# René D. Clark

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Ph.D. in Ecology & Evolution, Rutgers University. <u>Advisor:</u> Dr. Malin Pinsky.
<u>Dissertation:</u> "Spatial and temporal patterns of adaptation and adaptive potential in a
changing ocean"
M.S. in Biology, Saint Joseph's University. Advisor: Dr. Jonathan Fingerut.
<u>Dissertation:</u> "The effect of microtopography on blackfly larval settlement & an analysis
of female postcopulatory behavior in Drosophila suzukii"
B.S. in Biology – Ecology Option, Pennsylvania State University, summa cum laude.

#### PROFESSIONAL EXPERIENCE

2024-Present	NSF Postdoctoral Research Fellow, Drexel University
2023-2024	Postdoctoral Researcher, Drexel University
2017-2023	Graduate Research Assistant, Rutgers University
2015-2017	Graduate Research Assistant, Saint Joseph's University
2014-2015	Americorps Member, City Year, Philadelphia School District
2012-2014	Undergraduate Research Assistant, Pennsylvania State University
2012	Animal Husbandry Intern, Pittsburgh Zoo & PPG Aquarium
2011	Laboratory Technician, Telecardia Inc.

### GRANTS, HONORS, AWARDS (total: \$295,800)

2024	NSF Postdoctoral Research Fellowship in Biology: Award #2410397 (\$240,000)
2023	NSF Discover ACCESS Grant, co-PI
2021	CRRSAA/HEERF Doctoral Advancement Award (\$35,000)
2020	RCN for Evolution in Changing Seas Working Group Grant (\$16,000)
2019	Rutgers Ecology & Evolution Departmental Conference Travel Award (\$500)
2018	Ecology & Evolution Departmental Small Grant Award (\$1,000)
2017	Rutgers School of Environmental and Biological Sciences Excellence Fellowship
2017	Outstanding Student Presentation, NAFBA
2017	Saint Joseph's University Travel Award (\$300)
2013 & 2014	Pennsylvania State University Undergraduate Research Grant (\$3,000 total)
2013 & 2014	Pennsylvania State University Evan Pugh Scholar Award

### **PUBLICATIONS**

**Bold** is self. *Italicized* is undergraduate mentee.

#### In review

- 11. **René D. Clark**, Brendan N. Reid, Eric Garcia, *Marial Malabag*, Robin S. Waples, Rene A. Abesamis, Jemelyn Grace P. Baldisimo, Abner A. Bucol, Kyra S. Fitz, Sharon F. Magnuson, Richard N. Muallil, Cleto L. Nanola Jr., Roy Roberts, John C. Whalen, Christopher E. Bird, Kent E. Carpenter, Malin L. Pinsky (2025) Anthropocene genetic diversity loss in the marine tropics. *PNAS*. Revision submitted. (manuscript available upon request)
- 10. *Marial J. Malabag*, **René D. Clark** & Malin L. Pinsky (2023) Variation in marine genetic diversity Across life history traits. *Evolution*. <u>In Revision</u>. *(manuscript available upon request)*

#### Peer-reviewed publications

- 9. Kyra S. Fitz, Rene A. Abesamis, Jemelyn Grace P. Baldisimo, Abner A. Bucol, **René D. Clark**, Eric Garcia, Ivan R. Lopez, Sharon F. Magnuson, Marial J. Malabag, Richard N. Muallil, Lynne R. Parenti, Brendan R. Reid, Mudjekeewis D. Santos, Christopher E. Bird, Kent E. Carpenter, Malin L. Pinsky (2025) Preservation of genetic diversity and selection over a century in a coral reef fish (*Taeniamia zoseterophora*) in the Philippines. *The American Naturalist*. (doi:10.1086/738468)
- 8. Ivan Paz-Vinas, Amy G. Vandergast, Chloé Schmidt, Deborah M. Leigh, Simon Blanchet, **René D. Clark**, Eric D. Crandall, Hanne De Kort, Jeff Falgout, Colin J. Garroway, Eleana Karachaliou, Francine Kershaw, David O'Brien, Malin L. Pinsky, Gernot Segelbacher & Magaret E. Hunter (2025) Uneven genetic data limits biodiversity assessments in protected areas globally. *Frontiers in Ecology & the Environment*, e2867. (doi:10.1002/fee.2867).
- 7. **René D. Clark**, Katrina A. Catalano, Kyra S. Fitz, Eric Garcia, Kyle E. Jaynes, Brendan N. Reid, Allyson Sawkins, Anthony A. Snead, John C. Whalen & Malin L. Pinsky (2025) The practice and promise of temporal genomics for measuring evolutionary responses to global change. *Molecular Ecology Resources*, 25:e13789 (doi:10.1111/1755-0998.13789)
- 6. **René D. Clark** & Malin L. Pinsky (2024) Global patterns of nuclear and mitochondrial genetic diversity in marine fishes. *Ecology and Evolution*, 14:e11365. (doi:10.1002/ece3.11365)
- 5. Malin L. Pinsky, **René D. Clark**, Jaelyn T. Bos (2023) Coral reef population genomics in an age of global change. *Annual Review of Genetics*, 57:87-115. (doi:10.1146/annurev-genet-022123-102748)
- 4. Anthony Snead & **René D. Clark**. (2022) The biological hierarchy, time, and temporal 'omics in evolutionary biology: A perspective. *Integrative and Comparative Biology*, 62:1872-1886. (doi:10.1093/icb/icac138)
- 3. **René D. Clark**, Matthew L. Aardema, Peter Andolfatto, Paul H. Barber, Akihisa Hattori, Jennifer A. Hoey, Humberto R. Montes Jr. & Malin L. Pinsky. (2021) Genomic signatures of spatially divergent selection at clownfish range margins. *Proceedings of the Royal Society B: Biological Sciences*, 288:20210407. (doi:10.1098/rspb.2021.0407)
- 2. **René D. Clark**, *Marissa DiPiero*, Jonathan T. Fingerut, & Scott P. McRobert. (2020) An analysis of female postcopulatory behavior in *Drosophila suzukii* and *Drosophila biarmipes*. *Journal of Insect Behavior*, 33:193-200. (doi:10.1007/s10905-020-09761-x)

#### Other

1. Zoë J. Kitchel, R. M. W. J. Bandara, Jaelyn T. Bos, **René D. Clark**, Daniel L. Forrest, Malin L. Pinsky. (2021) Book Review: Ocean Recovery: A Sustainable Future for Global Fisheries? *Fisheries*, 46:201. (doi:10.1002/fsh.10580)

### TEACHING EXPERIENCE

Instruction	
2025	Quantitative Methods for Ecology & Conservation, ASU Online (quarter course, coinstructor)
2023	Principles of Ecology, Rutgers University (semester course, teaching assistant)
2023	Quantitative Methods for Ecology & Conservation, ASU Online (quarter course, teaching assistant)
2020-2023	Conservation Biology, Rutgers University (semester course, teaching assistant)
2021	General Biology, Rutgers University (semester course, teaching assistant)
2020	Principles of Biology, Rutgers University (semester course, head teaching assistant)
2018	Special Topics in Ecology, Rutgers University (semester course, co-instructor)
2013	Evolution, Pennsylvania State University (semester course, teaching assistant)

# Workshop instruction

2022	Bioinformatics & Genomics Workshop, Silliman University, Philippines (instructor)
2018 & 2019	Bioinformatics & Genomics Workshop, Silliman University, Philippines (instructor)

### Guest lectures

2025	Genetics & Evolution, Drexel University, Speciation.
2024	Genetics & Evolution, Drexel University, Speciation.
2023	Principles of Ecology, Rutgers University, Biodiversity & Biomes.
2023	Principles of Ecology, Rutgers University, Mimicry.
2023	Conservation Biology, Rutgers University, Human Cultures & Ideas.
2022	Ecological Data Analysis, Rutgers University, Introduction to HPCs.
2022	Ecological Data Analysis, Rutgers University, Introduction to Git & GitHub.
2021	Conservation Biology, Rutgers University, Human Culture & Ideas.
2020	Conservation Biology, Rutgers University, Invasive Species.
2019	Molecular Ecology, Rutgers University, Selection & Adaptation.

# MENTORING

<sup>\*</sup>indicates high-school student

2025	Lily Tran - Tajima's D in urban mice populations
2024-2025	Eli Parker* - Genetic diversity of tuna populations
2024-2025	Arif Yildirim* - Genetic diversity in the flora & fauna of Greece & Turkey
2022-2023	Alyssa McCoy* - Genetic diversity of Amphiprion clarkii
2022-2023	Emma Patsilevas* - Genetic connectivity of Amphiprion clarkii populations
2020-2023	Marial Malabag - The effect of reproductive traits on the maintenance of genetic
	diversity in marine species
2020	Daniel Ross-Miller* - Genetic diversity between populations of Amphiprion clarkii
	1 <sup>st</sup> place in regional Pennsylvania Junior Academy of Science (PJAS) competition
2019-2020	Adriana Chumacero - Reproductive biology of the yellow-tail barracuda in the
	Philippines
2018-2020	Marhuma Zaman - An analysis of gut and gill microbial diversity in <i>Leiognathus equulus</i>
2016-2017	Marissa DiPiero - An analysis of reproductive behavior in <i>Drosophila suzukii</i>

# WORKING GROUPS, CONFERENCES, INVITED SEMINARS

# Working groups

2023-2024	Standardizing, Aggregating, Analyzing, and Disseminating Global Wildlife Genetic and
	Genomic Data for Improved Management and Advancement of Community Best
	Practices Working Group, John Wesley Powell Center for Analysis and Synthesis
2020-2023	Temporal Genomics Working Group, RCN for Evolution in Changing Seas (lead)

# Contributed talks and posters

2024	Evolution, Anthropocene genetic diversity loss in the marine tropics. (talk)
2021	Evolution, Genomic signatures of spatially divergent selection at clownfish range
	margins. (talk)
2019	Ecological Society of America, Genomic signatures of spatially divergent selection in
	Amphiprion clarkii populations across a thermal gradient. (poster)
2017	North American Black Fly Association, The effect of micro-topography on Simulium
	tribulatum larval settlement and recruitment. (talk)

#### **Invited seminars**

2025	Texas A&M Corpus Christi, Temporal Genomics Seminar, Of mice and fish: Using natural
	history collections to explore centennial changes in demography and adaptation.
2025	Conference of the American Society of Naturalists, Of mice and fish: Using natural
	history collections to explore centennial changes in demography and adaptation.
2022	RCN for Evolution in Changing Seas Training & Integration Workshop, Temporal
	Genomics.
2022	Sustainability Seminar Series, University of Pittsburgh, Fisheries: U.S. & Abroad.
2022	Biology Seminar Series, St. Joseph's University, Large-scale patterns of adaptation and
	adaptive potential in a changing ocean.
2016	Science on the Hill, Saint Joseph's University, Small but powerful: what can we learn
	from flies, worms, and yeast?

### **OUTREACH & SERVICE**

Reviewer for NSF, The American Naturalist, Ecology & Evolution, EMBO Reports, G3 Genes | Genemes | Genetics, Gene Reports, Global Ecology and Biogeography, Journal of Animal Ecology

2025	Start Talking Science, presenter
2023-2025	Drexel Academy of Natural Sciences, Member's Night presenter
2018-2023	Ecology Teacher, Little Owls Enrichment (afterschool ecology to 1st_5th grade)
2014-2017	Science Camp Teacher, Ross Township Summer Program
2016-2017	St. Joseph's Biology Graduate Student Council (Vice President)
2014	Pennsylvania State's IFC/Panhellenic Dance Marathon (Rules & Regulations
	Captain 2014, Rules & Regulations Committee Member 2011-13)

### Pennsylvania public schools

2019-present	High school student research mentor, North Hills High School
2015-2017	GeoKids Fellow, Saint Joseph's University (presenter to K-5 <sup>th</sup> classrooms)
2014-2015	AmeriCorps Volunteer, City Year, Philadelphia School District

### **Rutgers University**

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2018-2022	Shorebowl volunteer
2018-2021	Ecology & Evolution Graduate Student Association (Outreach Chair 2020-21, Secretary
	2020-21, Treasurer 2018-20)
2019	Geology Museum, open house presenter

# **MEMBERSHIPS**

American Society of Naturalists Association for Women in Science Ecological Society of America Society for the Study of Evolution