

# Rachel N. Arney

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## EDUCATION

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- In progress* Ph.D., Integrative Conservation & Geography, University of Georgia  
*Dissertation:* The Politics of Environmental Knowledge and Conservation in the U.S.-Mexico Borderlands: A Critical Examination of Science and the Border Wall System  
*Advisor:* Dr. Jennifer Rice
- 2014 M.S., Biology, University of Texas–Brownsville  
*Thesis:* Recruitment Patterns of Juvenile Fish at an Artificial Reef in the Gulf of Mexico  
*Advisor:* Dr. Richard Kline
- 2010 B.A., Ecology and Evolutionary Biology, University of Arizona

## PUBLICATIONS

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### (a) Journal Articles

- Under review* **Arney, R.N.** Securing the Border, Securing Nature: Homeland Security as an Emerging Environmental Actor, *Annals of the Association of American Geographers*.
- In press* Harris, M. & **Arney, R.N.** I am Hippolyta, Discoverer: Genres of Being Human Beyond the Prevailing Order of Man, *GeoHumanities*.
- 2022 **Arney, R.N.**, Henderson, M.B., DeLoach, H., Lichtenstein, G., & German, L.A. Connecting across difference in environmental governance: Beyond rights, recognition and participation, *Environment and Planning E: Nature and Space*, 6(2), 1164-1190.
- 2021 **Arney, R.N.**, Shepherd, A.K., Alexander, H.D., & Rahman, A.F. Soil carbon and nitrogen storage in natural and prop-scarred *Thalassia testudinum* seagrass meadows, *Estuaries and Coasts*, 44(1), 178-188.
- 2017 **Arney, R.N.**, Froehlich, C.Y.M. & Kline, R.J. Recruitment Patterns of Juvenile Fish at an Artificial Reef Area in the Gulf of Mexico, *Marine and Coastal Fisheries*, 9(1), 79-92.

### (b) Other Publications

- 2020 **Arney, R.N.**, Ferrari, O.M., & Del Toro-Orozco, W. *Rules and Processes Governing Culturally Important Forest Products on National Forest Lands*. Policy Brief. University of Georgia Center for Integrative Conservation Research and Eastern Band of Cherokee Indians, Athens, GA.
- 2019 **Arney, R.N.**, Fotinos, T.A., Barnhill, H., Johnson, E., & Schmidt, C. *Southeast Regional Protocol Framework for the Inventory and Monitoring of Forested Habitats*. Technical

Report. US Fish and Wildlife Service Southeast Region, Atlanta, GA.

## **PRESENTATIONS**

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- 2023 **Arney, R.N.** Tracing the political life of environmental knowledge in the U.S.-Mexico borderlands. Paper Presentation, 6<sup>th</sup> Annual International Conference of Border Studies. November 10.
- Arney, R.N.** Tracing the political life of environmental knowledge in the U.S.-Mexico borderlands. Paper Presentation, 119<sup>th</sup> Annual Meeting of the American Association of Geographers. March 23-26.
- Arney, R.N.** Tracing the political life of environmental knowledge in the U.S.-Mexico borderlands. Paper Presentation, Symposium on Integrative Conservation, Center for Integrative Conservation Research, University of Georgia. February 17.
- 2022 **Arney, R.N.** Tracing the political life of environmental knowledge in the U.S.-Mexico borderlands. Paper Presentation, 77<sup>th</sup> Annual Meeting of the Southeastern Division of the American Association of Geographers. November 20-21.
- Henderson, M.B., **Arney, R.N.**, Lichtenstein, G., DeLoach, H., & German, L.A. Beyond Rights, Recognition, and Participation: Rupturing Settler Colonial Approaches to Environmental Governance. Paper Presentation, 118<sup>th</sup> Annual Meeting of the American Association of Geographers. Presented Virtually. February 25-March 1.
- Henderson, M.B., **Arney, R.N.**, Lichtenstein, G., DeLoach, H., & German, L.A. Decolonizing Conservation and Environmental Governance: Theoretical Foundations for Situating Research and Practice Beyond Coloniality. Opening Remarks, 3<sup>rd</sup> Integrative Conservation Conference, Center for Integrative Conservation Research, University of Georgia. Presented Virtually. February 3-5.
- 2021 **Arney, R.N.** How Ecological Science Produces More than Knowledge: A Critical Physical Geography of the US-Mexico Border. Paper Presentation, 117<sup>th</sup> Annual Meeting of the American Association of Geographers. Presented Virtually. April 7-11.
- Arney, R.N.** How Ecological Science Produces More than Just Knowledge: A Critical Physical Geography of the US-Mexico Border. Short Paper Presentation, Symposium on Integrative Conservation, Center for Integrative Conservation Research, University of Georgia. Presented Virtually. February 3-5.
- 2020 **Arney, R.N.** How Ecological Science Produces More than Knowledge: A Critical Physical Geography of the US-Mexico Border. Poster Presentation, 116<sup>th</sup> Annual Meeting of the American Association of Geographers. Denver, CO. April 6-10. *Cancelled due to coronavirus.*
- Arney, R.N.** How Ecological Science Produces More than Knowledge: A Critical Physical Geography of the US-Mexico Border. Short Paper Presentation, 2<sup>nd</sup>

Integrative Conservation Conference, Center for Integrative Conservation Research, University of Georgia. Athens, GA. February 6-9.

- 2018 **Arney, R.N.**, Shepherd, A.K., Alexander, H.D., & Rahman, A.F. Impacts of prop-scar damage on carbon and nitrogen pools in *Thalassia testudinum* seagrass meadows. Poster Presentation, 103<sup>rd</sup> Annual Meeting of the Ecological Society of America. New Orleans, LA. August 5-10.
- 2014 **Arney, R.N.**, & Kline, R.J. Recruitment patterns of juvenile fish at an artificial reef in the Gulf of Mexico. Oral Presentation, Texas Bays and Estuaries Conference. Port Aransas, TX. April 23-24.
- Arney, R.N.**, & Kline, R.J. Recruitment of juvenile fish at an artificial reef in the Gulf of Mexico. Oral Presentation, 16<sup>th</sup> Annual UT Brownsville Research Symposium. Brownsville, TX. April 4.
- Arney, R.N.**, & Kline, R.J. Recruitment patterns of juvenile fish at an artificial reef in the Gulf of Mexico. Professional Women Speak, UT Brownsville. Brownsville, TX. March 29.
- Arney, R.N.**, & Kline, R.J. Quantifying recruitment of juvenile fish at an artificial reef in the Gulf of Mexico. Oral Presentation, 117<sup>th</sup> Annual Meeting of the Texas Academy of Sciences. Galveston, TX. March 7-9.
- Kline, R.J., Froehlich, C.Y.M., **Arney, R.N.**, & Bollinger, M.A., Characterization of reef fish use by patch configuration on a shallow, turbid culvert reef system. 1<sup>st</sup> Annual Texas Artificial Reef Consortium. Corpus Christi, TX. January 16-18.
- 2013 **Arney, R.N.**, & Kline, R.J. Assessing the recruitment of juvenile fish through the use of standard monitoring units (SMURFs) at the South Padre Island culvert reef. Poster Presentation, Gulf and Caribbean Fisheries Institute Conference. Corpus Christi, TX. November 4-8.
- Arney, R.N.**, & Kline, R.J. Recruitment of juvenile fish at an artificial reef in the Gulf of Mexico. Poster Presentation, The American Shore and Beach Preservation Conference. South Padre Island, TX. October 22-25.

## **HONORS AND AWARDS**

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- 2023 Summer Research Grant (\$1,650), University of Georgia Graduate School
- 2023 Southeastern Division of the American Association of Geographers Graduate Student Mini-Research Grant (\$500)
- 2022 American Association of Geographers Student Travel Grant (\$500)
- 2022 George Hugh Boyd Memorial Scholarship (\$2,000), University of Georgia Graduate School
- 2022 Summer Research Grant (\$1,337), University of Georgia Graduate School

- 2022 Field Study Award (\$750), Cultural and Political Ecology Specialty Group of the American Association of Geographers
- 2022 AGILE Scientist Award (\$250), University of Georgia Integrative Conservation Program
- 2022 Conference Travel Funding (\$650), University of Georgia Graduate School
- 2021 Conference Travel Funding (\$650), University of Georgia Department of Geography
- 2021 Graduate Student Research Award (\$250), Graduate Student Affinity Group of the American Association of Geographers
- 2021 Invited Participant, Pre-AAG Workshop on Critical Physical Geography
- 2020 Conference Travel Funding (\$200), University of Georgia Department of Geography
- 2014 First Place Graduate Oral Presentation, 16<sup>th</sup> Annual UT Brownsville Research Symposium
- 2014 First Place, Professional Women Speak Student Scholarship, UT Brownsville
- 2014 Second Place Graduate Oral Presentation, Texas Bays and Estuaries Conference, University of Texas Marine Science Institute
- 2013 – 2014 College of Science, Math, and Technology Talent Scholarship, UT Brownsville
- 2013 – 2014 Artificial Reef Research Scholarship, Texas Parks and Wildlife Department
- 2009 Summer Semester Travel Award, Duke University Marine Laboratory
- 2008 Study Abroad Travel Scholarship, Guatemala
- 2006 – 2010 President’s Award for Educational Excellence, University of Arizona

**RESEARCH AND PROFESSIONAL EXPERIENCE**

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- 2023 Graduate Teaching Assistant  
University of Georgia, Department of Geography  
Athens, GA
- 2022 – 2023 Graduate Research Assistant  
University of Georgia, Center for Integrative Conservation Research  
Athens, GA
- 2020 – 2022 Graduate Teaching Assistant  
University of Georgia, Department of Geography  
Athens, GA
- 2019 – 2020 Graduate Research Assistant  
University of Georgia, Center for Integrative Conservation Research  
Athens, GA

- 2019 Desert Tortoise Field Crew Supervisor  
Great Basin Institute  
Las Vegas, NV
- 2017 – 2019 Research Associate I  
Mississippi State University, Department of Forestry / US Fish and Wildlife Service  
Starkville, MS
- 2016 Biological Science Technician GS-0404-04  
National Park Service, Padre Island National Seashore  
Corpus Christi, TX
- 2015 Sea Turtle Field Director / Biologist  
Geographic Consulting, LLC / Sandy Point National Wildlife Refuge  
St. Croix, US Virgin Islands
- 2013 – 2014 Graduate Research Assistant  
University of Texas–Brownsville, Department of Biology  
Brownsville, TX
- 2012 – 2013 Graduate Teaching Assistant  
University of Texas–Brownsville, Department of Biology  
Brownsville, TX
- 2012 Sea Turtle Research Assistant  
Ostional National Wildlife Refuge  
Guanacaste, Costa Rica
- 2011 Sea Turtle Patrol Intern  
Laguna Atascosa National Wildlife Refuge  
South Padre Island, TX

## **TEACHING EXPERIENCE**

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### University of Georgia

- 2023 GEOG 1125 Resources, Society, and Environment (as TA)
- 2022 GEOG1101 Introduction to Human Geography (as TA)
- 2020 – 2021 GEOG1125/2250H Resources, Society and Environment (as Instructor and TA)

### University of Texas–Brownsville

- 2012 – 2013 BIOL1108 Introduction to Biological Sciences Laboratory (as Instructor)

### Guest Lectures

- 2018 WFA3133 Wetland and Aquatic Ecosystems, Mississippi State University
- 2017 FO1001 Invasive Species and Natural Resources, Mississippi State University
- 2017 WFA3133 Wetland and Aquatic Ecosystems, Mississippi State University

## **SERVICE ACTIVITIES AND VOLUNTEER EXPERIENCE**

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### *Departmental and University Service*

- 2022 Workshop Committee, Integrative Conservation Conference, University of Georgia
- 2020 – 2021 Graduate Student Liaison, Organized ICON Network and Cooperative (OINC), University of Georgia
- 2020 – 2021 Planning Committee Member, 2021 Symposium for Integrative Conservation
- 2020 Graduate Student Representative, Search Committee for Faculty Director, Center for Integrative Conservation Research,
- 2020 Social Media Coordinator, 2020 Gender, the Body and Fieldwork Across Disciplines Symposium, University of Georgia
- 2019 – 2020 Secretary, Organized ICON Network and Cooperative (OINC), University of Georgia
- 2018 Judge for Summer Undergraduate Research Symposium, Mississippi State University
- 2018 Judge for 16<sup>th</sup> Annual Graduate Research Symposium, Mississippi State University
- 2017 Team Mentor for ‘Day One’ Freshmen Community Service Course, Mississippi State University

### *Service to the Discipline*

- 2022 – Committee Chair, AAG Graduate Student Affinity Group Summer Workshop Series
- 2021 – Awards Committee, AAG Graduate Student Affinity Group
- 2020 Session Organizer (w/ Akanksha Sharma), “Transforming Realities: Fieldwork in Unaccustomed/ Unacknowledged Bodies”, Gender, the Body and Fieldwork Across Disciplines Symposium, University of Georgia, Athens, GA
- Presider/Moderator/Reviewer, 2020 Integrative Conservation Conference, University of Georgia, Athens, GA
- 2018 Presider and Judge for Graduate Paper Competition, Ecological Society of America Conference, New Orleans, LA

### *Community Service and Outreach*

- 2022 Madrean Archipelago Wildlife Center, Tucson, AZ
- 2022 Team Libertad, Atlanta, GA
- 2020 Athens Mutual Aid Network, Athens, GA
- 2020 Dignidad Inmigrante, Athens, GA
- 2018 Indivisible Golden Triangle, Starkville, MS
- 2017 – 2018 MSU/Starkville Community Band, Starkville, MS

2017 Oktibbeha County Humane Society, Starkville, MS  
2014 Brownsville Community Alternative Spring Break, Brownsville, TX  
2013 – 2014 Texas Sea Grant Karma Floating Classroom, Brownsville, TX  
2013 Brownsville Unified School District Science Fair, Brownsville, TX  
2012 UT Brownsville Oceanarium Science Outreach, Brownsville, TX  
2011 Laguna Madre Humane Society, Port Isabel, TX  
2010 Pima Animal Control Center, Tucson, AZ  
2008 Animal Aware Hound Heights, Guatemala

### **CERTIFICATIONS**

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2019 Wilderness First Aid  
2018 FFI (FEAT/FIREMON Integrated) Ecological Monitoring Software Training  
2017 MSU Safe Zone-LGBTQ+ Community Support Training Certification  
2016 UTV/Off Road Vehicle  
2016 CPR/First Aid  
2014 Texas Coastal Naturalist  
2012 Nitrox SCUBA Diver  
2011 ATV/Off Road Vehicle  
2009 PADI Advanced SCUBA Diver  
2006 PADI Open Water SCUBA Diver

### **PROFESSIONAL ASSOCIATIONS**

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2022 – Southeastern Division of the American Association of Geographers (SEDAAG)  
2019 – American Association of Geographers (AAG)  
2019 – Athena Co-Learning Collective  
2018 – Ecological Society of America