

# René D. Clark

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## EDUCATION

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- 2017-2023 *Ph.D. in Ecology & Evolution*, Rutgers University. Advisor: Dr. Malin Pinsky  
Dissertation: Spatial and temporal patterns of adaptation and adaptive potential in a changing ocean.
- 2015-2017 *M.S. in Biology*, Saint Joseph's University. Advisor: Dr. Jonathan Fingerut.  
Dissertation: The effect of microtopography on blackfly larval settlement & an analysis of female postcopulatory behavior in *Drosophila suzukii*
- 2010-2014 *B.S. in Biology – Ecology Option*, Pennsylvania State University, graduated with *Highest Honors* (top 10 students in the program).

## PROFESSIONAL EXPERIENCE

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- 2023-Present Postdoctoral Researcher, Phifer-Rixey Lab, Drexel University
- 2017-2023 Graduate Research Assistant, Rutgers University
- 2015-2017 Graduate Research Assistant, Saint Joseph's University
- 2014-2015 Americorps Volunteer, 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.

## PUBLICATIONS

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

### Peer-reviewed publications

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*. (doi:10.1146/annurev-genet-022123-102748) In Press.
4. **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 (2023) The practice and promise of temporal genomics for measuring evolutionary responses to global change. *Molecular Ecology Resources*. (doi:10.22541/au.167102106.66610942/v1) In Press.
3. 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)
2. **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)
1. **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)

## In review

2. **René D. Clark** & Malin L. Pinsky (2023) Global patterns of genetic diversity in marine fishes. *Ecology Letters*. (doi:10.22541/au.168726266.68173061/v1) In Review.
1. *Marial J. Malabag*, **René D. Clark** & Malin L. Pinsky (2023) Variation in marine genetic diversity across life history traits. *Evolution*. In Review.

## 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)

## GRANTS, HONORS, & AWARDS

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

## TEACHING EXPERIENCE

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### Instruction

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)
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

2023	Principles of Ecology, Rutgers University, <i>Biodiversity &amp; Biomes</i> .
2023	Principles of Ecology, Rutgers University, <i>Mimicry</i> .
2023	Conservation Biology, Rutgers University, <i>Human Cultures &amp; Ideas</i> .
2022	Ecological Data Analysis, Rutgers University, <i>Introduction to HPCs</i> .
2022	Sustainability Seminar Series, University of Pittsburgh, <i>Fisheries: U.S. &amp; Abroad</i> .
2022	Ecological Data Analysis, Rutgers University, <i>Introduction to Git &amp; GitHub</i> .
2021	Conservation Biology, Rutgers University, <i>Human Culture &amp; Ideas</i> .
2020	Conservation Biology, Rutgers University, <i>Invasive Species</i> .
2019	Molecular Ecology, Rutgers University, <i>Selection &amp; Adaptation</i> .

## MENTORING

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2022-2023	<u>Alyssa McCoy</u> , North Hills High School. <i>Genetic diversity of Amphiprion clarkii</i> .
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- 2022-2023 Emma Patsilevas, North Hills High School. *Genetic connectivity of Amphiprion clarkii populations.*
- 2020-2022 Marial Malabag, Rutgers University. *The effect of reproductive traits on the maintenance of genetic diversity in marine species.*
- 2020 Daniel Ross-Miller, North Hills High School. *Genetic diversity between populations of Amphiprion clarkii. 1<sup>st</sup> place in regional Pennsylvania Junior Academy of Science (PJAS) competition; special award in state PJAS competition.*
- 2019-2020 Adriana Chumacero, Rutgers University. *Reproductive biology of the yellow-tail barracuda in the Philippines.*
- 2018-2020 Marhuma Zaman, Rutgers University. *An analysis of gut and gill microbial diversity in Leiognathus equulus.*
- 2016-2017 Marissa DiPiero, St. Joseph's University. *An analysis of reproductive behavior in Drosophila suzukii.*

## **WORKING GROUPS & PRESENTATIONS**

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### **Working groups**

- 2020-2023 Temporal Genomics Working Group, RCN for Evolution in Changing Seas (lead)

### **Invited seminars**

- 2022 RCN for Evolution in Changing Seas Training & Integration Workshop, *Temporal Genomics.*
- 2022 St. Joseph's University Biology Seminar Series, *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?*

### **Contributed talks**

- 2021 Evolution, Virtual, *Genomic signatures of spatially divergent selection at clownfish range margins.*
- 2019 Ecological Society of America, *Genomic signatures of spatially divergent selection in Amphiprion clarkii populations across a thermal gradient.*
- 2017 North American Black Fly Association, *The effect of micro-topography on Simulium tribulatum larval settlement and recruitment.*

## **ACADEMIC & COMMUNITY SERVICE**

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### **Rutgers University**

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

### **Pennsylvania public schools**

- 2015-2017 GeoKids Fellow, Saint Joseph's University (presenter to K-5<sup>th</sup> classrooms in PA)
- 2014-2015 AmeriCorps Volunteer, City Year, Philadelphia School District
- 2014-2015 Science Camp Teacher, Ross Township Summer Program

### **Other**

2018-2023 Ecology Teacher, Little Owls Enrichment (afterschool ecology to 1<sup>st</sup>-5<sup>th</sup> 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)

## **MEMBERSHIPS & PEER-REVIEW**

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### **Memberships**

American Society of Naturalists, Society for the Study of Evolution, Ecological Society of America

### **Peer-reviewer**

*Ecology & Evolution*  
*Global Ecology and Biogeography*  
*Journal of Animal Ecology*