

# Shelby A. Rinehart



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## EDUCATION

- 2018                    **PhD., Ecology**, San Diego State University and University of California, Davis Joint  
Doctoral Program, California, USA.
- 2013                    **B.Sc., Biological Sciences**, University of Rhode Island, Rhode Island, USA.

## PROFESSIONAL APPOINTMENTS

- 2023-pres.            **Assistant Professor**, Drexel University, Pennsylvania, USA.
- 2023-pres.            **Research Scientist**, The Patrick Center of the Academy of Natural Sciences,  
Pennsylvania, USA.
- 2022-pres.            **Affiliate Graduate Faculty**, University of Alabama, Alabama, USA.
- 2021- 2023            **Postdoctoral Associate**, University of Alabama, Alabama, USA.
- 2020- 2021            **Associate Science Advisor**, Westlands Water District, California, USA.
- 2018- 2020            **Postdoctoral Fellow**, The Hebrew University of Jerusalem, Jerusalem, Israel.
- 2015-2018            **National Science Foundation Graduate Research Fellow**, San Diego State  
University, California, USA.
- 2017                    **Visiting Researcher**, Tjärnö Marine Biological Laboratory, Tjärnö, Sweden.
- 2016-2017            **Visiting Researcher**, University of Oslo, Oslo, Norway.
- 2013-2014            **California Sea Grant Trainee**, San Diego State University, California, USA.
- 2009-2013            **Research Assistant**, University of Rhode Island, Rhode Island, USA.
- 2012                    **National Science Foundation Research Experience for Undergraduates Fellow**,  
University of Rhode Island, Rhode Island, USA.
- 2011                    **National Science Foundation EPSCoR Summer Undergraduate Research Fellow**,  
University of Rhode Island, Rhode Island, USA.
- 2010                    **Coastal and Environmental Fellow**, The Nature Conservancy, Rhode Island, USA.

**PUBLICATIONS** \*Student mentee, # Equal contribution

- 2023 **Rinehart, S.,** J. M. Dybiec\*, B. Mortazavi and J. A. Cherry. Stratified vertical sediment profiles increase burrowing crab effects on salt marsh edaphic conditions. *Ecosphere*. 14: e4431. doi.org/10.1002/ecs2.4431.
- 2022 **Rinehart, S.,** and D. Hawlena. Top-down effects on biological soil crust function. *Soil Biology and Biochemistry*. 173: 108804. doi.org/10.1016/j.soilbio.2022.108804.
- 2022 Walker J.#, **S. Rinehart#**, G. Greenberg-Pines\*#, W. White\*, R. DeSantiago\*, D. Lipson, and J.D. Long. Aboveground competition drives density-dependent effects of cordgrass on sediment biogeochemistry. *Ecology and Evolution*. 12: e8722. doi.org/10.1002/ece3.8722
- 2022 **Rinehart, S.,** and J.D. Long. Population responses of omnivorous arthropods to plant alternative resources suppress prey populations: a meta-analysis. *Ecology*. 103(5): e3623. doi.org/10.1002/ecy.3623
- 2022 **Rinehart, S.,** N.D. Shamir-Weller\*, and D. Hawlena. Snail mucus increases the CO<sub>2</sub> efflux of biological soil crusts. *Ecosystems*. 25: 537-547. doi.org/10.1007/s10021-021-00670-4
- 2021 Zaguri\*, M., S. Kandel\*, **S. Rinehart**, V. Torsekar, and D. Hawlena. Protein quantification in ecological studies: a literature review and empirical comparisons of standard methodologies. *Methods in Ecology and Evolution*. 12:1240-1251. doi.org/10.1111/2041-210X.13601
- 2021 Walker, J., **S. Rinehart**, W.K. White\*, E.D. Grosholz, and J.D. Long. Local and regional variation in effects of burrowing crabs on plant community structure. *Ecology*. 102(2): e03244. doi.org/10.1002/ecy.3244
- 2020 **Rinehart, S.,** and D. Hawlena. Effects of predation-risk on prey stoichiometry: A meta-analysis. *Ecology*. 101(7): e03037. doi.org/10.1002/ecy.3037
- 2020 Sperfeld, E., J.P. Nilssen, **S. Rinehart**, K. Schwenk, and D.O. Hessen. Ecology of predator-induced morphological defense traits in *Daphnia longispina* (Cladocera, Arthropoda). *Oecologia*. 192: 687-698. doi.org/10.1007/s00442-019-04588-6
- 2019 **Rinehart, S.,** and J.D. Long. Conspecific density, not pollen, reduces omnivore per capita prey consumption. *PLOS One*. 14(8): e0215264. doi.org/10.1371/journal.pone.0215264

- 2018 **Rinehart, S.**, and J.D. Long. Habitat use is linked to resource-specific performance of an ecologically important marsh predator. *Ecosphere*. 9(5): e02273.  
doi.org/10.1002/ecs2.2273.
- 2017 **Rinehart, S.**, S.C. Schroeter, and J. D. Long. Density-mediated indirect effects from active predators and narrow habitat domain prey. *Ecology*. 98: 2653-2661.  
doi.org/10.1002/ecy.1956
- 2016 Meyerson, L.A., J.T Cronin, G.P. Bhattarai, H. Brix, C. Lambertini, M. Lucanova, **S. Rinehart**, J. Suda, and P. Pysek. Do ploidy level and nuclear genome size and latitude of origin modify the expression of *Phragmites australis* traits and interactions with herbivores? *Biological Invasions*. 18:2531-2549. doi.org/10.1007/s10530-016-1200-8
- 2015 Oczkowski, A., C. Thornber, E.E. Markham, R. Rossi, A. Ziegler\*, and **S. Rinehart**. Testing sample stability using four storage methods and the macroalgae *Ulva* and *Gracilaria*. *Limnology and Oceanography Methods*. 13(1): 9-14.  
doi.org/10.1002/lom3.10002
- 2014 **Rinehart, S.**, M. Guidone, A. Ziegler\*, T. Schollmeier\*, and C. Thornber. Overwintering strategies of bloom-forming *Ulva* species in Narragansett Bay, RI. *Botanica Marina*. 57: 337-341. doi.org/10.1515/bot-2013-0122

**PUBLICATIONS IN PREP.** \*Undergraduate mentee, ^Graduate mentee, # Equal contribution

- In Review* **Rinehart, S.**, J. M. Dybiec<sup>^</sup>, E. Fromenthal<sup>^</sup>, T. Ledford<sup>^</sup>, B. Mortazavi, and J. A. Cherry. Recovery of planktonic invertebrate communities in restored and created coastal wetlands along the northern Gulf of Mexico. *Estuarine, Coastal and Shelf Science*. Submitted: 27 July 2022 (MS ID: YECSS-D-22-00496).
- In Review* **Rinehart, S.**, X. Boone<sup>^</sup>, J. Patzlaff<sup>^</sup>, S.C. Schroeter, and J. D. Long. A marine heat wave sheds light on the links between predator density and prey behavior, mortality risk, and abundance. *Ecology*. Submitted: 22 February 2023 (MS ID: ECY23-0172).
- In Revision* Dybiec<sup>^</sup>, J.M., **S. Rinehart**, and J. A. Cherry. Seasonal sediment dynamics in a constructed and natural tidal marsh in the northern Gulf of Mexico. *Wetlands*. Submitted: 27 February 2023 (MS ID: WELA-D-23-00035). Preprint:  
doi.org/10.21203/rs.3.rs-2635243/v1

- In Prep. **Rinehart, S.**, J. M. Dybiec<sup>^</sup>, J. Walker, L. Simpson, and J.A. Cherry. Vegetation and crab functional traits predict burrowing crab effects on coastal sediments: A meta-analysis.
- In Prep. **Rinehart, S.**, J. M. Dybiec<sup>^</sup>, P. Richardson<sup>#\*</sup>, J. Walker<sup>#</sup>, J.D. Peabody, and J.A. Cherry. Researcher effects on the biological structure and edaphic conditions of field sites and implications for management.
- In Prep. **Rinehart, S.**, C. Tatariw, J. M. Dybiec<sup>^</sup>, T. Ledford<sup>^</sup>, A. Hammill<sup>\*</sup>, B. Mortazavi and J. A. Cherry. Complex indirect interactions underly burrowing crab effects on nitrogen removal in tidal marshes.
- In Prep. E. Fromenthal<sup>^</sup>, J. M. Dybiec<sup>^</sup>, **S. Rinehart**, and J. A. Cherry. Beyond the marsh: tidal marsh landscape position influences insect community structure
- In Prep. **Rinehart, S.**, C. Ben Lulu<sup>\*</sup>, N. D. Shamir Weller<sup>^</sup>, and D. Hawlena. Trophic cascades on biological soil crust function mediated by shifts in snail mucus composition.
- In Prep. Dybiec<sup>^</sup>, J.M., **S. Rinehart**, T. Ledford<sup>^</sup>, B. Mortazavi, and J. A. Cherry. A metric-based indicator of functional recovery for salt marshes in the Gulf of Mexico.
- In Prep. Wiggins<sup>\*</sup>, A., J.M. Dybiec<sup>^</sup>, **S. Rinehart**, T. Ledford<sup>^</sup>, B. Mortazavi, and J. A. Cherry. Precipitation and extreme temperatures drive tidal wetland plant productivity across the northern Gulf of Mexico.
- In Prep. Sharbaugh<sup>\*</sup>, M.C., J.M. Dybiec<sup>^</sup>, J.A. Cherry, and **S. Rinehart**. Relationships between crab burrows and marsh sediment conditions diminish with age along a salt marsh restoration chronosequence.

## **DISSERTATION**

- 2018 **Rinehart, S.** Predator-prey dynamics in southern California salt marshes. PhD Thesis. San Diego State University and University of California, Davis.  
(hdl.handle.net/20.500.11929/sdsu:21723)

## **EXTERNAL FUNDING** (Total: \$410,300)

- 2020 **Zuckerman STEM Leadership Program**, Postdoctoral Research Fellowship Extension (declined), \$52,000, Slow food: Impacts of snail induced defenses to predation on desert ecosystem functioning.

- 2018-2020 **Zuckerman STEM Leadership Program**, Postdoctoral Research Fellowship, \$104,000, Slow food: Impacts of snail induced defenses to predation on desert ecosystem functioning.
- 2018-2020 **The Lady Davis Fellowship Trust**, Postdoctoral Research Fellowship, 145,200 NIS (~\$44,150), Impacts of snail induced defenses to predation on desert ecosystem functioning.
- 2018 **Minerva Center for Movement Ecology**, Postdoctoral Research Fellowship, 7,500 Euro (~\$9,100), Movement ecology of predator-prey interactions regulates nutrient dynamics across multiple spatial scales.
- 2015-2018 **National Science Foundation**, Graduate Research Fellowship (NSF GRFP), \$142,000, The role of intraspecific indirect genetic effects on the magnitude, and mechanisms underlying, salt marsh trophic cascades.
- 2017 **Research Council of Norway**, Graduate Research Opportunities Worldwide (GROW), 112,000 NOK (~\$13,500), Assessing the stoichiometry of prey morphological defenses.
- 2016-2017 **National Science Foundation**, Graduate Research Opportunities Worldwide (GROW), \$5,000, Assessing the stoichiometry of prey morphological defenses.
- 2016 **California State University Council on Ocean Affairs, Science and Technology** (CSU COAST), Graduate Student Conference Travel Award, \$750, For attendance of the 2016 Gordon Research Conference on Predator-Prey Interactions.
- 2016 **Garden Club of America**, Ecological Restoration Fellowship, \$8,000, It's a bug eat bug world: Impacts of insect predators on salt marsh restoration in southern California.
- 2016 **California State University Council on Ocean Affairs, Science and Technology** (CSU COAST), Graduate Student Research Grant, \$3,000, It's a bug eat bug world: Impacts of insect predators on salt marsh restoration in southern California.
- 2014 **Garden Club of America**, Award in Coastal Wetland Studies, \$5,000, Impacts of insect predators on salt marsh community dynamics.
- 2014 **Society of Wetland Scientists**, Graduate Student Research Grant, \$1,000, Impacts of insect predators on salt marsh community dynamics.
- 2013 **California Sea Grant**, Graduate Student Traineeship, \$21,300, Scale Insects: Emergent Threats to Salt Marsh Restoration.

2013 **National Science Foundation Rhode Island EPSCOR**, Undergraduate Research Stipend, \$1,500, Community dynamics of bloom-forming macroalgal species in Narragansett Bay, RI.

**INTERNAL FUNDING** (Total: \$26,834)

2022 **University of Alabama**, College Academy of Research, Scholarship, and Creative Activity fund, \$4,167, Evaluating the effects of burrowing crab communities on the recovery of ecosystem functions in restored coastal wetlands.

2018 **San Diego State University (SDSU)**, Student Success Fee Student Travel Grant, \$1,000, For attendance of the 2018 Gordon Research Conference on Predator-Prey Interactions.

2017 **SDSU Joint Doctoral Program**, Student Research Grant, \$1,375, Predator-prey interactions in southern California salt marshes.

2016 **SDSU Joint Doctoral Program**, Student Research Grant, \$2,000, Predator-prey interactions in southern California salt marshes.

2015 **University of California (UC) Davis Graduate Group in Ecology**, Jastro Shields Award, \$2,300.

2015 **SDSU Joint Doctoral Program**, Student Research Grant, \$2,000, Predator-prey interactions in southern California salt marshes.

2014 **UC Davis College of Agricultural and Environmental Sciences**, Career Discovery Fellowship, \$7,000.

2014 **UC Davis Graduate Group in Ecology**, Jastro Shields Award, \$1,592.

2014 **SDSU Joint Doctoral Program**, Student Research Grant, \$1,500, Predator-prey interactions in southern California salt marshes.

2013 **SDSU Joint Doctoral Program**, Student Research Grant, \$1,000, Predator-prey interactions in southern California salt marshes.

2012 **University of Rhode Island (URI) Office of Undergraduate Research**, Undergraduate Research Initiative Grant, \$1,000, Overwintering strategies of bloom-forming macroalgal species in Narragansett Bay, RI.

2012 **URI College of the Environment and Life Sciences**, Stanley Cobb Endowment for Undergraduate Research, \$400, Overwintering strategies of bloom-forming macroalgal species in Narragansett Bay, RI.

- 2011 **URI College of the Environment and Life Sciences**, Stanley Cobb Endowment for Undergraduate Research, \$500, Fragmentation and overwintering life stages of *Ulva* spp. in Narragansett Bay, RI.
- 2010 **URI Office of Undergraduate Research**, Undergraduate Research Initiative Grant, \$1,000, Fragmentation and overwintering life stages of *Ulva* spp. in Narragansett Bay, RI.

### **PENDING FUNDING**

- 2023 **Mississippi-Alabama Sea Grant Consortium**, 2024-2025 Research Program Funding, \$159,256, Assessing the effects of prescribed burns on ecosystem services to support healthy coastal marsh ecosystems (Co-PI).

### **HONORABLE MENTIONS**

- 2019 **European Research Council**, Marie Skłodowska-Curie Actions, Seal of Excellence, PredNutrients: Linking predator-prey interactions to ecosystem-level processes. (Score = 91.4%).
- 2015 **Fulbright U.S. Student Program**, University of Sussex Partnership Award, Alternate, What you can't see can hurt you: indirect genetic effects, invasive hybrids, and hoppers.
- 2013 **National Science Foundation**, Graduate Research Fellowship, Honorable Mention, Using genetic approaches to assess the life history strategies of isomorphic, bloom-forming macroalgal species.

### **TEACHING EXPERIENCE**

- 2022 **Facilitator**, Mentoring Strategies for Faculty Advising NSF REU Students, University of Alabama
- 2022 **Guest Lecturer**, Human Dimensions of Natural Resource Management, University of North Carolina Wilmington
- 2021 **Guest Lecturer**, Wetland Ecology and Management, University of Alabama
- 2017 **Guest Lecturer**, Environmental Signaling, San Diego State University
- 2015-2017 **Facilitator**, Student Grant Writing Group, San Diego State University
- 2016 **Guest Lecturer**, Ecology and the Environment, San Diego State University
- 2015 **Instructor**, Ecology and the Environment, San Diego State University

2015 **Teaching Assistant**, Entering the Professional World, University of California Davis  
 2014-2015 **Teaching Assistant**, Career Discovery Seminar, University of California Davis  
 2014 **Instructor**, Positioning Yourself for Success at Davis and Beyond, University of California Davis  
 2012-2013 **Teaching Assistant**, Introduction to Biology, University of Rhode Island  
 2010-2013 **Instructor**, Planning for Academic Success, University of Rhode Island

### **INVITED PRESENTATIONS**

2023 **Drexel University**, Pennsylvania, USA  
 2023 **University of Louisiana Lafayette**, Louisiana, USA  
 2022 **Lewis and Clark College**, Oregon, USA  
 2022 **University of Maryland Eastern Shore**, Maryland, USA  
 2022 **University of Alabama**, Alabama, USA  
 2022 **Dauphin Island Sea Lab**, Alabama, USA  
 2022 **University of North Carolina Wilmington**, North Carolina, USA  
 2020 **University of South Carolina**, South Carolina, USA  
 2019 **Ben-Gurion University of the Negev**, Sede Boker, Israel  
 2019 **University of Delaware**, Delaware, USA  
 2018 **The Hebrew University of Jerusalem**, Jerusalem, Israel  
 2018 **San Diego State University**, California, USA  
 2018 **Coastal and Marine Institute Laboratory**, California, USA  
 2018 **Gordon Research Conference on Predator-Prey Interactions**, California, USA  
 2017 **Marine Ecology and Biology Student Association**, California, USA  
 2016 **California State University COAST-WPI Reception**, California, USA  
 2016 **University of California Davis**, California, USA  
 2015 **Marine Ecology and Biology Student Association**, California, USA

### **CONFERENCE PRECEEDINGS** \*Student mentee

2023 Rutter, H.A.\*, J.M. Dybiec\*, **S.A. Rinehart**, J. A. Cherry. Effect of controlled burns on restored tidal wetlands along the Mississippi Gulf Coast. University of Alabama Undergraduate Research and Creative Activity (URCA) Conference.



- 2023 Sharbaugh, M.\* , J.M. Dybiec\* , **S.A. Rinehart**, B. Mortazavi, and J. A. Cherry. Developmental Trajectories of Sedimentation in Restored and Created Coastal Wetlands along the Mississippi-Alabama Gulf Coast. Poster. University of Alabama Undergraduate Research and Creative Activity (URCA) Conference.
- 2023 Wiggins, A.\* , J.M. Dybiec\* , **S.A. Rinehart**, J. A. Cherry. Annual climate variability effects on plant biomass in tidal wetlands. University of Alabama Undergraduate Research and Creative Activity (URCA) Conference.
- 2023 Sharbaugh, M.\* , J.M. Dybiec\* , **S.A. Rinehart**, B. Mortazavi, and J. A. Cherry. Developmental Trajectories of Sedimentation in Restored and Created Coastal Wetlands along the Mississippi-Alabama Gulf Coast. Poster. Bays and Bayous Symposium. [Best Student Poster- 2<sup>nd</sup> Place].
- 2023 **Rinehart, S.**, J.M. Dybiec\* , T. Ledford\* , E. Fromenthal\* , B. Mortazavi, and J.A. Cherry. Recovery of planktonic invertebrate communities in restored and created tidal marshes along the Mississippi-Alabama Gulf coast. Poster. Bays and Bayous Symposium.
- 2023 Mortazavi, B., T. Ledford\* , C. Tatariw, J.M. Dybiec\* , **S.A. Rinehart**, E. Formenthal\* , and J.A. Cherry. Recovery of nitrogen removal capacity in restored tidal marshes of the Mississippi-Alabama Gulf Coast. Talk. Bays and Bayous Symposium.
- 2023 Cherry, J.A., J.M. Dybiec\* , **S. Rinehart**, T. Ledford\* , C. Tatariw, E. Fromenthal\* , and B. Mortazavi. Assessing Recovery of Ecosystem Structure and Function in Restored Tidal Marshes of the MS-AL Gulf Coast: A Closer Look at Carbon Storage. Talk. Bays and Bayous Symposium.
- 2023 Dybiec\* , J.M., T. Ledford\* , **S. Rinehart**, C. Tatariw, E. Fromenthal\* , B. Mortazavi, and J.A. Cherry. Developing and testing a metric-based indicator of functional recovery for tidal marshes. Talk. Bays and Bayous Symposium.
- 2022 **S. Rinehart**, J.D. Peabody, J.M. Dybiec\* , P. Richardson\* , J. Walker, Z. Hohman, and J.A. Cherry. Ethics in the field: Evaluating the environmental impacts of field research. Talk. Alabama Water Resources Conference.
- 2022 Dybiec\* , J.M., **S. Rinehart**, and J. A. Cherry. Comparing sediment dynamics between a natural and constructed tidal marsh of the Gulf of Mexico. Talk. Alabama Water Resources Conference.

- 2022 Cherry, J.A., J.M. Dybiec\*, **S. Rinehart**, T. Ledford\*, C. Tatariw, E. Fromenthal\*, and B. Mortazavi. Assessing recovery of soil organic matter and carbon in restored marshes of the MS-AL Gulf Coast. Talk. Joint Aquatic Sciences Meeting.
- 2022 Dybiec\*, J.M., T. Ledford\*, **S. Rinehart**, C. Tatariw, E. Fromenthal\*, B. Mortazavi, and J.A. Cherry. Development of a preliminary metric-based indicator of functional recovery for tidal marshes. Talk. Joint Aquatic Sciences Meeting.
- 2022 Fromenthal\*, E., J.M. Dybiec\*, **S. Rinehart**, and J.A. Cherry. Comparing the seasonal dynamics of ecologically important insect functional groups in created and reference wetlands. Talk. Joint Aquatic Sciences Meeting.
- 2022 Mortazavi, B., T. Ledford\*, C. Tatariw, J.M. Dybiec\*, **S. Rinehart**, E. Fromenthal\*, and J.A. Cherry. Assessing recovery of N removal capacity in restored tidal marshes of the Mississippi-Alabama Gulf coast. Talk. Joint Aquatic Sciences Meeting.
- 2022 **Rinehart, S.**, J.M. Dybiec\*, A. Hammill\*, C. Tatariw, T. Ledford\*, E. Fromenthal\*, B. Mortazavi, and J.A. Cherry. Burrowing crabs affect the ecosystem functions of created and natural tidal wetlands in the northern Gulf of Mexico. Talk. Joint Aquatic Sciences Meeting.
- 2022 Tatariw, C., T. Ledford\*, **S. Rinehart**, J.M. Dybiec\*, E. Fromenthal\*, J.A. Cherry, and B. Mortazavi. How Does Salt Marsh Plant Species Affect Temporal Patterns in Nitrogen Removal? Talk. Joint Aquatic Sciences Meeting.
- 2022 Dybiec\*, J.M., T. Ledford\*, **S. Rinehart**, C. Tatariw, E. Fromenthal\*, B. Mortazavi, and J.A. Cherry. Development of a preliminary metric-based indicator of functional recovery for tidal marshes. Talk. Mississippi Water Resources Conference.
- 2021 Dybiec\*, J.M., **S. Rinehart**, E. Fromenthal\*, and J. A. Cherry. Comparing short-term sediment flux dynamics between a natural and constructed tidal marsh of the northern Gulf of Mexico. Poster. Coastal and Estuarine Research Federation Conference.
- 2021 Fromenthal\*, E., J.M. Dybiec\*, **S. Rinehart**, and J.A. Cherry. Comparing the seasonal dynamics of ecologically important insect functional groups in created and reference wetlands. Poster. Coastal and Estuarine Research Federation Conference.
- 2021 **Rinehart, S.**, J. Dybiec\*, E. Fromenthal\*, T. Ledford\*, B. Mortazavi, J. A. Cherry. Burrowing crabs facilitate the recovery of sediment dynamics in restored wetlands. Poster. Coastal and Estuarine Research Federation Conference.

- 2021 **Rinehart, S.,** and D. Hawlena. Consumer effects on biological soil crust function: A novel framework. Poster. Ecological Society of America Meeting.
- 2020 **Rinehart, S.,** N. Shamir Weller\*, T. Avin-Wittenberg, and D. Hawlena. Mucus from risk-exposed snails increases carbon cycling in desert biocrusts. Poster. Gordon Research Conference on Predator-Prey Interactions.
- 2019 **Rinehart, S.,** and D. Hawlena. Effects of predation-risk and predator hunting mode on prey stoichiometry: a meta-analysis. Talk. Ecological Society of America Meeting.
- 2019 Belen-Gonzalez\*, M., **S. Rinehart,** and J.D. Long. Effects of a non-native swimming crab on the native California horn snails. Talk. San Diego State University Student Research Symposium.
- 2018 Greenberg-Pines\*, G., W. White\*, R. DeSantiago\*, J. Walker, **S. Rinehart,** and J.D. Long. Competition between two dominant southern California salt marsh plants. Talk. San Diego State University Student Research Symposium.
- 2018 **Rinehart, S.,** E. Sperfeld, and D. O. Hessen. Resource nutritional quality impacts the magnitude of inducible morphological defenses in two *Daphnia* species. Talk. San Diego State University Student Research Symposium.
- 2018 White\*. W., G. Greenberg-Pines\*, R. DeSantiago\*, J. Walker, **S. Rinehart,** and J.D. Long. Plant community composition determines sediment biogeochemistry in a southern California salt marsh. Talk. San Diego State University Student Research Symposium.
- 2018 **Rinehart, S.,** and J.D. Long. Conspecific density, not alternative resources, reduce omnivore prey consumption. Poster. Gordon Research Conference on Predator-Prey Interactions.
- 2017 **Rinehart, S.,** C. Knight\*, and J.D. Long. Impacts of a range-expanding predator on the behavior and distribution of naïve prey. Talk. Western Society of Naturalists Meeting.
- 2017 **Rinehart, S.,** and J.D. Long. Habitat-performance relationships in a specialist predator. Talk. Ecological Society of America Meeting.
- 2016 **Rinehart, S.,** and J.D. Long. Linking omnivore patch selection to diet-mediated performance. Talk. San Diego State University Student Research Symposium.
- 2016 **Rinehart, S.,** and J.D. Long. Ladybeetle predators enhance salt marsh growth via non-consumptive and total effects. Poster. Gordon Research Conference on Predator-Prey Interactions.

- 2015 **Rinehart, S.**, and J.D. Long. Linking omnivore patch selection to diet-mediated performance. Talk. Western Society of Naturalists Meeting.
- 2015 **Rinehart, S.**, and J. D. Long. Predators going green: Flowers reduce the consumptive effects of omnivorous beetles responsible for a trophic cascade. Talk. University of California, Davis Ecology Graduate Student Research Symposium.
- 2014 **Rinehart, S.**, and J. D. Long. Predators going green: Flowers reduce the consumptive effects of omnivorous beetles responsible for a trophic cascade. Talk. Western Society of Naturalists Meeting.
- 2014 Meyerson, L.A., C. Lambertini, M. Lucanova, **S. Rinehart**, H. Brix, J. Suda, P. Pysek, and J.T. Cronin. Implications for invasion resulting from phylogeographically based variation in nuclear genome size and plant defenses in *Phragmites*. Talk. NEOBIOTA Meeting.
- 2013 Long, J.D., **S. Rinehart**, and L.P. Miller. Flip it and reverse it: Intertidal elevation switches the impacts of herbivores on *Spartina* growth. Talk. Western Society of Naturalist Meeting.
- 2013 Thornber, C., **S. Rinehart**, M. Guidone, and J. Swanson. Ecological dynamics of *Ulva* macroalgal blooms. Talk. Phycological Society of America Meeting.
- 2013 **Rinehart, S.**, M. Guidone, and C. Thornber. Overwintering strategies of *Ulva* spp. in Narragansett Bay, RI. Talk. Western Society of Naturalists Meeting.
- 2013 **Rinehart, S.**, M. Guidone, and C. Thornber. Overwintering strategies of *Ulva* spp. in Narragansett Bay, RI. Talk. North Eastern Algal Symposium.
- 2012 Guidone, M., **S. Rinehart**, and C. Thornber. Impacts of competition and herbivory on the growth of two bloom-forming *Ulva* species in Narragansett Bay, RI. Talk. Phycological Society of America Meeting.
- 2012 Guidone, M., **S. Rinehart**, and C. Thornber. Competition between two morphologically similar bloom-forming *Ulva* species in Narragansett Bay, RI. Talk. Benthic Ecology Meeting.
- 2012 Ziegler\*, A., **S. Rinehart**, M. Guidone, T. Schollmeier\*, and C. Thornber. Bloom-forming *Ulva* species overwinter primarily as fragments in Narragansett Bay, RI. Poster. Northeastern Algal Symposium.
- 2011 **Rinehart, S.**, M. Guidone and C. Thornber. Overwintering strategies of *Ulva* species in Narragansett Bay, RI. Poster. Northeastern Algal Symposium.

- 2011 **Rinehart, S.,** M. Guidone and C. Thornber. Competition between two *Ulva* species in Narragansett Bay, RI. Poster. Rhode Island EPSCoR Conference.
- 2010 **Rinehart, S.,** S. Kloeblen and J. Opton-Himmel. Monitoring the hard clam, *Mercenaria mercenaria*, population in Ninigret pond. Poster. University of Rhode Island Coastal and Environmental Fellows Conference.

**OUTREACH AND PROFESSIONAL DEVELOPMENT FUNDING** (Total: \$18,400)

- 2017 **San Diego State University Ecology Program Area**, Seminar Speaker Funding, \$200.
- 2016 **San Diego State University College of Sciences**, Seminar Series Funding, \$3,500.
- 2015 **California State University Council on Ocean Affairs, Science and Technology** (CSU COAST), Seminar Series Funding, \$700.
- 2015 **San Diego State University Associated Student's Union Board**, Marine Science Day Funding, \$3,000.
- 2015 **San Diego State University Instructionally Related Activities Fund**, Seminar Speaker Funding, \$1,000.
- 2014 **San Diego State University Associated Student's Union Board**, Coastal Marine Institute Open House Funding, \$3,000.
- 2014 **San Diego State University Instructionally Related Activities Fund**, Seminar Speaker Funding, \$1,000.
- 2014 **San Diego State University Student Success Fee Fund**, Marine Ecology and Biology Seminar Series, \$6,000.

**INTERNAL ACTIVITIES AND SERVICE**

- 2022-pres. **Co-Coordinator**, University of Alabama Department of Biological Sciences Super Bio--Supporting Everyone's Research in Biology
- 2021-2022 **Member**, Capstone Alliance for LGBT+ University Faculty & Staff
- 2021-2022 **Mentor**, UA Celebrate LGBT+ Mentorship Program
- 2021-2022 **Staff Representative**, Biological Sciences Department DEI Committee
- 2022 **Mentorship Workshop Facilitator**, Biological Sciences Department
- 2018-2020 **Founder**, Hebrew University 'R' Users Group
- 2016-2018 **Chair**, San Diego State University Biology Graduate Student Association
- 2014-2018 **Admissions Reviewer**, University of California Davis Graduate Group in Ecology

- 2016 **Seminar Coordinator**, Marine Ecology and Biology Student Association
- 2016 **Outreach Coordinator**, Marine Ecology and Biology Student Association
- 2014-2016 **Chair**, Marine Ecology and Biology Student Association
- 2015 **Volunteer**, University of California Davis Ecology Graduate Group Student Symposium
- 2014-2015 **Coordinator**, San Diego State University Joint Doctoral Program in Ecology New Student Orientation and Retreat
- 2014-2015 **Graduate Student Association Representative**, University of California Davis Graduate Group in Ecology
- 2013-2014 **Open House Coordinator**, Marine Ecology and Biology Student Association
- 2013 **Student Representative**, San Diego State University Biology Department Faculty Search
- 2010-2013 **Volunteer**, University of Rhode Island's Coastal and Environmental Fellows Research Symposium

#### **EXTERNAL ACTIVITIES AND SERVICE**

- 2017-pres. **Volunteer Scientist**, Skype a Scientist
- 2019-2022 **Program Coordinator**, Ecological Society of America Early Career Mentoring Program
- 2022 **Mentor**, Joint Aquatic Sciences Meeting Mentorship Program
- 2020 **Conference Mentor**, Ecological Society of America's SEEDS Program
- 2018 **Applicant Reviewer**, Ecological Society of America Early Career Mentoring Program
- 2018 **Discussion Leader**, Gordon Research Conference on Predator-Prey Interactions
- 2015-2018 **Volunteer Scientist**, Reuban H. Fleet Science Center
- 2014-2018 **Volunteer Scientist**, Ocean Discovery Institute
- 2017 **Volunteer**, March for Science- Oslo
- 2016 **Volunteer Instructor**, High Tech Elementary School- Point Loma
- 2015 **Volunteer Instructor**, Alvera Oaks Elementary School
- 2014 **Volunteer**, San Diego Natural History Museum- Botany Department

#### **MANUSCRIPT REVIEWER**

Diversity (1), Ecology (1), Ecological Entomology (2), Ecological Restoration (1), Ecosphere (3), Frontiers in Ecology and Evolution (2), Functional Ecology (3), Geophysical Research Letters (1), Oecologia (1), PLOS One (2), The American Naturalist (1)

**GRADUATE STUDENTS MENTORED** (Name, degree, current position)

**University of Alabama** \*Committee member

2023-pres. Amanda Pasierbowicz\*, MS Student  
2021-pres. Jacob Dybiec PhD Candidate  
2022 Christopher Pettengill\*, MS Student  
2021-2022 Emily Fromenthal\* MS, Biologist at Wetland and Aquatic Research Center

**Hebrew University of Jerusalem**

2018-pres. Netta Shamir-Weller, PhD Candidate  
2018-2022 Yaya Tang PhD, Data Scientist at Dataloop AI

**UNDERGRADUATE STUDENTS MENTORED** (Name, current position if known)

**University of Alabama**

2023-pres. Emily Reiner, Research Assistant at University of Alabama  
2023-pres. Jacob Fox, Research Assistant at University of Alabama  
2022-pres. Abbey Wiggins, Randall Research Scholar at University of Alabama  
2022-pres. Hayden Rutter, Research Assistant at University of Alabama  
2022-pres. William Holland, Randall Research Scholar at University of Alabama  
2021-pres. Morgan Sharbaugh, Research Assistant at University of Alabama  
2022 Amanda Pasierbowicz, MS student at University of Alabama  
2021-2022 August Hammill, Assistant Seasonal Entomologist at East Middlesex Mosquito Control  
2022 Abbey Bold, Research Assistant at University of Alabama  
2021-2022 Spencer Bartle  
2021 Sarah Nelson, Animal Husbandry Intern at The Maritime Aquarium

**Hebrew University of Jerusalem**

2019-pres. Coral Ben Lulu, Research Technician at Hebrew University  
2018-2020 Eviatar Yahini  
2018-2020 Shani Kandel, MS Student at Hebrew University  
2018-2020 Lavie Scheler

2018-2020 Daniel Shurki  
2018-2019 Irit Mogilevsky

### **San Diego State University**

2015-2022 Gabriel Greenberg-Pines, PhD Student at the University of British Columbia  
2017-2020 Melissa Belen, New Jersey Watershed Ambassador with AmeriCorps  
2014-2018 Grant Cooper  
2017-2018 Ricardo DeSantiago, Ph.D. Candidate at San Diego State University and University of California Davis  
2016-2018 Wendi White, MS, Lab Manager at the University of Massachusetts, Boston  
2014-2017 Nina Barr, PhD Student at the University of Southern California  
2017 Rachel Chatfield, Medical Student at the University of Queensland  
2015-2016 Jessica Grondin, Laboratory Manager at BioLabs LA  
2016 Francesca Ventola, Clinical Research Associate at Leica Biosystems  
2015-2016 Rainee Wright  
2015 Holly Callahan, Assistant Civil Engineer at Avila and Associates Consulting

### **MENTORED STUDENT FUNDING**

2023 Pasierbowicz, A. University of Alabama, Arts & Sciences Support for Undergraduate Research (ASSURE), \$1000. Effects of nutrient addition and snail grazers on biofilms in Alabama's coastal wetlands.  
2022 Bartle, S. University of Alabama, Arts & Sciences Support for Undergraduate Research (ASSURE), \$974. Environmental drivers of structural and functional recovery in restored wetlands of the Gulf of Mexico coast.

### **HONORS AND AWARDS**

2017 **Early Career Mentoring Program Mentee**, Ecological Society of America  
2014 **Hillsborough Garden Club Scholar**, Garden Club of America  
2013 **Alpha Research Award**, University of Rhode Island Department of Biological Sciences  
2013 **Alpha Service Award**, University of Rhode Island Department of Biological Sciences  
2013 **Academic Excellence Award**, University of Rhode Island Department of Biological Sciences



- 2013 **President's Award**, Northeastern Algal Society
- 2013 **R.D. Wood Memorial Award**, University of Rhode Island Department of Biological Sciences
- 2012 **Harold Riemenschneider Award in Biology**, University of Rhode Island Department of Biological Sciences
- 2010 **Harold Riemenschneider Award in Biology**, University of Rhode Island Department of Biological Sciences
- 2010 **Browning Prize in Environmental Plant Biology**, University of Rhode Island Department of Biological Sciences

### **ATTENDED WORKSHOPS**

- 2019 **A Science Communication Workshop**, Alan Alda Center for Communicating Science
- 2018 **Basics of Data Analysis in R**, Hebrew University R-Users Group
- 2017 **Programming in R for Reproducible Scientific Analysis**, UiO Software Carpentry
- 2015 **Beginners R Workshop**, San Diego State University R-Users Group

### **MEMBERSHIPS**

Coastal and Estuarine Research Federation, Ecological Society of America, ESA Early Career Ecologists Section, Nitrogen Fixation across Aquascapes RCN

### **MEDIA COVERAGE**

- 2016 **Marine Science Day offers peek into SDSU research**. The San Diego Union-Tribune.
- 2015 **The making of a scientist**. Rhode Island NSF EPSCOR.
- 2011 **URI student examines competition among seaweeds responsible for algae blooms**. URI Today.

### **PROFESSIONAL REFERENCES**

- Julia Cherry Director and Professor, New College and Department of Biological Sciences  
University of Alabama  
(205) 348- 8416; julia.cherry@ua.edu
- Dror Hawlena Associate Professor, Department of Ecology, Evolution, and Behavior  
The Hebrew University of Jerusalem

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