydrothermal vent symbioses. Proceedings of the National Academy of Sciences 109: 19053-19054 doi: 10.1073/pnas.1202690109

R. Paerl, K. Turk, **R.A. Beinart**, J.P. Zehr (2012) Seasonal change in the abundance of *Synechococcus* and multiple distinct phylotypes in Monterey Bay determined by rbcL and narB quantitative PCR. Environmental Microbiology 14: 580–593 doi: 10.1111/j.1462-2920.2011.02594.x

Tivey, M.K., E. Becker, **R. Beinart**, C.R. Fisher, P.R. Girguis, C.H. Langmuir, P.J. Michael, and A.-L. Reysenbach (2012) Links from mantle to microbe at the Lau Integrated Study Site: Insights from a back-arc spreading center. Oceanography 25(1): 62–77 doi: [10.5670/oceanog.2012.04](http://dx.doi.org/10.5670/oceanog.2012.04)

**2011** A. Gartman, M. Yucel, A.S. Madison, D.W. Chu, S. Ma, C. Janzen, E.L. Becker, **R.A. Beinart**, P.R. Girguis, G.W. Luther (2011) Sulfide oxidation across diffuse flow zones of hydrothermal vents. Aquatic Geochemistry 17(4) 583-601 doi: 10.1007/s10498-011-9136-1

G.W. Luther, A.J. Findlay, D.J. MacDonald, S.M. Owings, T.E. Hanson, **R.A. Beinart**, P.R. Girguis (2011) Thermodynamics and Kinetics of sulfide oxidation by oxygen: a look at inorganically controlled reactions and biologically mediated processes in the environment. Frontiers in Microbial Physiology and Metabolism 2 doi: 10.3389/fmicb.2011.00062

**2010** P.H. Moisander, **R.A. Beinart**, I. Hewson, A.E. White, K.S. Johnson, C.A. Carlson, J.P. Montoya, J.P. Zehr (2010) Unicellular cyanobacterial distributions broaden the oceanic N2 fixation domain. Science 327(5972): 1512-1514 doi: 10.1126/science.1185468

**2009** I. Hewson, R. S. Poretsky, **R.A. Beinart**, A.E. White, T. Shi, S.R. Bench, P.H. Moisander, R.W. Paerl, H.J. Tripp, J.P. Montoya, M.A. Moran, J.P. Zehr (2009) *In situ* transcriptomic analysis of the globally important keystone N2-fixing taxon *Crocosphaera watsonii*. International Society of Microbial Ecology Journal 3(5): 618-631 doi: 10.1038/ismej.2009.8

**2008** P.H. Moisander**, R.A. Beinart**, M. Voss, J.P. Zehr (2008) Diversity and abundance of diazotrophic microorganisms in the South China Sea during intermonsoon. International Society of Microbial Ecology Journal 2(9): 954-967 doi: 10.1038/ismej.2008.51

**Presentations**

***Invited***

June 2021 **R.A. Beinart,** The impact of microbial symbionts on the ecology and evolution of hydrothermal vent snails, *Plenary speaker*, Annual Meeting of the American Malacological Society, Virtual

April 2021 **R.A. Beinart**, Using population structure and host-symbiont specificity to inform knowledge of transmission dynamics in two obligate marine microbial symbioses**,** *Invited Distinguished Lecture,* Department of Bacteriology, U.Wisconsin-Madison, Virtual

Feb. 2021 **R.A. Beinart**, Using population structure and host-symbiont specificity to inform knowledge of transmission dynamics in two obligate marine microbial symbioses**,** *Invited Seminar*, Department of Biology, Portland State University, Virtual

Jan. 2021 **R.A. Beinart**, Using population structure and host-symbiont specificity to inform knowledge of transmission dynamics in two obligate marine microbial symbioses**,** *Invited Keynote*, Pioneer Valley Microbiology Symposium, Virtual

Nov. 2019 **R.A. Beinart,** *Invited Seminar* (declined due to parental leave), Microbiome Innovation Summit, Jackson Laboratory

April 2019 **R.A. Beinart**. Linking microbial symbiont activity to ecosystem processes: connecting microbial symbionts to animal ecology and biogeochemistry at hydrothermal vents, *Invited Seminar*, Oregon Institute of Marine Biology, University of Oregon

July 2018 **R.A. Beinart**, J. Rotterova, I. Cepicka, R.G. Gast, V.P. Edgcomb. Metabolic functioning of a ciliate-methanogen symbiosis from anoxic habitats. *Invited Symposium Presentation*, Annual Meeting of the International Society of Protistologists

June 2018 **R.A. Beinart** Linking the physiology of aquatic symbionts to ecosystem processes. *Invited Presentation*, ASLO Summer Meeting

Sept. 2017 **R.A. Beinart.** Linking the activity of host-associated microbes to ecosystem processes*. Invited Seminar,* Biological and Environmental Sciences Colloquium, College of the Environment and Life Sciences, U. Rhode Island

Nov. 2014 **R.A. Beinart.** Unsilent partners: Constraining the contribution of methanogen-protist symbioses to total methane production in anoxic marine habitats. *Invited Seminar*, WHOI Geology and Geophysics Department

Oct. 2014 **R.A. Beinart**. Linking symbiont physiology to the ecology of marine symbioses. *Invited Seminar*, WHOI Biology Department

Oct. 2013 **R.A. Beinart**. Linking bacterial symbiont physiology to the ecology of hydrothermal vent symbioses. *Invited seminar,* Bridgewater State University

***Contributed***

\* indicates advised student or postdoc

April 2021 **R.A. Beinart**, Using population structure and host-symbiont specificity to inform knowledge of transmission dynamics in two obligate marine microbial symbioses**,** *Seminar,* Symbiosis Seminar Series

Dec. 2020 J. Rotterova\*, D. Méndez-Sánchez, A. Schrecengost\*, V.P. Edgcomb, **R.A. Beinart**, I. Cepicka. Interactions between anaerobic ciliates and their prokaryotic symbionts. *Virtual poster*, ASCB Cell Bio.

Jan. 2020 Hauer M.\*, Breusing C., **Beinart R.A.** Assembling the genome of a chemosynthetic symbiont from deep-sea hydrothermal vent snail *Alviniconcha hessleri. Poster*, Rhode Island Microbiome Symposium

Jan. 2020 Breusing C.\*, Mitchell J., Delaney J., Sylva S.P., Seewald J.S., Girguis P.R., **Beinart R.A.** High-pressure shipboard experiments provide insights into the physiological dynamics of chemosynthetic vent snail symbionts. Presentation, Rhode Island Microbiome Symposium

June 2019 **R.A. Beinart.** Linking the physiology of aquatic symbionts to ecosystem processes. *Poster*, Animal-Microbe Symbioses Gordon Research Conference

June 2019 C. Breusing\*, J. Mitchell, J. Delaney, P.R. Girguis, **R.A. Beinart.** Does symbiont metabolism drive niche differentiation in *Alviniconcha* hydrothermal vent snails? *Poster*, Animal-Microbe Symbioses Gordon Research Conference

July 2018 E.S. Frates\*, A. Al-Haj, R.W. Fulweiler, **R.A. Beinart.** Protistan ecology of Narragansett Bay benthic habitats. *Poster*, 11th Annual RI SURF Conference

Aug. 2017**R.A. Beinart**, J. Rotterova, S. Sylva, I. Cepicka, J. S. Seewald, R.G. Gast, V.P. Edgcomb. Metabolic functioning of a ciliate-methanogen symbiosis from anoxic habitats*. Presentation,* 6th International Symposium on Chemosynthesis-Based Ecosystems

Jan. 2016 **R.A. Beinart**,P.R. Girguis.Linking symbiont physiology to the ecology of chemoautotrophic symbioses. *Presentation*, Life on the Edge: the Biology of Organisms Inhabiting Extreme Environments Symposium, Annual Meeting of the Society for Integrative and Comparative Biology

June 2015 **R.A. Beinart,** M. Pachiadaki, J.M Bernhard, E.R. Leadbetter, V.P. Edgcomb.Insights into the metabolic functioning of a multi-partner ciliate symbiosis from oxygen-depleted sediments. *Poster*, Animal-Microbe Symbioses Gordon Research Conference

Feb. 2015 **R.A. Beinart,** M. Pachiadaki, J.M Bernhard, E.R. Leadbetter, V.P. Edgcomb.Insights into the metabolic functioning of a multi-partner ciliate symbiosis from oxygen-depleted sediments. *Presentation*, ASLO Aquatic Sciences

Aug. 2013 **R.A. Beinart,** P.R. Girguis. Linking bacterial symbiont physiology to the ecology of hydrothermal vent symbioses. *Presentation*, 5th International Symposium on Chemosynthesis-Based Ecosystems

Dec. 2012 **R.A. Beinart**, A. Gartman, J.G. Sanders, G.W. Luther, P.R. Girguis.Isotopic approaches to allying productivity and sulfur metabolism in three symbiotic hydrothermal vent molluscs. *Presentation*, American Geophysical Union Fall Meeting

Oct. 2012 **R.A. Beinart**, J.G. Sanders, F.J. Stewart, E.F. Delong, P.R. Girguis. Differences in energy and nitrogen metabolism among the symbionts of hydrothermal vent gastropods relate to geochemical niche. *Presentation*, 4th ASM Conference on Beneficial Microbes,

Aug. 2010 **R.A. Beinart,** J.G. Sanders, J.S. Seewald, P.R. Girguis. Snail endosymbiont type follows hydrothermal vent chemistry in the Eastern Lau Spreading Center. *Poster*, ISME Conference

**Teaching**

2017 - present **University of Rhode Island**

Instructor, OCG594: Microbial Interactions in the Ocean Spring 2021

Instructor, OCG420 Deep-Sea Biology Fall 2020

Instructor, OCG594: Microbial Symbioses Spring 2019

Instructor, OCG106G: You, Me, and Life in the Sea Spring, Fall 2018

2017 – present **Guest lectures**

Boston College, Deep-Sea Biology Spring 2020

URI, OCG561: Biological Oceanography Fall 2017, Fall 2018

URI, BIO360: Marine Biology Fall 2018

URI, OCG576: Marine Microbial Ecology Fall 2018

Rhode Island College, BIO321: Invertebrate Zoology Fall 2018

URI, OCG420: Deep-Sea Biology Fall 2017

2010 – 2013 **Harvard University**

TA, OEB119: Deep Sea Biology Fall 2013

TA, OEB191: Physiological and Biochemical Adaptations Spring 2010, Fall 2011

**Advising**

*Postdoctoral Researcher Advising*

2020 – present **Dr. Johana Rotterová**, Postdoctoral Researcher, University of Rhode Island, Graduate School of Oceanography

2018 – present **Dr.** **Corinna Breusing**, Postdoctoral Researcher, University of Rhode Island, Graduate School of Oceanography

*Graduate Advising*

2021 – present **Raul Gutierrez**, M.S. student, University of Rhode Island, Graduate School of Oceanography

2019 – present **Anna Schrecengost**, Ph.D. student, University of Rhode Island, Graduate School of Oceanography

2018 – present **Michelle Hauer**, Ph.D. student, University of Rhode Island, Graduate School of Oceanography

*Graduate Student Committee Membership*

2021 – present **Christopher Via**, Ph.D., University of Rhode Island, College of Pharmacy

2021 – present **Evelyn Spencer**, M.S., University of Rhode Island, Biological and Environmental Sciences

2020 – present **Emma Strand**, Ph.D., University of Rhode Island, Biological and Environmental Sciences

2020 – present **Chris Powers**, Ph.D., University of Rhode Island, Biological and Environmental Sciences

2020 – present **Kristina Terpis**, Ph.D., University of Rhode Island, Biological and Environmental Sciences

2020 – present **Ian Bishop**, Ph.D., University of Rhode Island, Graduate School of Oceanography

2020 – present **Samantha Setta**, Ph.D., University of Rhode Island, Graduate School of Oceanography

2020 – present **Erin Borbee**, Ph.D., University of Rhode Island, Biological and Environmental Sciences

2018 – present **Eric Almeida**, Ph.D., University of Rhode Island, Biological and Environmental Sciences

2018 – present **Michelle McCartha**, M.S., Western Washington University, Biology MESP

2017 – present **Zachary Pimental**, Ph.D., University of Rhode Island, Cellular and Molecular Biology

2017 – 2021 **Stephanie Anderson**, Ph.D., University of Rhode Island, Graduate School of Oceanography

2018 – 2020 **Elizabeth Hunter**, M.S., University of Rhode Island, Biological and Environmental Sciences

2018 – 2019 **Rebecca Stevick**, Ph.D., University of Rhode Island, Graduate School of Oceanography

2018 – 2019 **Margaret Wilson**, M.S., University of Rhode Island, Geosciences

*Graduate Thesis Defense Chair*

2021 **Dasith Perera**, Ph.D., University of Rhode Island, Biological and Environmental Sciences

2021 **Erin Chille**, M.S., University of Rhode Island, Biological and Environmental Sciences

2018 **Scott Hara**, M.S., University of Rhode Island, Ocean Engineering

*Undergraduate Research Mentoring*

2021 **Hagen Klobusnik**, Texas A&M Galveston, GSO SURFO student

2021 – present **Aidan Boving**, University of Rhode Island, SURF student

2021 – present **Oliver Carey**, University of Rhode Island

2021 – present **Abigail Goodman**, University of Rhode Island

2019 – 2020 **Ben Toles**, University of Rhode Island

2017 – 2020 **Erin Frates**, University of Rhode Island

2019 **Sommer Meyers**, U. Rochester undergraduate, GSO SURFO student

2018 **Ian Fletcher**, University of Rhode Island

2018 **Deborah Leopo**, UC-Santa Cruz undergraduate, GSO SURFO student

## University or Institution Service Activities

## 2018 – present Chair, Environmental Sustainability Committee Narragansett Bay campus, URI

2019 Invited panelist, Society of Women in Marine Science panel on grad school

2019 Member, Nautilus Galley Vendor Selection Committee, Narragansett Bay campus, URI

2018 – 2019 Coordinator, Bio at Noon Seminar series

2018 Invited Panelist, Job Application Panel for URI grad students and postdocs

2018 Invited participant, Society of Women in Marine Science URI Mixer

2017 Invited Presenter, URI GSO Dean’s Advisory Council Meeting

2017 Invited Panelist, Job Application Panel for WHOI postdocs

2015 – 2016 Member, WHOI Women’s Committee

2014 Member, WHOI Postdoctoral Association Committee 2008 – 2013 Member, Harvard Graduate Women in Science and Engineering Board

2008 – 2013 Mentor, Harvard Women in Science, Engineering and Technology Mentoring Program

2009 – 2011 Member, Harvard Integrated Life Sciences Student Advisory Board

**Regional, National, or International Service Activities**

2021 – present Mentor, Deep-Sea Biology Society mentoring program

2021 – present Member, Organizing Committee for 2nd Rhode Island Microbiome Symposium

2021 – present Member, Canadian Scientific Submersible Facility User Committee

2019 – present Topics editor, Frontiers in Ecology and Evolution:

Symbiotic Relationships as Shapers of Biodiversity

2019 – present Member, UNOLS Deep Submergence Science Committee

2019 – 2020 Member, Organizing Committee for 1st Rhode Island Microbiome Symposium

## 

**Public Interest and Outreach Activities**

2021 Invited speaker, Inner Space Center Ocean Exploration Summer Camp Introduction

2021 Invited speaker, NOAA Office of Ocean Exploration and Research Online Educator Professional Development Mini-Series

2019-present InnerSpace Center, *co-development of hydrothermal vent educational materials*

2019 Invited speaker, *Greene High School National Honor Society Induction Ceremony*

2018 Skype-a-Scientist, *interaction with Wisconsin elementary school class*

2018 URI GSO’s Open House, *hydrothermal vents booth*

2017 Ocean Exploration Trust, *Instagram Takeover*

2017 URI GSO’s Open House, *hydrothermal vents booth*

2016, 2017 Science Fair Judge, Falmouth Academy

2016 Ocean Exploration Trust, *Ship-to-shore live streaming event*

2016 Schmidt Ocean Institute, *Ship-to-shore live streaming event*

2015Zephyr Education Foundation, *Developed outreach activity*, “Culturing marine microbes”

2013 The Boston Malacological Club *Invited speaker,* “Molluscs in Symbiosis”

2011 Harvard Science in the News, *Speaker*, “Microbial Lessons from the Deepwater Horizon,”

2009 **R.A. Beinart** and P.R. Girguis. The Giant Tubeworm. World Book Encyclopedia

**Research Cruises and Fieldwork**

Sept. 2019 *R/V Endeavor* – Baltimore Canyon cold seeps (PI and remote chief sci)

Aug. – Sept. 2018 *Rhode Island Dept. of Environmental Management* – Coastal Pond Benthic Surveys

Aug. 2018 *Stony Brook University* – Shinnecock Bay Benthic Survey

Oct. 2017 *E/V Nautilus –* Northern Guaymas Basin

Oct. 2016 *R/V Atlantis* – Eastern Pacific Rise

July 2016 *E/V Nautilus* – Southern California coast

April 2016 *R/V Falkor* – Eastern Lau Spreading Center, Tonga

July 2014 *R/V John Strickland* – Saanich Inlet, Canada

May – July 2009 *R/V Thompson* - Eastern Lau Spreading Center, Tonga

March – April 2007 *R/V Kilo Moana* - South Pacific

2006 – 2008 *R/V Point Lobos* - Monterey Bay monthly day cruises