

Diana S. Macias

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APPOINTMENTS

2026 – 2027 **University of California, Berkeley**

University of California President's Postdoctoral Fellow

Department of Environmental Science, Policy, and Management

2023 – 2026 **University of California, Berkeley**

NSF Postdoctoral Research Fellow in Biology

Department of Environmental Science, Policy, and Management

2023 – **Research Associate**, Herbarium, Museum of Southwestern Biology, University of New Mexico

EDUCATION

2023 Ph.D., Biology, University Of New Mexico.

2016 B.A., Zoology, University of Wisconsin, Madison.

RESEARCH GRANTS

2023-2025 University of California Office of the President, Climate Action Research Initiative. Climate Action Seed Grant. Co-Investigator; PI: Miranda Redmond \$1,998,931.

Press releases: [University of California Berkeley Research & Stanford Report](#)

2022 University of New Mexico, New Mexico Research Grant – High Priority, Graduate and Professional Student Association. \$5,000.

2022 University of New Mexico, Women in STEM (WIS) Grant, Co-I; PI: Hannah E. Marx. \$10,000.

2022 Howard McCarley Student Research Award, Southwestern Association of Naturalists. \$3,000.

2022 Vicki A. Funk Research Grant, American Society of Plant Taxonomists. \$1,500.

2022 WeR1: Investing in Faculty Success Program, Co-I; PI; William T. Pockman. \$4,500

2021 Bill Dahl Graduate Student Research Award, Botanical Society of America. \$1,500

2021-2022 University of New Mexico, Research Allocations Committee (RAC), Co-I. PI: Hannah E. Marx; Co-PI: William T. Pockman. \$10,000.

2021-2022	University of New Mexico Student Research Grant, Graduate and Professional Student Association. Awarded in Spring 2022 (\$500), and Spring 2021 (\$500). Total \$1,000.
2019-2022	University of New Mexico Graduate Research Allocations Committee (GRAC), Biology Graduate Student Association. Awarded in Spring 2022 (\$160), Spring 2021 (\$400), Spring 2019 (\$400), Spring 2020 (\$500), and Fall 2020 (\$400). Total \$1,860.
2019-2020	Lewis and Clark Fund for Exploration and Field Research, American Philosophical Society. \$4,600.
2019-2020	Alvin and Caroline Grove Scholarship, Department of Biology, UNM. \$2,750.
2018-2019	University of New Mexico, New Mexico Research Grant, Graduate and Professional Student Association. \$3,100.
2018	University of New Mexico Center for Stable Isotopes Pilot Grant. \$500.

AWARDS, FELLOWSHIPS, AND SCHOLARSHIP

2026-2027	University of California President's Postdoctoral Fellow.
2026	Ecological Society of America's Excellence in Ecology Scholarship.
2023-2026	Postdoctoral Research Fellowship in Biology, National Science Foundation.
2021- 2023	Identifying Environmental Drivers of Plant Reproduction Across LTER Sites, LTER Synthesis Working Group Participant.
2021-2023	The Harry Wayne Springfield Graduate Fellowship in Plant Ecology, University of New Mexico. Awarded twice.
2022	Travel Scholarship, SACNAS, Conference.
2022	Travel Scholarship, American Society of Plant Taxonomists, Botany Conference.
2022	Graduate Research Supplement, Graduate Studies, University of New Mexico.
2022, 2023	Doctoral Conference Presentation Award, Graduate Studies, University of New Mexico.
2016- 2020	New Mexico Higher Education Department (NMHED) Graduate Scholarship for Underrepresented Students.
2020	Finer Womanhood Award from Omega Alpha Zeta of Zeta Phi Beta Sorority, Inc.
2019	Doctoral Conference Presentation Award, Graduate Studies, University of New Mexico.
2018, 2019	Ford Foundation Pre-Doctoral Fellowship Honorable Mention.
2018	Lanzate! Higher Education Travel Award Program, Hispanic Association of Colleges and Universities and Southwest Airlines.
2017, 2018	Sevilleta Long Term Ecological Research Program Graduate Student Summer Fellowship. Awarded twice.

- 2015 Integrated Biological Sciences Summer Research Program, Institute for Biology Education at University of Wisconsin- Madison.
- 2013-2016 Ronald E. McNair Post-Baccalaureate Achievement Fellowship.
- 2012-2016 Community Environmental Scholars Program (CESP), Nelson Institute for Environmental Studies, University of Wisconsin—Madison.
- 2012-2013 Young People For (YP4) Fellowship. People for the American Way Foundation.
- 2011 Young Ambassadors Program (YAP). Smithsonian Latino Center.
- 2010 National Council of La Raza- Best Buy Emerging Latino Leaders Scholarship.

PUBLICATIONS

Submitted Manuscripts in Review

- **Macias, D.S.**, E.F. Gyllenhaal, J.A. Kleinkopf, W.T. Pockman, H.E. Marx. A multi-tissue transcriptome strategy for genomic resource development in *Pinus edulis*. (Invited submission, *Application in Plant Sciences*)
- **Macias, D.S.**, T. Gusite, P.B. Burrow, B. Adkins, A. Bococh, A.B. Basaraba, J. Beidl, B. Fillmore, H. Fillmore, E. Holston, R. Jones, S. Manning, M. Meyer, S. Meyering, W. Nabahe, E. Sage, H. Stone, Y. Syskine, A. Urza, A. Weber, N. Williams, G.W. Parodi, M.D. Redmond. Pathways to care: insights from Indigenous-led monitoring and a public survey. (In review after revision, *People and Nature*)
- **Macias, D.S.**, M. Mann, H.E. Marx, T.E.X Miller, W.T. Pockman. Alignment between masting and climate shapes recruitment dynamics for a foundational tree species. (In revision after review, *Journal of Ecology*)

Referred Journal Articles

10. **Macias, D.S.**, & M.D. Redmond. 2025. Climate-warming alters resource allocation in unpredictable ways. *Trends in Ecology & Evolution* 40(5): 428-430. ([link](#))
9. Nigro, K.M., J.H. Barton, **D.S. Macias**, V.B. Chaudhary, I.S. Pearse, D.M. Bell, A. Chen, N.L. Cleavitt, E.E. Crone, D.F. Greene, E.P. Holland, J.F. Johnston, W.D. Koenig, N.J. Lyon, T.E.X. Miller, M. Schulze, R.S. Snell, J.K. Zimmerman, J.M.H Knops, S. McNulty, R.R. Parmenter, M.A. Winterstein, R.I. Zlotin, J.M. LaMontagne, M.D. Redmond. 2025. Co-mast: Harmonized seed production data for woody plants across U.S. long term research sites. *Ecology* 106(1):e4463 ([link](#))
8. LaMontagne, J.M., D.F. Greene, E.P. Holland, J.F. Johnstone, M. Schulze, J.K. Zimmerman, N.J. Lyon, A. Chen, T.E.X. Miller, K.M. Nigro, R.S. Snell, J.H. Barton, V.B. Chaudhary, N.L. Cleavitt, E.E. Crone, W.D. Koenig, **D.S. Macias**, I.S. Pearse, and M.D. Redmond. 2024. Community synchrony in seed production is associated with trait

similarity and climate across North America. *Ecology Letters* 27: e14498. ([link](#))

***Winner of ESA's McIntosh Award for best paper in vegetation ecology** ([link](#))

7. Journé, V., ... **D.S. Macias**, ... *et al.* 2024. The relationship between maturation size and maximum tree size from tropical to boreal climates. *Ecology Letters*, 27(9): e14500. (108 authors) ([link](#))
6. Qiu, T., ... **D.S. Macias**, ... *et al.* 2023. Masting is uncommon in trees that depend on mutualist dispersers in the context of global climate and fertility gradients. *Nature Plants*, 9(7) 1044-1056. (96 authors) ([link](#))
5. Bogdziewicz, M., ... **D.S. Macias**, ... *et al.* 2023. Linking seed size and number to trait syndromes in trees. *Global Ecology and Biogeography*, 32(5) 683-694. (96 authors) ([link](#))
4. Journé, V., ... **D.S. Macias**, ... *et al.* 2022. Globally, tree fecundity exceeds productivity gradients. *Ecology letters*, 25(6), 1471-1482. (96 authors) ([link](#))
3. Qiu, T., ... **D.S. Macias**, ... *et al.* 2022. Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery. *Nature communications*, 13(1), 1-12. (103 authors) ([link](#))
2. Sharma, S., ... **D.S. Macias**, ... *et al.* 2022. North American tree migration paced by climate in the West, lagging in the East. *PNAS*, 119(3). (45 authors) ([link](#))
1. Clark, J.S., ... **D.S. Macias**, ... *et al.* 2021. Continent-wide tree fecundity driven by indirect climate effects. *Nature Communications*, 12(1), 1-11. (76 authors) ([link](#))

Other Publications

Macias, D.S., T. Gusite, B. Adkins, A. Bococho, A. Basaraba, J. Beidl, P.B. Burrow, R. Jones, E. Sage, Y. Syskine, A. Urza, A. Weber, G.W. Parodi, M.D. Redmond. 2025. Cultivating care: relational approaches to pinyon woodland stewardship across communities. [Pre-Analysis Plan]. *Open Science Framework*. ([link](#))

Macias, D.S., A. Vojdani, D.I. Moore, R.R. Parmenter. 2024. Tree Mast Production in Pinyon-Juniper-Oak Forests at the Sevilleta National Wildlife Refuge, New Mexico. [Dataset] *Environmental Data Initiative*. ([link](#))

PRESENTATIONS

Conferences Organized

- 2025 Conference co-organizer with Emma Sage and the [Pinyon Community Climate Action Network](#). Eastern Sierra Stewardship Summit. Cerro Coso Community College. Bishop, CA. Three-day conference on climate resilience and land stewardship, featuring focus groups on woodland health, a one-day research summit (99 participants), and pinyon

propagation workshops. Attendees included representatives from Tribal Nations, government agencies, NGOs, and local community members.

Panels Organized

- 2025 Panel co-organizer with Miranda Redmond and Rhiana Jones, Interdisciplinary approaches to enhance pinyon resilience. Eastern Sierra Stewardship Summit. Bishop, CA.
- 2024 Panel co-organizer with Briana Betke, Kylea Garces, Sandra Mendiola. Rooted in Dialogue: A Call from Postdoctoral Researchers to Strengthen the STEM Pipeline. Ecological Society of America Annual Meeting. Baltimore, MD.

Workshops Organized

- 2025 Co-organizer with Miranda Redmond and Yarrow Syskine. Hosted partners from Big Pine Paiute and Bishop Paiute Tribes for a multi-day workshop including a greenhouse tour, archival session at the Bancroft Library, and training with the Native American Studies Library at University of California, Berkeley.
- 2024 Organizer and Instructor. Community Science Training: Wunupu (Pine Nut Tree) Survey. Led five field workshops with Friends of the Inyo, Palisade Glacier High School students, Big Pine Paiute Tribe, and Bishop Paiute Tribe to collect data on woodland health and regeneration using ArcGIS Survey123.

Invited Talks and Panels

- 2025 Speaker. California Native Plant Society, Bristlecone Chapter. Bishop, CA.
- 2025 Speaker. Cross-Career Forestry Lighting Talks. Department of Environmental Science, Policy, and Management Seminar Series. University of California, Berkeley, CA.
- 2024 Speaker. Stanford University, Dirzo Lab, Department of Biology. Palo Alto, CA.
- 2024 Panelist. Society for Advancement of Chicanos/Hispanic & Native Americans in Science (SACNAS) Conference, NSF Postdoctoral Research Fellow in Biology (PRFB): How to plan and develop an effective fellowship proposal. Phoenix, AZ.
- 2023 Panelist. National Museum of the American Latino Young Ambassadors Program. Smithsonian Environmental Research Center. Edgewater, MD.
- 2022 Panelist. Seville Research Experience for Undergraduates Program Graduate Panel. Socorro, NM.
- 2022 Panelist. Ecological Society of America's Strategies for Ecology Education, Diversity, and Sustainability program (SEEDS) Career Panel. Socorro, NM.
- 2022 Speaker. National Center for Ecological Analysis and Synthesis (NCEAS) Roundtable Seminar. Santa Barbara, CA.
- 2016 Panelist. University of New Mexico McNair Alumni Panel. Albuquerque, NM.

Contributed Talks and Posters

- 2025 Talk, NAU's Biennial Conference of Science and Management. Flagstaff, AZ.
- 2024 Talk, Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) conference. Phoenix, AZ.
- 2024 Talk, Ecological Society of America. Long Beach. CA.

- 2023 Talk, Ecological Society of America. Portland, OR.
2023 Talk, Evolution Conference. Albuquerque, NM.
2023 Dissertation Defense, University of New Mexico. Albuquerque, NM.
2023 Talk, Department of Biology Brown Bag Seminar, University of New Mexico. Albuquerque, NM.
2022 Poster, Botany Conference. Anchorage, AK.
2022 Poster, Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) conference. San Juan, PR.
2022 Talk, Ecological Society of America. Montreal, Canada.
2021 Talk, Sevilleta Long-Term Ecological Research Brown Bag Seminar. Virtual.
2019 Poster, Ecological Society of America. Louisville, KY.
2018 Talk, Ecological Society of America. New Orleans, LA.
2018 Poster, Multiscale Vascular Plant Biology, Gordon Research Conference. West Dove, VT.
2018 Talk, Multiscale Vascular Plant Biology, Gordon Research Seminar. West Dove, VT.
2015 Talk, 25th Annual National Ronald E. McNair Research Conference. Delavan, WI.
2015 Talk, University of New Mexico Ronald E. McNair Research Conference. Albuquerque, NM.
2015 Poster, 23rd Annual California McNair Scholars Symposium. Berkeley, CA.
2015 Talk, Integrated Biological Sciences Research Symposium, University of Wisconsin, Madison. Madison, WI.

ADVISING & MENTORING

Mentored 14 students (11 undergraduate, 2 graduate, 1 high school student), including one senior honors thesis at UC-Berkeley. Two earned NSF Graduate Research Fellowships (2025, 2026).

TEACHING EXPERIENCE

Teaching Assistant

- 2016, 2018 Plant and Animal Form and Function Laboratory (BIOL304L), Department of Biology, University of New Mexico (54 undergraduates)

2017, 2020 Principles of Ecology and Evolution (BIOL 303L), Department of Biology, University of New Mexico (93 undergraduates)

Guest Lecture

- 2025 Applied Forest Ecology, University of California, Berkeley (20 undergraduates)

SERVICE & PROFESSIONAL SERVICE

University & Departmental Service

- 2019-2021 Graduate Student Member, New Student Representative, Department of Biology, University of New Mexico.
2020-2021 Co-Chair, Graduate Diversity, Equity, and Inclusion Committee, Department of Biology, University of New Mexico.

- 2019-2020 Graduate Student Member, Faculty Search Committee for “Assistant Professor & Curator of the Herbarium,” Museum of Southwestern Biology and the Department of Biology, University of New Mexico.
- 2017- 2018 Graduate Student Member, Research Day Organizing Committee, Department of Biology, University of New Mexico.

External Service

- 2024 Student Presentation Award Judge, Society for Advancement of Chicanos/Hispanic & Native Americans in Science (SACNAS) Conference.
- 2019 Mentor, Ecological Society of America’s Strategies for Ecology Education, Diversity, and Sustainability program (SEEDS).

PUBLIC ENGAGEMENT & OUTREACH

- 2025 University of California Botanical Garden presenter (at Director’s Reception event; showcased research on pine phylogenetics using specimens sampled at the Garden), Berkeley, CA.
- 2025 Owens Valley Tribal Environmental Youth Camp, Educator. Bishop, CA.
- 2025 Big Pine Paiute Tribal Earth Day Celebration, Invited presenter. Big Pine, CA.
- 2025 Wá-šiw Earth Day hosted by Washoe Tribe, Invited presenter. Markleeville, CA.
- 2024 Big Pine Community Open House, Invited speaker. Big Pine, CA.
- 2024 Bishop Paiute Tribe’s Earth Day and Spring Market, Invited speaker. Bishop, CA.
- 2024 Palisade Glacier High School, Invited speaker. Big Pine, CA.
- 2023 Museum of Southwestern Biology, Presenter (at “Evolution Revealed: Specimens Behind the Science” and “Night at the Museum” events; >1,000 visitors total), Evolution Conference, Albuquerque, NM ([press](#), [promo video](#))
- 2020 Jefferson Middle School Science Fair Judge
- 2019 Poster, University of New Mexico Day Legislative Reception. Santa Fe, NM.

MEDIA APPEARANCES

- 2026 Featured on Noticias Telemundo’s *AHORA: Planeta Tierra*, a weekly Spanish-language environmental and climate news program. ([link](#))
- 2025 Quoted in *The New York Times*, *The Washington Post*, *The Guardian*, and *NPR* on federal attacks on DEI initiatives and their impact on scientific research.
- NPR: “White House moves to control science funding worry researchers.” ([link](#))
 - NYT: “Trump’s DEI rollback alarms scientist.” ([link](#))
 - The Guardian: “U.S. scientists raise alarm over executive order curbing DEI.” ([link](#))
 - The Washington Post: “Researchers warn of chilling effects from new science directives.” ([link](#))
- 2024 Featured on Brains on! Moment of Um, a national public radio show for youth audiences.
- Episode: “How do trees make rings?” ([link](#))
 - Episode: “Why don’t pine trees lose their needles in the winter?” ([link](#))

FIELD AND MUSEUM EXPERIENCE

Fieldwork Leadership

Pinyon Landscape Genomics (2020-2023)

Led and coordinated >10 field campaigns across the southwestern U.S. (TX, NM, CO, UT, CA, AZ) focused on piñon pine genetic sampling, and ecological data collection. Collected and vouchered 385 specimens with associated frozen tissue, now publicly available through the SEINet database.

Sevilleta Woodland Monitoring (2018 —)

Lead ongoing fieldwork at Sevilleta Field Station (NM) monitoring growth, mortality, and reproduction of piñon, juniper, and oak trees (n=800) across long-term woodland plots to assess demographic responses to drought and climate variability.

Community-Based Research and Engagement

Community Stewardship and Knowledge Exchange (2025)

Led a series of Institutional Review Board–approved focus groups in the Eastern Sierra to document perspectives on woodland stewardship, language, and care. Sessions included participants from the Bishop Paiute Tribe, Big Pine Paiute Tribe, U.S. Forest Service, Bureau of Land Management, and Friends of the Inyo.

Museum and Collections Experience

Museum of Southwestern Biology, University of New Mexico (2020–2021)

Graduate Curatorial Assistant, Division of Arthropods, Department of Biology.

Center for Stable Isotopes, University of New Mexico (2019)

Graduate Laboratory Assistant.

PROFESSIONAL DEVELOPMENT

- 2025 Collaborative Institutional Training Initiative (CITI): Human Research –Group 2: Social and Behavioral Research Investigators. University of California, Berkeley.
- 2024 University of California Field Safety Leadership Retreat. UC Davis Bodega Marine Lab. Bodega Bay, CA.
- 2024 Indigenous Co-Stewardship of Public Lands: Lessons for the Future. Graton Resort & Casino. Rohnert Park, CA.
- 2018 Dendrochronology Intensive Summer Course (DISC). Laboratory of Tree-Ring Research, University of Arizona. Tucson, AZ.
- 2017 Science Communication Fellow, Explora Science Center and Children’s Museum. Albuquerque, NM.