

Melissa M. Rohde, Ph.D.

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PROFESSIONAL

2022 - Pres	Principal, Rohde Environmental Consulting, LLC, USA
2015 - 2022	Groundwater Scientist, The Nature Conservancy, USA
2015	Consultant, Resources Legacy Fund (Water Foundation), USA
2013 - 2015	Research Scientist, Water in the West, Stanford University, USA
2011	Research Assistant, University of Oxford, United Kingdom
2009 - 2010	Technician, Geosciences Department, Princeton University, USA
2007 - 2008	Technician, Institute for Environmental Geosciences, Universität Basel, Switzerland

EDUCATION

2018-2023	Ph.D. Candidate Environmental Science, SUNY College of Environmental Science & Forestry
2011-2014	M.S. Environmental Engineering, Stanford University
2008-2009	M.Sc. Water Science, Policy and Management, University of Oxford (with distinction)
2003-2007	B.Sc. Biology & Oceanography (Honors), University of British Columbia

PEER-REVIEWED PUBLICATIONS

*shared first authorship

22. **Rohde, M.M.** 2023. Financial incentives can leverage existing infrastructure to replenish groundwater. *Nature Water*, doi: 10.1038/s44221-023-00140-2. [\[Link\]](#)

21. Dyring, M., **M.M. Rohde**, R. Froend, H. Hoffman. 2023. Coastal groundwater-dependent ecosystems fall through policy gaps. *Groundwater*, doi: 10.1111/gwat.13352. [\[Link\]](#)

20. Perrone, D.*, **M.M. Rohde***, C.H. Wagner*, R. Anderson, S. Arthur, N. Atume, M. Brown, L. Esaki-Kua, M. Gonzalez, K. Garvey, K. Heidel, W. Jones, S. Khosrowshahi Asl, C. Munill, R. Nelson, J.P. Ortiz-Partida, E. Remson. 2023. Stakeholder integration predicts better outcomes from groundwater sustainability policy. *Nature Communications*, doi: 10.1038/s41467-023-39363-y. [\[Link\]](#)

19. Howard, J.K., K. Dooley, K. Brauman, K.R. Klausmeyer, **M.M. Rohde**. 2023. Ecosystem services produced by groundwater dependent ecosystems: a framework and case study in California. *Frontiers in Water*, doi: 10.3389/frwa/2023.1115416. [\[Link\]](#)

18. Huggins, X., T. Gleeson, D. Serrano, S. Zipper, F. Jehn, **M.M. Rohde**, A. Hartmann. 2023. Overlooked risks and opportunities for global protected areas revealed by mapping groundwatersheds. *Nature Sustainability*, doi: 10.1038/s41893-023-01086-9. [\[Link\]](#)

17. **Rohde, M.M.** 2023. Floods and Droughts are Intensifying Globally. *Nature Water*, doi: 10.1038/s44221-023-00047-y. [\[Link\]](#)

16. **Rohde, M.M.**, T. Biswas, I.W. Housman, L.S. Campbell, K.R. Klausmeyer, J.K. Howard. 2021. A machine learning approach to predict groundwater levels in California reveals ecosystems at risk. *Frontiers in Earth Science*, doi: 10.3389/feart.2021.784499. [\[Link\]](#)
15. **Rohde, M.M.**, J. Stella, D. Roberts, M.B. Singer. 2021. Groundwater dependence of riparian woodlands and the disrupting effect of anthropogenically altered streamflow. *Proceedings of the National Academy of Sciences*, doi:10.1073/pnas.2026453118. [\[Link\]](#)
14. Saito, L., B. Christian, J. Diffley, H. Richter, **M.M. Rohde**, S. Morrison. 2021. Managing groundwater to ensure ecosystem function. *Groundwater*, doi:10.1111/gwat.13089. [\[PDF\]](#)
13. Kang, M., D. Perrone, Z. Wang, S. Jasechko, **M.M. Rohde**. 2020. Base of fresh water, groundwater salinity and well distribution across California. *Proceedings of the National Academy of Sciences*, doi: 10.1073/pnas.2015784117. [\[Link\]](#)
12. **Rohde, M.M.**, M. Reynolds, and J. Howard. 2019. Dynamic multibenefit solutions for global water challenges. *Conservation Science and Practice*, doi:10.1111/csp2.144. [\[PDF\]](#)
11. **Rohde, M.M.**, S.B. Sweet, C. Ulrich, and J. Howard. 2019. A Transdisciplinary Approach to Characterize Hydrological Controls on Groundwater-Dependent Ecosystem Health. *Frontiers in Environmental Science*, 7:175. doi: 10.3389/fenvs.2019.00175. [\[PDF\]](#)
10. Zipper, S., J. Carah, C. Dillis, T. Gleeson, B. Kerr, **M.M. Rohde**, J. Howard, J. Zimmerman. 2019. Cannabis and residential groundwater pumping impacts on streamflow and ecosystems in Northern California. *Environmental Research Communications*, 1:125005. doi: 10.1088/2515-7620/ab534d. [\[PDF\]](#)
9. Matsumoto, S., **M.M. Rohde**, S. Heard. 2019. Economic Tools to Achieve Groundwater Sustainability for Nature: Two Experimental Case Studies from California. *Water Economics and Policy*, doi: 10.1142/S2382624X19710024. [\[Link\]](#)
8. Zipper, S.C., T. Gleeson, B. Kerr, J.K. Howard, **M.M. Rohde**, J. Carah, and J. Zimmerman. 2019. Rapid and accurate estimates of streamflow depletion caused by groundwater pumping using analytical depletion functions. *Water Resources Research*, 55(7): 5807-5829. [\[Link\]](#)
7. **Rohde, M.M.**, R. Froend, J. Howard. 2017. A Global Synthesis of Managing Groundwater Dependent Ecosystems Under Sustainable Groundwater Policy. *Groundwater*, 55(3). [\[PDF\]](#)
6. Perrone, D. and **M.M. Rohde**. 2016. Benefits and Economic Costs of Managed Aquifer Recharge in California. *San Francisco Estuary & Watershed Science*, 14(2). [\[PDF\]](#)
5. **Rohde, M.M.**, W.M. Edmunds, S. Sharma. 2015. An accessible hydrogeological tool to monitor critical groundwater resources in hard-rock aquifers, *Frontiers in Environmental Science*, 3(67), doi: 10.3389/fenvs.2015.00067. [\[PDF\]](#)
4. **Rohde, M.M.**, W.M. Edmunds, D. Freyberg, O.P. Sharma, A. Sharma. 2015. Estimating aquifer recharge in fractured hard rock: An analysis of the methodological challenges and its application to obtain a water balance, *Journal of Hydrogeology*, 23(7), p. 1573-1586, doi: 10.1007/s10040-015-1291-9. [\[Link\]](#)
3. **Rohde, M.M.**, J. Granger, D.M. Sigman, and M.F. Lehmann. 2015. Coupled nitrate N and O stable isotope fractionation by a natural marine plankton consortium. *Frontiers in Marine Science*, 2(28), doi: 10.3389/fmars.2015.00028. [\[Link\]](#)

2. Granger, J., D.M. Sigman, **M.M. Rohde**, M.T. Maldonado, and P.D. Tortell. 2009. N and O isotope effects during nitrate assimilation by unicellular prokaryotic and eukaryotic plankton cultures, *Geochimica Et Cosmochimica Acta*, 74(3), 1030-1040. [\[Link\]](#)

1. Robinson, R. S., D. M. Sigman, P. J. DiFiore, **M. M. Rohde**, T. A. Mashiotta, and D. W. Lea. 2005. Diatom-bound¹⁵N/¹⁴N: New support for enhanced nutrient consumption in the ice age subantarctic, *Paleoceanography*, 20. [\[Link\]](#)

OTHER PUBLICATIONS

14. Chapelle, C., S. Arthur, N. Atume, J.P. Ortiz-Partida, E.J. Remson, **M.M. Rohde**. 2023. Achieving Groundwater Access for All: Why groundwater sustainability plans are failing many users. Groundwater Leadership Forum. [\[Link\]](#)

13. Arthur, S., N. Atume, J.P. Ortiz-Partida, **M.M. Rohde**. 2022. Groundwater Sustainability Assessments: A Review of the Department of Water Resources' Determinations on Groundwater Sustainability Plans in Critically Overdrafted Basins. Groundwater Leadership Forum. [\[Link\]](#)

12. Parker, S.S., B. Franklin, A. Williams, B.S. Cohen, M. Clifford, **M.M. Rohde**. 2022. Potential Lithium Extraction in the United States: Environmental, Economic, and Policy Implications. [\[Link\]](#)

11. Gleeson, T., X. Huggins, R. Connor, P. Arrojo-Agundo, E.V. Sune, K. Villholth, **M.M. Rohde**, J. van der Gun, D. Kremer, M. Manzano, L. Scrinzi, G. Arduino, T.C. Resende, N. Moosdorf, V. Walsh, A. Harjung. 2022. Groundwater and Ecosystems. In UNESCO World Water Assessment Programme (WWAP). The United Nations World Water Development Report 2022: Groundwater: Making the invisible visible. Paris, France: UNESCO. pp.89-100. [\[Link\]](#)

10. Thompson, B., **M.M. Rohde**, J.K. Howard, S. Matsumoto. 2021. Mind the Gaps: The Case for Truly Comprehensive Sustainable Groundwater Management. Water in the West. Stanford Digital Repository. Available at: <https://purl.stanford.edu/hs475mt1364>. [\[PDF\]](#)

9. Kang, M., D. Perrone, Z. Wang, S. Jasechko, **M.M. Rohde**. 2020. Deep groundwater is poorly safeguarded in California. Research Brief. [\[PDF\]](#)

8. **Rohde, M.M.**, L. Saito, R. Smith. 2020. Groundwater Thresholds for Ecosystems: A Guide for Practitioners. The Nature Conservancy. [\[PDF\]](#)

7. Hamel, P., A. Garcia, C. Schloss, **M.M. Rohde**, A.D. Guerry, and K. Wyatt. 2019. Stormwater management services maps for the San Francisco Bay Area. Working paper. Available at: <https://naturalcapitalproject.stanford.edu>. [\[PDF\]](#)

6. **Rohde, M.M.**, B. Seapy, R. Rogers, X. Castañeda (editors). 2019. Critical Species LookBook: A compendium of California's threatened and endangered species for sustainable groundwater management. The Nature Conservancy, San Francisco, California. [\[PDF\]](#)

5. Klausmeyer, K., T. Biswas, **M.M. Rohde**, F. Schuetzenmeister, N. Rindlaub, J.K. Howard. 2019. GDE Pulse: Taking the Pulse of Groundwater Dependent Ecosystems with Satellite Data. San Francisco, California. [\[Link\]](#)

4. **Rohde, M.M.** and S. Matsumoto. 2018. The Groundwater Resource Hub: Tools and Resources for Addressing Groundwater Dependent Ecosystems under SGMA. *Hydrovisions*, 27(2): 7-9. [\[PDF\]](#)

3. **Rohde, M.M.**, S. Matsumoto, J. Howard, S. Liu, L. Riege, and E. Remson. 2018. Groundwater Dependent Ecosystems Under The Sustainable Groundwater Management Act: Guidance for Preparing Groundwater Sustainability Plans. The Nature Conservancy: San Francisco. [\[PDF\]](#)

2. **Rohde, M.M.** 2017. Securing Food, Energy, and Water in India: Shifting the governance landscape to tackle socio-economic challenges through integrated policies. In Pereira, L.M., C. McElroy, A. Littaye, A.M. Girard (Eds.), *Food, Energy and Water Sustainability: Emergent Governance Strategies*. Abingdon, U.K: Earthscan. [\[Order\]](#)

1. Perrone, D. and **M.M. Rohde**. 2014. Storing Water in California: What Can \$2.7 Billion Buy Us? Water in the West, Stanford University, Stanford, California. [\[PDF\]](#)

GRANTS & FELLOWSHIPS

2021-2026	Is there a least-cost path to recovery? Comparing alternative management strategies to address multiple interacting stressors on Least Bell's Vireo populations, SERDP (\$2,609,561; \$329,238 to co-PI M.M. Rohde)
2013	Solar Irrigation Project in India, SunEdison and Engineers for a Sustainable World (\$5,000)
2012	Borlaug Fellow in Global Food Security, Purdue University (\$15,000)
2012	Human Centered Design MicroGrant, IDEO (\$5,000)
2011	Haas Graduate Public Service Fellow (\$4,000)
2011-2014	National Science Foundation Graduate Research Fellowship (\$129,500)
2009	Groundwater monitoring in a rural India, Kellogg College Alumni Grant (\$5,000)
2009	Huber Technology Research Fund (\$5,000)
2007-2008	International Polar Year Field School in Svalbard, IPY-Norway and University of the Arctic (\$101,771)
2007-2009	Seattle Landscaping & Urban Gardening for Schools, City of Seattle (\$18,000)
2007	Juneau Icefield Research Program, NASA undergraduate scholarship (\$5,000)
2007	International Ocean Color Coordinating Group, Canada (\$2,000)
2006	NSERC Undergraduate Summer Research Fellowship (\$10,000)
2005	CEBIC Undergraduate Research Fellowship, Princeton University (\$5,000)
2003	Union Street School Parent Council Scholarship (\$1,000)
2002	Fred Brine Memorial Scholarship, University of New Brunswick (\$1,000)
2002	William & Lois Paine Founder's Scholarship, University of New Brunswick (\$1,000)

HONORS & AWARDS

2013	Rising Environmental Leader Fellow, Woods Institute, Stanford University
2012	Antarctica Service Medal of the United States of America, National Science Foundation
2009	World Meteorological Organization & The International Council for Science Certificate of Appreciation for contributing to the International Polar Year 2007-08
2006	American Society of Limnology Oceanography Outstanding Student Poster Award, Victoria, Canada

COMMUNITY OUTREACH & ACTIVITIES

2011-2014	Project Leader, Solar Irrigation in India, Engineers for a Sustainable World, Stanford University, California, USA
2012-2013	Organizing Member, Education Without Borders 2013 Conference in Dubai, UAE
2009-2010	Chief Science Leader, Indian Himalayas Expedition, British Schools Exploring Society
2008-2009	Co-Organizer, Water Enterprise Forum, Oxford University
2008-2009	Co-Director, Oxford Green Schools, Cherwell School, Oxford, UK
2008	Member, Green Committee, Coler & Colantonio, Norwell, Mass, USA
2007-2009	Co-coordinator, International Polar Year Field School, Svalbard, Norway
2007-2009	Co-founder, Seattle Landscaping & Urban Gardening for Schools, USA
2005-2006	Co-founder/Secretary, UBC Oceanography Society, Canada

FIELDWORK

2010-2011	Research Technician, Ice Core Drilling, Princeton University, Antarctica
2008	Intern, Wetland delineation and endangered species tracking, Coler & Colantonio, Massachusetts, USA
2008	Research Assistant II, Water sampling and on-board productivity surveys along the Columbia River Coastal Estuary, Oregon Health & Science University, Oregon, USA
2007	Technician, Dam deformation monitoring, Coler & Colantonio, Massachusetts, USA
2007	Participant, Glaciology mass balance & photogrammetry, Juneau Icefield Research Program, Alaska, USA
2006	NSERC fellow, Hydrographic surveying of Fraser River Estuary, University of British Columbia, Canada
2005	Research Assistant, Ocean sediment and water sampling, R/V New Horizon, Princeton University, Channel Islands, California, USA

MEDIA

Los Angeles Times. “Thousands of California wells are at risk of drying up despite landmark water law.” (September 20, 2023) [\[Link\]](#)

Washington Post. “A warmer world causes extreme drought and rain. ‘Indisputable’ new research proves it.” (March 13, 2023) [\[Link\]](#)

Los Angeles Times. “As California droughts intensify, ecosystems and rural communities will bear the brunt.” (November 25, 2022) [\[Link\]](#)

Los Angeles Times. “A frenzy of well drilling by California farmers leaves taps running dry.” (December 16, 2021) [\[Link\]](#)

Stanford Law Journal. “California Burning: Stanford research looks at drought, wildfires, and smoke and the growing risks of climate change in the golden state.” (December 15, 2021) [\[Link\]](#)

The Wildlife Society. “Human water demand can imperil California’s endangered species.” (September 1, 2021) [\[Link\]](#)

Inside Climate News. “Forests of the Living Dead”. (July 6, 2021) [\[Link\]](#)

Courthouse News. "California's riparian woodlands at risk of decline." (June 14, 2021) [\[Link\]](#)

High Country News. "How 'sustainable' is California's groundwater sustainability act?" (May 10, 2021) [\[Link\]](#)

CalMatters. "California needs comprehensive groundwater management" (Op-Ed April 8, 2021) [\[Link\]](#)

waterloop podcast. "Digging up groundwater data with Ben Kerr, Melissa Rohde, and Tom Gleeson" (Feb 24, 2021) [\[Link\]](#)

McGill News. "Big data offers promise of better groundwater management in California" (Dec 9, 2020) [\[Link\]](#)

Ensia. "Freshwater Springs Support Amazing Ecosystems and Reflect the Health of Aquifers Humans Rely On. What Can We Do To Protect Them?" (March 19, 2019) [\[Link\]](#)

Water Deeply. "Why the Environment Is a Big Winner in California's Groundwater Law" (August 20, 2018) [\[Link\]](#)

Yale Environment 360. "In a rare U.S. preserve, water pressures mount as development closes in" (August 2017) [\[Link\]](#)

Salon. "California farmers use floodwater to replenish aquifers" (February 2017) [\[Link\]](#)

SF Chronicle. "California's statewide water restrictions still needed" (Op-Ed April 2016) [\[Link\]](#)

Desert Sun (USA Today). "Use Local Water to Recharge Aquifers" (Op-Ed March 2016) [\[Link\]](#)

Los Angeles Times. "To save water, an underground movement to bank El Niño's rainfall" (November 2015) [\[Link\]](#)

Huffington Post. "California Whiplash" (February 2015) [\[Link\]](#)

SF Gate Opinion. "Getting our money's worth from \$7.5 billion water bond" (November 2014) [\[Link\]](#)

The Guardian. "Get used to toilet-to-tap water, Californians told" (August 2014) [\[Link\]](#)

SFGate Opinion. "California's invisible reservoirs" (August 2014) [\[Link\]](#)

New York Times Opinion Pages. "How Conservation and Groundwater Management Can Gird California for a Drier Era" (August 2014) [\[Link\]](#)

Stanford News. "Stanford's Water in the West program offers new way to view groundwater resources" (July 2014) [\[Link\]](#)

AGU Blogosphere. "Measuring groundwater recharge could protect rural farmers' livelihoods" (December 2012) [\[Link\]](#)

SELECTED PRESENTATIONS

Session Co-convenor: “Conservation Ecohydrology”. American Geophysical Union Fall Meeting 2023, 11-15 December 2023, San Francisco, California, USA.

Invited Panelist: “SGMA Review: Achieving Groundwater Access for All & Visual Data Tool Demonstration”. Groundwater Exchange Webinar, 15 Aug 2023, online.

Invited Speaker: “Mapping groundwater dependent ecosystems globally to build resilient communities, combat climate change, and mitigate biodiversity loss”. American Geophysical Union (AGU) Fall Meeting, 12-15 December 2022, online.

Invited Panelist: “Long-term Drought Impacts on Ecosystems”. California Water Commission Meeting. 16 November 2022. [\[Link\]](#)

Session Convenor: “Mapping Groundwater Dependent Ecosystems Across the Globe with Satellites and Machine Learning”. Session 10636: “Groundwater for Ecosystems: Preserving Biodiversity, Socio-economic, and Cultural Values”. World Water Week, Stockholm. 31 August 2022. Hybrid In-Person and Virtual Event.

Invited Panelist: “What’s Beneath Our Feet?”. POLIS Water Sustainability Project, University of Victoria, 22 March 2022, online.

Invited Panelist: “NGO Findings – Review of 2020 Groundwater Sustainability Plans”. Groundwater Resource Association Groundwater Sustainability Agency Summit, 9-10 June 2021, online.

Invited Webinar: “Managing California’s Groundwater: Interconnected Surface Waters & Environmental Users”. The Local Government Commission and the Groundwater Exchange Webinar, 7 June 2021, [online](#).

Rohde, M.M., J. Stella, M.B. Singer, D. Roberts. Detecting riparian vegetation responses to groundwater changes using Sentinel satellite imagery and cloud-based computing. American Geophysical Union (AGU) Fall Meeting, 1-17 December 2020, online.

Invited Presentation: “Groundwater & Ecosystems: Insights from an innovative programme in California (USA)” The Nature Conservancy Latin America Region Water Funds Workshop, 2 Dec 2020, online.

Rohde, M.M., J. Stella, M.B. Singer, D. Roberts. Detecting riparian vegetation responses to groundwater changes using Sentinel satellite imagery and cloud-based computing. Geological Society of America (GSA) Annual Meeting, 26-30 October 2020, online.

Rohde, M.M., J. Stella, M.B. Singer, D. Roberts. Detecting riparian woodland response to groundwater changes using Sentinel satellite imagery and cloud-based computing. Ecological Society of America (ESA) Annual Meeting, 3-6 August 2020, online.

Invited Speaker: “Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act”, Greater Ventura County Webinar, 19 June 2020, online.

Invited Speaker: “Dynamic Multi-benefit Managed Aquifer Recharge”, Economics of Managed Aquifer Recharge Workshop, USDA Economic Research Service, 26 June 2019, Washington, D.C., USA.

Invited Speaker: "Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act: Guidance for Preparing Groundwater Sustainability Plans", American Water Works Association Annual Conference, 26 March 2019, Sacramento, California, USA.

Invited Panelist: "Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act: Guidance for Preparing Groundwater Sustainability Plans". Nevada Water Resources Association 2019 Annual Conference, 31 January 2019, Atlantis Hotel & Casino, Reno, Nevada, USA.

Invited Speaker: "Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act: Guidance for Preparing Groundwater Sustainability Plans". Salinas Valley Groundwater Sustainability Agency Board of Directors Special Meeting, 10 January 2019, Gonzales, California, USA [\[Video\]](#).

Invited Panelist: "Connecting the Dots between Water, Agriculture, and Ecosystems". Central Coast Regional Climate Symposium, 10 December 2018, University of Santa Cruz, California, USA.

Invited Panelist: "Take me to the (Ground)Water: Hot Legal Issues in Groundwater Law". Groundwater Resources Association First Annual Western Groundwater Congress, 27 September 2018, Sacramento, California, USA.

Invited Speaker: "Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act". Delta-Mendota Subbasin GDE Workshop, 24 August 2018, Los Banos, California, USA.

Invited Speaker: "Groundwater Dependent Ecosystems Defined and New Tools for Developing Sustainable Management Criteria. Groundwater Resources Association First Annual Groundwater Sustainability Agency Summit, 7 June 2018, Sacramento, California, USA.

Invited Webinar: "Live Online Walkthrough - Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act: Guidance for Preparing Groundwater Sustainability Plans". Association_of_California_Water_Agencies_Webinar, 31 May 2018.

Invited Speaker: "Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act: Tools & Guidance for Preparing Groundwater Sustainability Plans". Association of California Water Agencies, Groundwater Committee Meeting, 8 May 2018, Sacramento, California, USA.

Invited Speaker: "Groundwater Dependent Ecosystems under the Sustainable Groundwater Management Act: Guidance for Preparing Groundwater Sustainability Plans". Sustainable Water Resources Roundtable, 4 May 2018, Sonoma, California, USA.

Invited Speaker: "Securing Water for People and Nature". World Water Day Celebration, 11 April 2018, Orbach Library, University of California, Riverside campus, California, USA.

Rohde, M.M., C. Ulrich, J. Howard, S. Sweet. 2017. Monitoring and Assessing Groundwater Impacts on Vegetation Health in Groundwater Dependent Ecosystems. American Geophysical Union (AGU) Fall Meeting 2017, New Orleans, Louisiana, USA [\[POSTER\]](#)

Session Co-convenor: "Practical Research at the Intersection of Ecology and Hydrology for Sustainable Water Management". American Geophysical Union Fall Meeting 2017, 12 December 2017, New Orleans, Louisiana, USA.

Workshop Convenor: "Monitoring Groundwater Dependent Ecosystems under California's Sustainable Groundwater Management Act (SGMA) and Beyond. Part 1: Putting Policy into Practice and Part 2:

Measure to Manage.” Riparian Summit Workshop, 19 October 2017, University of California, Davis, California, USA.

Presenter: “Avoiding Undesirable Results: How GDE Data Can Inform Minimum Thresholds & Measurable Objectives under SGMA. Groundwater Resources Association Annual Meeting, 3 October 2017, Sacramento, California, USA.

Session Convener: “Putting Policy into Practice - Achieving Sustainable Groundwater Management for People and Nature”. Special Session at the Ecological Society of America Annual Conference, 7 August 2017, Portland, Oregon, USA.

Invited Webinar: “Tools for Mapping and Managing Groundwater Dependent Ecosystems in SGMA Groundwater Sustainability Plans”. Groundwater Resources Association Webinar (GRA Cast), 15 February 2017.

Co-Presenter: “Considering Groundwater Dependent Ecosystems and Interconnected Surface Waters under SGMA: Tools, Mapping, and a Guidance Framework”. Groundwater Resources Association Annual Conference, 29 September 2016, Sacramento, California, USA.

Rohde, M.M., S. Liu, B. Bondy, T. Morgan, D. Detmer, K. Klausmeyer, J. Howard. 2016. Considering Groundwater Dependent Ecosystems under SGMA: A Case Study from Ventura County. Groundwater Resources Association (GRA): Developing Groundwater Sustainability Plan for Success Conference 8-9 June 2016, Sacramento, California, USA [\[POSTER\]](#)

Invited Panelist: The Stanford Woods Institute's 10th Anniversary Symposium: Breaking Through to Global Sustainability. Panel on the Next Generation Environmental Solutions, 11 November 2014, Cemex Auditorium, Stanford University, Stanford, California, USA.

Invited Speaker: "To pump or not to pump: the groundwater question". Presentation for Breakout Session at Connecting the Dots: The Water, Food, Energy, and Climate Nexus Conference. 16 April 2012, Arilliaga Alumni Center, Stanford University, Stanford, California, USA.

Rohde, M.M., W.M. Edmunds, O.P. Sharma, J. Davis. 2012. A Participatory Water Management Tool for the Determination of Groundwater Recharge. American Geophysical Union (AGU) Fall Meeting 2012, San Francisco, California, USA [\[POSTER\]](#)

Rohde, M.M., W.M. Edmunds, O.P. Sharma, A. Sharma. 2011. A Watershed Approach for the Determination of Groundwater Recharge in Rajasthan, India. American Geophysical Union (AGU) Fall Meeting 2011, San Francisco, California, USA [\[POSTER\]](#)

Rohde, M.M. 2009. Lessons from India: sustainable solutions to the water crisis. In: Green Economics Institute Conference Proceedings held at Oxford University, Oxford, United Kingdom [\[PDF\]](#)

Rohde, M.M., J. Granger, D.M. Sigman, P.D. Tortell. 2006. The Effect of Light on Coupled N and O stable Isotope Fractionation During Nitrate Assimilation by Marine Phytoplankton, American Society of Limnology & Oceanography (ASLO) Summer Meeting 2006, Victoria, British Columbia, Canada [\[POSTER\]](#)

PROFESSIONAL DEVELOPMENT

- 2020 | Active Bystander Training, The Nature Conservancy
- 2016 | Communicate to Influence Program for Communication and Leadership Excellence, Decker Communications
- 2016 | Highly Effective Teams Training, The Nature Conservancy
- 2016 | Resistivity Imaging Training, Advanced Geosciences, Inc.

TEACHING EXPERIENCE

- 2014 | Teaching Assistant, CEE165C/265C: Water Resources Management, Stanford University
- 2014 | Teaching Assistant, CEE73: Understanding Water, Stanford University
- 2014 | Course Assistant, GEOPHYS 104: The Water Course, Stanford University
- 2012 | Teaching Assistant, CEE177X/277X: Design for a Sustainable World, Stanford University
- 2006 | Teaching Assistant, EOSC 448E: Seminal Papers in Marine Biogeochemistry, University of British Columbia

MENTORING

- 2022 | Karlee Liddy, Masters Student, University of California, Santa Cruz, USA
- 2021-22 | Maddy Dyring, PhD Candidate, University of Queensland, Australia
- 2020-21 | Sarah Tooms, Masters Student, University of Oxford, UK

PROFESSIONAL SERVICE

Journal Reviewer

Earth's Future
Frontiers in Environmental Science
Geocarto International
Hydrogeology Journal
Journal of Hydrology
Nature Water
Remote Sensing in Ecology and Conservation
Water Resources Research

Institutional Service & Committees

- 2022 | Member, Sonoma County Well Ordinance Technical Working Group
- 2018 - 2022 | Member, Global Groundwater Group, The Nature Conservancy (Chair 2018-19)
- 2020 - 2021 | Committee Member, Groundwater Dependent Ecosystem Practitioner Work Group
Sonoma Valley Groundwater Sustainability Agency
- 2020 - 2021 | Committee Member, Sonoma Sustainable Management Criteria for Depletion of
Interconnected Surface Water Work Group, Sonoma Valley Groundwater Sustainability
Agency

2020 - 2021	Committee Member, Surface Water Technical Advisory Group, Santa Margarita Groundwater Agency
2019	Member, FloodMAR Research Advisory Committee: Tool and Application Development, California Department of Water Resources
2018 - 2019	Committee Member, Surface Water Working Group, Santa Cruz Mid-County Groundwater Agency
2014 - 2016	Member, Environmental and Water Resources Committee Member, Santa Clara Valley Water District

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science (AAAS) - Member (2018)

American Geophysical Union - Member (2011-present)

Groundwater Resources Association of California - Member (2016 - present)

National Groundwater Association - Member (2014)

Water Environment Federation - Member (2014)

SKILLS

- **Data Science:** ArcGIS, R statistical software, Python, Jupyter Lab, Google Earth Engine, Anaconda
- **Coding Languages:** R, Python, Java
- **Languages:** English (native), Spanish (beginner), Hindi (beginner)
- PADI Open Water Diver Certification
- Solo Wilderness First Aid Medicine Certification / CPR Certification with American Heart