

# MAYA ALMARAZ

## Yale University

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## PROFESSIONAL APPOINTMENTS

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Associate Research Scientist, Yale University	2024
Associate Research Scholar, Princeton University	2022
Natural Climate Solutions Carbon Scientist, The Nature Conservancy	2021
Working Lands Innovation Center Lead Researcher, University of California, Davis	2019

## POSTDOCTORAL EXPERIENCE

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World Wildlife Fund Postdoctoral Research Fellow, University of California, Santa Barbara	2018
National Science Foundation Postdoctoral Research Fellow, University of California, Davis	2016

## EDUCATION

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PhD	Brown University, Ecology and Evolutionary Biology	2017
BS	University of California, Berkeley, Conservation and Resource Studies	2009
BA	University of California, Berkeley, Public Health	2009

## RESEARCH EXPERIENCE

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- 2014 Visiting Scientist – Nitrogen emissions from forested and agricultural soils – Cary Institute
- 2013 PhD Candidate – Nitrogen emissions from tropical forest soils – Brown University
- 2011 Research/teaching Assistant, – Nitrogen cycling in tropical agriculture – Brown University
- 2009 Associate Laboratory Manager – Compost to sequester carbon in rangelands – UC Berkeley
- 2009 Field/lab technician – Using urban gardens to attract native bees – UC Berkeley
- 2008 Field technician – Cattle grazing influence on grassland flora diversity – UC Berkeley
- 2008 Laboratory assistant – Biology lab classroom preparation – LA Valley Community College
- 2006 Field course – Mutualistic effects between ants and scale insects – UC Berkeley
- 2002 Field technician – Tropical forest rat influence on seed germination and dispersal – UC Davis

## AGU PUBLICATIONS

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1. Barnes, R. T., M. A. Wolford, **M. Almaraz**, E. L. Cardarelli 2024. Not Enough: Efforts to Diversify Biogeosciences Benefit Limited Segment of Society. *In press at Journal of Geophysical Research Biogeosciences*. (Invited paper).
2. **Almaraz, M.**, P. M. Groffman, W. L. Silver, S. J. Hall, Lin, Y., O'Connell, C., S. Porder 2023. Dinitrogen emissions dominate nitrogen gas emissions from soils with low oxygen availability in a moist tropical forest. *Journal of Geophysical Research: Biogeosciences*, p.e2022JG007210.
3. **Almaraz, M.**, P. M. Groffman, and S. Porder 2019. Effects of changes in nitrogen availability on nitrogen gas emissions in a tropical forest during a drought. *Journal of Geophysical Research Biogeosciences*, 124(9), pp.2917-2926.
4. Houlton, B., **M. Almaraz**, V. Aneja, A.T. Austin, E. Bai, K.G. Cassman, J.E. Compton, E.A. Davidson, J.W. Erisman, J.N. Galloway, B. Gu 2019. A world of co-benefits: Solving the global nitrogen challenge. *Earth's future*, 7(8), pp.865-872.

## SELECTED NON-AGU PUBLICATIONS

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1. Di Vittorio, A.V., M. Simmonds, A. Jones, W.L. Silver, B.Z. Houlton, M. Torn, **M. Almaraz**, P.

- Nico 2024. Soil management practices can contribute to net carbon neutrality in California. *Environmental Research Letters*, 19(6), p.064034.
2. **Almaraz, M.**, M. Simmonds, F. G. Boudinot, N. Bingham, D. S.D.S. Khalsa, S. Ostojka, K. Scow, A. Jones, I. Holzer, E. Manaigo, E. K. Geoghegan, H. Goertzen, W. L. Silver. Undervaluing soil carbon sequestration potential enables climate inaction. *Global Change Biology*.
  3. Terasaki Hart, D., S. Yeo, **M. Almaraz**, D. Beillouin, R. Cardinael, E. Garcia, S. Kay, S. Taylor Lovell, T. S. Rosenstock, S. Sprenkle-Hyppolite, F. Stolle, M. Suber, B. Thapa, S. Wood, S. Cook-Patton 2023. Priority science can accelerate agroforestry as a natural climate solution. *Nature Climate Change*, pp.1-12.
  4. **Almaraz, M.**, M. Simmonds, F. G. Boudinot, N. Bingham, D. S.D.S. Khalsa, S. Ostojka, K. Scow, A. Jones, I. Holzer, E. Manaigo, E. K. Geoghegan, H. Goertzen, W. L. Silver 2023. Soil carbon sequestration in global working lands as a gateway for negative emission technologies. *Global Change Biology*.
  5. **Almaraz, M.**, C. D. Kuempel, A. Salter, B. S. Halpern 2022. The impact of excessive protein consumption on human wastewater nitrogen loading of US waters. *Frontiers in Ecology and the Environment*, 20(8), pp.452-458.
  6. **Almaraz, M.**, M. Wong, E. Geoghegan, B. Z. Houlton 2021. A review of carbon farming impacts on nitrogen availability and losses. *Annals of the New York Academy of Sciences*, 1505(1), pp.102-117. (Invited paper).
  7. Moberg, E., Allison, E. H., H. Harl, T. Arbow, **M. Almaraz**, C. Scarborough, J. Dixon, T. Skinner, L. Van Rasmussen, A. Salter, B. S. Halpern 2021. Combined innovations in public policy, the private sector and culture can drive sustainability transitions in food systems. *Nature Food*, pp 1-9.
  8. **Almaraz, M.**, M. Wong, W. Yang 2020. Looking back to look ahead: A vision for soil denitrification research. *Ecology*, 101(1), p.e02917.
  9. **Almaraz, M.**, E. Bai, C. Wang, I. Faloon, J. Trousdell, S. Conley, B. Z. Houlton 2018. Extrapolation of point measurements and fertilizer-only emission factors cannot capture statewide soil NO<sub>x</sub> emissions. *Science Advances*, aau7373.
  10. **Almaraz, M.**, E. Bai, C. Wang, I. Faloon, J. Trousdell, S. Conley, B. Z. Houlton 2018. Agriculture is a major source of NO<sub>x</sub> pollution in California. *Science Advances*, 4(1), eaao3477.

### SELECTED AWARDS AND HONORS

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2022 National Center for Ecological Analysis and Synthesis Director's Scholarship (\$7,100)  
 2022 Princeton University Postdoctoral Initiative Program Fellowship (\$275,000)  
 2018 World Wildlife Fund Postdoctoral Fellow (\$113,978)  
 2016 National Science Foundation Biology Postdoctoral Fellow (\$138,000)  
 2015 National Science Foundation Doctoral Dissertation Improvement Grant Recipient (\$16,345)  
 2012 National Science Foundation Graduate Research Fellowship Program Honorable Mention

### PROFESSIONAL SOCIETIES

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American Geophysical Union  
 Ecological Society of America  
 New York Academy of Sciences  
 Society for Advancement of Chicanos/Hispanics and Native Americans in Science