Raúl A. González-Pech, PhD
Curriculum vitae

Department of Biology
College of Science and Engineering
Texas State University

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WoS ResearcherID: C-7968-2017 | **Scopus:** 56621437200 | **ORCID:** 0000-0001-9808-297X

Education

2016-2020 PhD in Comparative Genomics | Institute for Molecular Bioscience
The University of Queensland, Australia
Dissertation: Genome evolution of Symbiodiniaceae
Supervisors: Cheong Xin Chan, Mark A. Ragan & Lachlan Coin

2013-2015 MSc in Evolution, Ecology and Systematics | Faculty of Biology
Ludwig-Maximilians University of Munich, Germany
Thesis: Individual plasticity *vs.* stress response: lessons from a transcriptome survey of an adult coral exposed to low pH
Supervisors: Gert Wörheide, Sergio Vargas & Warren R. Francis

2007-2013 BSc in Biology | School of Biological Sciences
Autonomous University of Nuevo Leon, Mexico
Thesis (in Germany): Transmission of intracolonial genetic variability through sexual reproduction in *Acropora hyacinthus*
Supervisors: Kathrin Lampert & Maximilian Schweinsberg

Research Appointments

2025-present Assistant Professor | Department of Biology | Texas State University, USA

2022-2025 Eberly Postdoctoral Research Fellow | Department of Biology | The Pennsylvania State University, USA

2020-2022 Postdoctoral Scholar | Department of Integrative Biology (Parkinson Lab) | University of South Florida, USA

2019 Trainee | Climate Change Cluster (Suggett Lab) | University of Technology Sydney, Australia

2018-2019 Placement Student | Gut Microbiome Function Research Team (McSweeney Lab) | Commonwealth Scientific and Industrial Research Organisation, Australia

2013-2015 Graduate Researcher | Molecular Geo- & Paleobiology Lab (Wörheide Lab) | Ludwig-Maximilians University of Munich, Germany

2014 Student Job | German Barcode of Life Project (Supervised by Jerome Moriniere) | Bavarian State Collection of Zoology, Germany

Graduate Researcher | Statistical Genetics Group (Metzler Lab) | Ludwig-Maximilians University of Munich, Germany

2012-2013 Social Service | Beneficial Insects Collection (González-Hernández Lab) | Autonomous University of Nuevo Leon, Mexico

2012 Undergraduate Researcher | Department of Animal Evolution, Ecology & Biodiversity (Lampert Lab) | Ruhr-University of Bochum, Germany

2010 Undergraduate Intern | Marine Ecology Department (Turon Lab) | Blanes Centre for Advanced Studies, Spain

2009 Undergraduate Intern | Ecophysiology Lab (Mendoza-Alfaro Lab) | Autonomous University of Nuevo Leon, Mexico

2008 Undergraduate Intern | Department of Marine Ecology (Ibarra-Obando Lab) | Ensenada Center for Scientific Research and Higher Education, Mexico

2007 High School Intern | Department of Histology (Montes de Oca-Luna Lab) | Autonomous University of Nuevo Leon, Mexico

Funding

2026 Co-PI | pending
Symbiosis in Aquatic Systems Initiative Request for Proposals | Gordon and Betty Moore Foundation
"Ecology and Evolution of Open-Ocean Symbioses: Dinoflagellates and Radiolarians"

PI | $24,000 USD
Research Enhancement Program | Texas State University
"Advancing the understanding of the genomic basis of symbiosis"

PI | $1,000 USD
Bobcat IDEA Undergraduate Research Support | Texas State University
"*Hydra viridissima* Computational Genomics Project"

External Consultant | $21,000
Biodiversity in a Changing Planet | National Science Foundation
Collaborative Research: "Ancient DNA approaches to reconstruct global anthropogenic impacts on coral reefs"

2024 Postdoctoral trainee and writer | $5,000 USD
Interdisciplinary Innovation Fellowship | Penn State One Health Microbiome Center
"The role of symbiont terpenoid biosynthesis in host development"

Co-PI | $7,500 USD
Associate Director for Science and Chief Scientist Rolling Grant | Smithsonian Institution
"Phylogenomics of coral symbiosis: Testing an approach to target-capture ultraconserved elements in coral photosymbionts"

Fellow | $5,000 USD
Eberly Postdoctoral Research Fellowship | Eberly College of Science, The Pennsylvania State University
"Epigenetic regulation of transcript variants involved in the heat stress response of coral symbionts (family Symbiodiniaceae)"

2023 PI | $1,000 USD
Undergraduate Research Support | Eberly College of Science, The Pennsylvania State University
"Novel genomic markers to study diversity and evolution of coral symbionts"

Fellow | $5,000 USD
Eberly Postdoctoral Research Fellowship | Eberly College of Science, The Pennsylvania State University
"Epigenetic regulation of transcript variants involved in the heat stress response of coral symbionts (family Symbiodiniaceae)"

2022 Fellow | $5,000 USD
Eberly Postdoctoral Research Fellowship | Eberly College of Science, The Pennsylvania State University
"Epigenetic regulation of transcript variants involved in the heat stress response of coral symbionts (family Symbiodiniaceae)"

2021 PI | $2,400 USD
Grants-in-Aid of Research | Phycological Society of America
"Epigenetic regulation of transcript variants involved in the heat stress response of coral symbionts (family Symbiodiniaceae)"

2019 Co-PI | $1,500 AUD
Ethel Mary Read Research Grant | Royal Zoological Society of New South Wales
"Harmless refugee or dangerous invader? Identification of fitness traits that allow the subtropical coral *Pocillopora aliciae* to proliferate in Sydney Harbor"

Publications

h-index: 15 **i10-index:** 16 **Citations:** 1184

Peer-reviewed

1. Sharp V, Mammone M, Dye C, **González-Pech RA**, Yarden O & Medina M. (2026). The mycobiome of *Cassiopea xamachana* as determined by culture-based and metagenomic sequencing. *Symbiosis* 97: 339–352.
2. Lera-Lozano D, Ruiz Toquica JS, Kratman SA, Holt MW, McIntyre CA, Jones E, Lopez-Victoria M, Ritchie K, Medina M & **González-Pech RA**. (2025). Genomic potential of crustose coralline algae-associated bacteria for the biosynthesis of novel antimicrobials. *Microbial Genomics* 11 (7): 001456.
3. Walling LK, Gamache MH, **González-Pech RA**, Harwood VJ, Ibrahim-Hashim A, Jung JH, Lewis DB, Margres MJ, McMinds R, Rasheed K, Reis F, van Riemsdijk I, Santiago-Alarcon D, Sarmiento C, Whelan CJ, Zalamea PC, Parkinson JE & Richards CL. (2025). Incorporating microbiome analyses can enhance conservation of threatened species and ecosystem functions. *Science of the Total Environment* 970: 178826.
4. **González-Pech RA**, Li VY, Garcia V, Boville E, Mammone M, Kitano H, Ritchie KB & Medina M. (2024). The evolution, assembly, and dynamics of marine holobionts. *Annual Review of Marine Science* 16: 1.
5. **González-Pech RA**, Shepherd J, Fuller ZL, LaJeunesse TC & Parkinson JE. (2024). The genome of a giant clam zooxanthella (*Cladocopium infistulum*) offers few clues to adaptation as an extracellular symbiont with high thermotolerance. *BMC Genomics* 25: 914.
6. Paz-García DA, Armstrong EJ, Popovic I, **González-Pech RA** & Hellberg ME. (2023). Editorial: Innovative approaches to coral reef science by early career researchers. *Frontiers in Marine Science* 10: 1322657.
7. Davies S, Gamache MH, Howe-Kerr LI, Kriefall NG… **González-Pech RA**… Correa A & Parkinson JE. (2023). Building consensus around the assessment and interpretation of Symbiodiniaceae diversity. *PeerJ* 11: e15023.
8. **González-Pech RA**, Hughes DJ, Strudwick P, Lewis BM, Booth DJ, Figueira WF, Brigitte Sommer B, Suggett DJ & Matthews J. (2022). Physiological factors facilitating the persistence of *Pocillopora aliciae* and *Plesiastrea versipora* in temperate reefs of Southeastern Australia under ocean warming. *Coral Reefs* 41: 1239-53.
9. Dougan KE, **González-Pech RA**, Stephens TG, Shah S, Chen Y, Ragan MA, Bhattacharya D, & Chan CX. (2022). Genome-powered classification: insights gained from coral algal symbionts. *Trends in Microbiology* 30 (9): 831-840.
10. Bernard G, Stephens TG, **González-Pech RA** & Chan CX. (2021). Inferring phylogenomic relationship of microbes using scalable alignment-free methods. In: *Bacterial Pangenomics: Methods and Protocols, Methods in Molecular Biology*. Vol. 2242 (eds. Mengoni A *et al.*). Springer Nature.
11. **González-Pech RA**, Stephens TG, Chen Y, Mohamed AR, Cheng Y, Shah S, Dougan KE, Fortuin MDA, Lagorce R, Burt DW, Bhattacharya D, Ragan MA & Chan CX. (2021). Comparison of 15 dinoflagellate genomes reveal extensive sequence and structural divergence in family Symbiodiniaceae and genus *Symbiodinium*. *BMC Biology* 19: 73.
12. Jacobus AP, Stephens TG, Youssef P, **González-Pech RA**, Ciccotosto-Camp MM, Dougan KE, Chen Y, Basso LC, Frazzon J, Chan CX & Gross J. (2021). Comparative genomics supports that Brazilian bioethanol *Saccharomyces cerevisiae* comprise a unified group of domesticated strains related to cachaça spirit yeasts. *Frontiers in Microbiology* 12: 687.

13. Stephens TG, **González-Pech RA**, Cheng Y, Mohamed AR, Burt D, Bhattacharya D, Ragan MA & Chan CX. (2019). Genomes of the dinoflagellate *Polarella glacialis* encode tandemly repeated single-exon genes with adaptive functions. *BMC Biology* 18 (1): 1-21.
14. Chen Y, **González-Pech RA**, Stephens TG, Bhattacharya D & Chan CX. (2020). Evidence that inconsistent gene prediction can mislead analysis of algal genomes. *Journal of Phycology* 56: 6-10.
15. **González-Pech RA**, Bhattacharya D, Ragan MA & Chan CX. (2019). Genome evolution of coral reef symbionts as intracellular residents. *Trends in Ecology and Evolution* 34 (9): 799-80. **[Featured on cover]**
16. **González-Pech RA**, Stephens TG & Chan CX. (2018). Commonly misunderstood parameters of NCBI BLAST and important considerations for users. *Bioinformatics* 35 (15): 2697-8.
17. Liu H, Stephens TG, **González-Pech RA**, Beltran VH, Lapeyre B, Bongaerts P, Cooke I, Aranda M, Bourne DG, Forêt S, Miller DJ, van Oppen MJ, Voolstra CR, Ragan MA & Chan CX. (2018). *Symbiodinium* genomes reveal adaptive evolution of functions related to coral-dinoflagellate symbiosis. *Communications Biology* 1, 95.
18. **González-Pech RA**, Ragan MA & Chan CX. (2017). Signatures of adaptation and symbiosis in genomes and transcriptomes of *Symbiodinium*. *Scientific Reports* 7 (1), 15021.
19. **González-Pech RA**, Vargas S, Francis WR & Wörheide G. (2017). Transcriptomic resilience of the *Montipora digitata* holobiont to low pH. *Frontiers in Marine Science* 4, 403.
20. Voigt O, Erpenbeck D, **González-Pech RA**, Al-Aidaroos AM, Berumen ML & Wörheide G. (2017). Calcinea of the Red Sea: providing a DNA barcode inventory with description of four new species. *Marine Biodiversity* 47, 1009-34.
21. Schweinsberg M, **González-Pech RA**, Tollrian R, Lampert KP. (2014). Transfer of intracolonial genetic variability through gametes in *Acropora hyacinthus* corals. *Coral Reefs* 33 (1), 77-87.
22. Erwin PM, López-Legentil S, **González-Pech RA** & Turon X (2012) A specific mix of generalists: bacterial symbionts in Mediterranean *Ircinia* spp. *FEMS Microbiology Ecology* 79 (3): 619-37.

In Progress

González-Pech RA, Dyez K, Lizcano-Sandoval L, Eisenhofer-Philipona R, Marciniak S, Howe C, Roitman S, Marulanda-Gomez AM, Rodriguez-Ramirez A, Falta N, Knowles B, Perry GH, Weyrich L, Lopez-Victoria M, Cole JE & Medina M. (2026). A paleogenomic and paleoclimatic approach to reconstruct historical responses of coral holobionts to anthropogenic change. *bioRxiv*.

Gomez-Campo K, Martinez-Rugerio I, Gómez-Reali MA, **González-Pech RA**, Michel Geovanni Santiago-Martínez MG, Turnham KE, LaJeunesse TC, Baums IB, Enríquez S & Iglesias-Prieto R. (Under review). The cost of living in the coral dinoflagellate symbiosis: energetics of light acclimation.

González-Pech RA, Chan CX, Davies SW, Frommlet JC, Metz S, Parkinson JE, Quigley KM, Reimer JD, Sweet M, Voolstra CR & Ziegler M, Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team & Aquatic Symbiosis Genomics Project Leadership. (Under review). The genome sequence of *Freudenthalidium heronense* (family Symbiodiniaceae).

LaJeunesse TC, **González-Pech RA**, Lopez JV, Pruzinsky N, Oatley G, Clayton-Lucey IA, Sinclair E, Aunin E, Gettle N, Santos C, Paulini M, McKenna V, O'Brien R, Niu H, Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team & Aquatic Symbiosis Genomics Project Leadership. (Under review). The chromosomal genome sequence of the free-living dinoflagellate *Symbiodinium pilosum*.

Parkinson JE, Chan CX, Davies SW, **González-Pech RA**, Metz S, Quigley KM, Reimer JD, Sweet M, Voolstra CR & Ziegler M, Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team & Aquatic Symbiosis

Genomics Project Leadership. (Under review). The genome sequence of *Breviolum psygmophilum* (family Symbiodiniaceae).

LaJeunesse TC, Chan CX, Davies SW, **González-Pech RA**, Metz S, Parkinson JE, Quigley KM, Reimer JD, Sweet M, Voolstra CR & Ziegler M, Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team & Aquatic Symbiosis Genomics Project Leadership. (Under review). The genome sequence of *Effrenium voratum* (family Symbiodiniaceae).

Quigley KM, Alvarez-Roa C, Chan CX, Davies SW, **González-Pech RA**, LaJeunesse TC, Metz S, Parkinson JE, Reimer JD, Sweet M, Voolstra CR & Ziegler M, Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team & Aquatic Symbiosis Genomics Project Leadership. (Under review). The genome sequence of *Gerakladium* sp. JEP-2021 (family Symbiodiniaceae).

Metz S, Chan CX, Davies SW, Frommlet JC, **González-Pech RA**, Parkinson JE, Quigley KM, Reimer JD, Sweet M, Voolstra CR & Ziegler M, Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team & Aquatic Symbiosis Genomics Project Leadership. (Under review). The genome sequence of *Gerakladium* sp. JEP-2021 (family Symbiodiniaceae).

Li VY, **González-Pech RA**, Lera-Lozano D, Román-Reyna V & Medina M. (2025). Evaluation of full-length *16S* rRNA amplicon sequencing using Oxford Nanopore Technologies for diversity surveys of understudied microbiomes. *bioRxiv*.

Ruiz Toquica JS, Lera-Lozano D, **González-Pech RA** & Medina M. (In preparation). Genomic assessment of a coral probiotic consortium reveals oxidative stress protection and other beneficial traits.

Walling L, van Riemsdijk I, **González-Pech RA**, Mounger J, Schmid MW, Parkinson JE & Richards C. (In preparation). Low genetic and epigenetic variation in the invasive cordgrass *Spartina alterniflora* in France.

Teaching Experience

2026	Instructor | BIO 4432/5432 Microbial Genomics/BIO 7361C Advanced Genomics & Bioinformatics | Texas State University | Undergraduate and graduate course
	Instructor | BIO 4351F Marine Ecology and Conservation | Texas State University | Undergraduate course
2025	Guest lecturer | BIO 4432/5432 Bacterial Genomics | Texas State University | Undergraduate and graduate course
	Guest lecturer | BIOL 483 Coastal Biology | The Pennsylvania State University | Undergraduate course
	Guest lecturer | BSC 4930/6936 Coral Reefs | Florida Atlantic University | Undergraduate and graduate course
2024	Instructor | BIOL 497 Ecology and Evolution of Coral Reefs | The Pennsylvania State University | Undergraduate course
	Guest lecturer | BIOL 483 Coastal Biology | The Pennsylvania State University | Undergraduate course
	Guest lecturer | ANSC 456 Animal Microbiomes | The Pennsylvania State University | Undergraduate course
2023	Guest lecturer | ANSC 456 Animal Microbiomes | The Pennsylvania State University | Undergraduate course

	Instructor | ECLGY 550 Current Issues Microbiome Sciences | The Pennsylvania State University | Graduate course
2022	Guest lecturer | BI/ES 593 Marine Physiology and Climate Change | Boston University | Undergraduate and graduate course
	Guest lecturer | ANSC 456 Animal Microbiomes | The Pennsylvania State University | Undergraduate course
	Guest lecturer | BIOL 497 Biological Oceanography | The Pennsylvania State University | Undergraduate course
2021	Guest lecturer | BSC 6932 Organic Evolution | University of South Florida | Graduate course
	Guest lecturer | PCB 4674 Organic Evolution | University of South Florida | Undergraduate course
	Guest lecturer | Introduction to Microbiology Laboratory | New College of Florida | Undergraduate course
	Organizer an instructor | Introduction to R | University of South Florida (Parkinson Lab) | Undergraduate and graduate workshop
2016-2019	Tutor | BINF 6000 Concepts in Bioinformatics | The University of Queensland | Graduate course
2018	Tutor | BINF 7000 Advanced Bioinformatics | The University of Queensland | Graduate course
2017-2018	Tutor | MICR 3004 Microbial Genomics | The University of Queensland | Graduate course
2016-2018	Tutor | BIOL 3004 Genomics & Bioinformatics | The University of Queensland | Graduate course
2014	Tutor | Geobiological Field Methods: Coral Reefs | Ludwig-Maximilians University of Munich | Graduate course
2010-2011	Tutor | Basic Concepts of Biology | Autonomous University of Nuevo Leon | Undergraduate course
2009-2010	Tutor | Biology of Insects | Autonomous University of Nuevo Leon | Undergraduate course

Awards

2022-2025	Eberly Postdoctoral Research Fellowship | PSU Eberly College of Science
2024	CnidoFest Registration Fee Waver Award
	Cassiopea Workshop Travel Fund
2023	International Society for Endocytobiology Conference Travel Grant (unattended)
	Cassiopea Workshop Moore Foundation Travel Fund
2022	PSU Microbiome Center Community Building Travel Award
2016	Winter School Award | Institute for Molecular Biology, The University of Queensland
2009	Citizen Distinction | Mayor of Coatzacoalcos, Mexico
2007	Gold Medal | Ibero-American Biology Olympiad
	Gold Medal | Mexican Biology Olympiad
2006	Silver Medal | Mexican Biology Olympiad

Internships, Trainings & Scholarships

2019	Early Career Training Program | Coral Bleaching Research Coordination Network
	Career Development Framework | The University of Queensland
2016-2019	Centennial Scholarship | The University of Queensland
	International Postgraduate Research Scholarship | The University of Queensland
2015	Floating Summer School in Marine Biology & Oceanography (unattended) | North South Atlantic Training Transect

2013-2015	Postgraduate Scholarship | Mexican National Council of Science (CONACYT) & German Academic Exchange Service (DAAD)
2011-2012	Exchange Scholarship for Young Engineers | Autonomous University of Nuevo Leon & German Academic Exchange Service (DAAD)
2010	JAE Intro Summer Research Internship | Spanish National Research Council
2009	PROVERICYT Summer Research Internship | Autonomous University of Nuevo Leon
2008	Summer Research Internship | Mexican Academy of Sciences
2007-2012	Academic Merit Scholarship | Autonomous University of Nuevo Leon
2007	Summer Research Internship | Mexican Academy of Sciences
2006	Science for Youth Workshop | National Autonomous University of Mexico, Ensenada Center for Scientific Research and Higher Education & Autonomous University of Baja California

Presentations

Invited seminars

2025 Department of Biology, Texas State University, USA
Department of Biology and Marine Biology, University of North Carolina Wilmington, USA
Larry Mays Seminar Series in Bioinformatics, Department of Bioinformatics and Genomics, University of North Carolina Charlotte, USA (Virtual)

2024 Helmholtz Institute for Marine Functional Biodiversity, Germany
Keynote, Genomics Symposium, Center for Genomics, The University Kansas, USA

2023 Biology Department, Hope College, USA
Institute of Marine and Environmental Technology, University System of Maryland, USA

2022 Microbiome Center Seminar Series, The Pennsylvania State University, USA
Marine and Environmental Biology Section, University of Southern California, USA (Virtual)

2021 Department of Biology, Boston University, USA (Virtual)
Department of Biochemistry and Microbiology, Rutgers University, USA (Virtual)
Department of BioSciences, Rice University, USA (Virtual)
Marine BioGenomics Seminar Series, Biological Research Centre of the North-West (CIBNOR), Mexico (Virtual)

2020 Electronic Symposium on Protistology (Virtual)

2018 Joint Academic Microbiology Seminars Brisbane, Australia

Oral presentations

2026 International Coral Reef Symposium, New Zealand

2025 PSU Ancient DNA Consortium Annual Meeting

2024 International *Cassiopea* Workshop and Conference, USA

2023 International *Cassiopea* Workshop and Conference, USA

2021 International Coral Reef Symposium (Virtual)
Phycological Society of America Annual Meeting (Virtual)
PSB 2021: Bioinformatics of Corals Workshop (Virtual)

2019 Australian Coral Reef Society Conference, Australia

2017 European Coral Reef Symposium, UK (×2)
Australian Coral Reef Society Conference, Australia

Posters

2024 CnidoFest, USA
Changing Microbiomes Symposium, The Pennsylvania State University, USA
Society for Molecular Biology and Evolution Meeting, Mexico
2023 Gordon Research Seminar in Animal-Microbe Symbiosis, Italy
Gordon Research Conference in Animal-Microbe Symbiosis, Italy
2022 CNRS-Jacques Monod Conference "From parasites to plankton and back: comparative biology and ecology of apicomplexans and dinoflagellates", France
Changing Microbiomes Symposium, The Pennsylvania State University, USA
2017 Society for Molecular Biology and Evolution Meeting, Japan
EMBL Postgraduate Symposium, Australia
2016 IMB Higher Degree in Research Student Symposium, The University of Queensland
2015 Global Invertebrate Genomics Alliance (GIGA) Workshop, Germany

Professional Service

2026	Member | Biology Tenure & Promotion Committee | Texas State University
	Co-Chair | Session 124: #124 | Reefs through time: leveraging today's interdisciplinary tools to better understand the past of reef organisms and ecosystems | International Coral Reef Symposium (upcoming)
	Faculty Advisor | SACNAS TXST Chapter
2025	Vendor | SACNAS Annual Conference
2023-present	Associate Editor | Frontiers in Protistology
2022-2025	Postdoc Representative | Biology Climate and Diversity Committee | The Pennsylvania State University
2022-2023	Research Topic Editor | *Innovative Approaches to Coral Reef Science by Early Career Researchers* | Frontiers in Marine Science
2022	Invited Judge | Biology Student Research Showcase | The Pennsylvania State University
2019-2020	Councilor for the Australian Coral Reef Society
2021-present	*Ad hoc* reviewer: National Science Foundation: Biological Oceanography and Ecosystems (1), French National Research Agency: "CE02 - Terre vivante" (2), Research Grants Council of Hong Kong (1)
2018-present	Reviewer for: Molecular Ecology (10), BMC Genomics (3), Science Advances (2), Coral Reefs (3), Frontiers in Marine Science (2), Nucleic Acids Research (1), Communications Biology (1), Marine Pollution Bulletin (1), PeerJ (3), Frontiers in Microbiology (1), The ISME Journal (1)
2018	Conference Co-organizer of EMBL Australia Postgraduate Symposium

Mentoring

Direct Supervision

2026-present	Caleb Hernandez | PhD Student | Texas State University
	John Yudt | Master student | Texas State University
2026	Katie Sheppart | ASPIRE Undergraduate Student Fellow | Texas State Unversity
	Kevin Tran | ASPIRE Undergraduate Student Fellow & Bobcat IDEA Undergraduate Researcher | Texas State Unversity
2025-present	Caleb Butler | Postdoctoral Researcher | Texas State University

2025-2026	Sydney Dutton | Laboratory Technician | Texas State University
2025	Katie Sheppart | Undergraduate Researcher | Texas State Unversity
	Kevin Tran | Undergraduate Researcher | Texas State Unversity
2023	Samantha Kratman | Undergraduate Intern | NASA Pennsylvania Space Grant Consortium Undergraduate Research Internship Program | The Pennsylvania State University

Graduate Committee Member

2026-present	Brittany Moser | Master Thesis Committee | Texas State University
2025-2026	Milon Hosen | Master Thesis Committee | Texas State University

Informal Research Supervision

2024-present	Samantha Kratman (BSc) | The Pennsylvania State University
2023-2025	Diego Lera-Lozano (BSc) | The Pennsylvania State University
2022-2025	Clancy McIntyre (PhD) | The Pennsylvania State University
	Caleb Butler (PhD) | The Pennsylvania State University
	Colin Howe (PhD) | The Pennsylvania State University
	Julia Stewart (MA) | The Pennsylvania State University
	Vivian Yifan Li (PhD) | The Pennsylvania State University
2022	Michael Hewitt (BSc) | The Pennsylvania State University
	Vanessa Garcia (PhD) | The Pennsylvania State University
	Sophia DeGuara (BSc) | The Pennsylvania State University
2021-2023	Lauren Walling (PhD) | University of South Florida
2021	Victoria Carter (BSc) | University of South Florida
2020	Matthew H. Gamache (PhD) | University of South Florida
2019	Yibi Chen (MSc) | The University of Queensland
2018	Christopher Wrona (BSc) | The University of Queensland
	Rémi Lagorce (BEng) | Polytech Nice Sophia
2017-2018	Clarisse Louvard (BSc) | The University of Queensland
2015	Lilly von Kalckreuth (Secondary school) | Ludwig-Maximilians University of Munich

Professional Development

2025-2026	Scholarship & Teaching Excellence Program | Texas State University
	ASPIRE Entering Mentoring Training | Texas State University
2025	Attendee | Texas Groundwater Invertebrate Forum
2023	Faculty Mentor | PA Space Grant Undergraduate Research | NASA Pennsylvania State Grant Consortium

Outreach

2026	CoSE Open Day | Texas State University
2024	Ambassador | DNA Day Penn State outreach program for underserved high schools
2023	Ambassador | DNA Day Penn State outreach program for underserved high schools
2021	Invited Speaker | *Life Science Café* | University of Massachusetts Amherst

Languages

Spanish | Mother language
English | Professionally proficient
German | Proficient

Licenses

2023- AAUS Scientific Diver
NAUI Advanced Open Water Diver
NAUI Nitrox Diver
NAUI Rescue Scuba Diver
NAUI Deep Diver