

Corrie L. Monteverde

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Professional Goal

As a dedicated physical and social climate scientist with over 6 years of experience in spatial and temporal analysis, project and program management, science communication, leadership, and event planning, I aim to utilize these competencies to organize people and ideas to address critical issues surrounding climate and its impacts. I am seeking a senior role as a climate scientist where I can contribute to local and regional success in adapting to a changing environment through a holistic approach to climate science.

Education

- 2024 **Ph.D., Geography (Climate Science)**
San Diego State University, CA, USA
University of California Santa Barbara, CA, USA
Dissertation: *Climate Dynamics and Agricultural Adaptability in the Brazilian Amazon*
Advisors: Fernando de Sales [Chair], Amy Quandt, Trent Biggs, Charles Jones, Leila Carvalho
- 2019 **M.S., Geography (Watershed Science)**
San Diego State University, CA, USA
Thesis: *Climate change impacts on winegrowing regions in Southern California: From the perspective of a regional climate model*
Advisors: Fernando de Sales [Chair], Hillary McMillan, Ryan Abman
- 2016 **B.S., Physical Geography (Meteorology, Oceanography)**
University of California Santa Barbara, CA, USA
Undergraduate Thesis: *2016 Earth Day weekend: Analysis of environmental tweets for California*
Advisor: Dan Montello

Fellowships

- 2017 – 19 **NOAA-CESSRST Fellow**, San Diego State University, CA, USA
NOAA-CESSRST (National Oceanic and Atmospheric Administration – Center for Earth Systems and Remote Sensing Technologies) empowers students from under-represented groups to be the next generation of STEM professionals working to achieve a more “weather-ready nation” and greater resilience for people and habitats. Complete core competencies, attend conferences and webinars to strengthen skills and professional networks.

Publications

Peer-reviewed manuscripts published or in press

- 2022 **Monteverde, C.**, De Sales, F., Jones, C. (2022). Evaluation of the CMIP6 performance in simulating precipitation in the Amazon River Basin. MDPI Climate. <https://doi.org/10.3390/cli10080122>
- 2020 **Monteverde, C.**, De Sales, F. (2020). Impacts of Global Warming on Southern California's Winegrape Climate Suitability. *Advances in Climate Change Research*. <https://doi.org/10.1016/j.accr.2020.08.002>
- 2020 De Sales, F., Santiago, T., Biggs, T., Mullan, K., Sills, E., **Monteverde, C.** (2020). Impacts of Protected Area Deforestation on Dry-Season Regional Climate in Brazilian Amazon. *Journal of Geophysical Research: Atmospheres*. <https://doi.org/10.1029/2020JD033048>
- 2022 Quandt, A., Grafton, D., Gorman, K., Dawson, P., Ibarra, C., Mayes, E., **Monteverde, C.**, Piel, D., Paderes, P. (2022). Mitigation and Adaptation to Climate Change in San Diego County, California. *Mitigation and Adaptation Strategies for Global Change*. <https://doi.org/10.1007/s11027-022-10041-6>

Works Under Review

- In Review Zuniga, A., **Monteverde, C.**, Quandt, A. (In Review with AJEV 2024)
Winegrower Perceptions of Climate Change Impacts and Adaptive Capacity in Southern California, USA. *Climatic Change*.

Manuscripts Submitted

- In Progress **Monteverde, C.**, Quandt, A., Gilberto de Souza Riberio, J., De Sales, F. (Submitted to PLOS Climate 2024). Changing Climates, Changing Lives: Voices of Rondônia's Farming Community in a Time of Climate Crisis

Manuscripts in Preparation

- In Progress **Monteverde, C.**, De Sales, F. Risk in the Rainforest: Mapping the Impact of Unprotected Amazon Deforestation

Funding

Awarded on behalf of Recognized Student Organization

- 2019 – 23 **Student Success Fee[s]**, San Diego State University, CA, USA
Student Success Fee(s), 2019-2023 Details: As President of GGSA, helped secure over \$250,000 for student events

Service

President & Co-founder

2019 – 24 *Geography Graduate Student Association, San Diego State University*
Lead department's graduate association, consisting of 30 officers over 5 years, and oversee awards culminating in \$250,000 for academic and professional events (ggsa.sdsu.edu). Skilled in the design, implementation, and management of organizational proposals, projects, and events. Build relationships, set vision, and align the team's deliverables with the organization's mission.

Climate Symposium Organizer

2021 – 24 *Geography Graduate Student Association Climate Symposium, San Diego State University*
This mission focuses on bringing together climate scientists and Indigenous leaders and traditional practitioners to provide much-needed perspectives, practices, and wisdom--and the associated challenges Indigenous communities may be facing--related to colonial- and industrial-induced climate change through virtual, hybrid, in-person symposiums, and film screening gatherings.

Spring, 2021 *Climate Science from Different Perspectives* (<https://ggsa.sdsu.edu/ggsas-2021-virtual-climate-talks/>)

Spring, 2022 *Indigenous Wisdom and Perspectives on Colonial and Industrial-Induced Climate Change* (<https://ggsa.sdsu.edu/2022-climate-talks/>)

Spring, 2023 *Native Climate Sciences: (Re)turning the Gaze on Invasive Species of Thought* (<https://ggsa.sdsu.edu/2023-climate-talks/>)

Spring, 2024 *People of Red Mountain Film Screening* (<https://ggsa.sdsu.edu/2024-climate-talks/>)

Young Scholars Director

2023 – *American Association of Geographers Climate Specialty Group, USA*
The purpose of the CSG is to encourage climate research and promotes climate education. Responsible for the CSG Newsletter, social media communication, and promotion of CSG happenings. (<https://sites.google.com/view/aag-climate/home?authuser=0>)

Chair

2022 – 23 *Applied Climatology Conference Co-Chair, American Meteorological Society Annual Meeting, USA*

Committee Member

2020 – 23 *Applied Climatology Committee, American Meteorological Society Annual Meeting, USA*

PhD Representative

2021 – 22 *Department of Geography, San Diego State University*
Represent doctoral students and be the 'voice' to the department.

Student Representative

2022 *Council of Graduate Schools, San Diego State University*
Selected to represent San Diego State University College of Arts and Letters in a University-wide audit.

Research and Funding Peer

2018 – 20 *Department of Geography, San Diego State University*
Specialized in identifying and securing grants and fellowships, and resources for research initiatives and academic pursuits.

Moderator, Host

2021 – 24 **Host:** *Climate Talks – San Diego State University, CA, USA*

2020 – 22 **Moderator:** *Alumni Panel – Department of Geography, San Diego State University, CA, USA*

2021 **Moderator:** *Non-Academic Career Paths for Geography PhDs – American Association of Geographers, USA*

Professional Memberships

6 Years American Association of Geographers
6 Years American Meteorological Society
3 Years American Geophysical Union
3 Years California Geographical Society

Media Contribution

Co-producer of short film

2023 – 24 *Geography Graduate Student Association, San Diego State University*
Led the co-production of a short film focused on lithium mining on sacred indigenous lands of the People of Red Mountain (<https://youtu.be/B7qaMt0utd8>)

Teaching

Courses Taught as Instructor of Record

Fall 2023 **Geography 101 – Earth’s Physical Environment (Lecture)**
San Diego State University, CA, USA

Fall 2022 **Geography 101 – Earth’s Physical Environment (Lecture)**
San Diego State University, CA, USA

Doctoral Teaching Associate

2019 – 24 **Department of Geography, San Diego State University, CA, USA**
Courses Assisted: *Biophysical Modeling; Weather and Climate; Global Climate Change.*

Graduate Research Assistant

2017 – 19 **Department of Geography, San Diego State University, CA, USA**

Courses Assisted: *Nature, Power, & Society; Global Climate Change; Environmental Hydrology; World Regional Geography; People, Places, Environment; Earth's Physical Environment.*

Awards

- 2024 **2022 Best Paper Award**, Climate, '*Evaluation of the CMIP6 Performance in Simulating Precipitation in the Amazon River Basin*'
- 2022 **Pitt and Virginia Warner College of Arts and Letters Endowed Scholarship**, San Diego State University, CA, USA
- 2022 **McFarland Geography Scholarship**, Department of Geography, San Diego State University, CA, USA
- 2021 - 24 **American Meteorological Society Student Travel Grant**, Boston, MA, USA
- 2021 **Citizenship Award**, Department of Geography, San Diego State University, CA, USA
- 2021 **McFarland Geography Scholarship**, Department of Geography, San Diego State University, CA, USA
- 2020 - 23 **Graduate Student Travel Fund**, San Diego State University, CA, USA
- 2020 **NOAA-CESSRST Travel Grant**, Maryland, USA
- 2019 **Best Student of the Year: Outstanding Academic Excellence**, Annual NOAA-CESSRST Day, Maryland, USA
- 2019 **Lauren Post Award for Academic Excellence**, First annual Geography Departmental Award, San Diego State University, CA, USA
- 2018 **Provost's Award: Arts and Letters**, Student Research Symposium, San Diego State University, CA, USA

Presentations

Research Presentations

- 2024 **American Meteorological Society Annual Meeting: Future Winegrape Crop Suitability in Southern California and Winegrower's Perceptions of Climate Change Impacts – USA**
- 2024 **American Association of Geographers Annual Meeting: Linking Changes in Brazilian Amazon Climate Regimes to Farmer Livelihoods: A Holistic Climate Science Perspective – USA**

- 2023 **American Association of Geographers Annual Meeting:** *Climatic consequences of unprotected area deforestation in the Legal Amazon – USA*
- 2023 **American Meteorological Society Annual Meeting:** *Climatic Consequences of Unprotected Area Deforestation in the Legal Amazon – USA*
- 2021 **American Geophysical Union Fall Meeting:** *The Ability of CMIP6 Models to Simulate 34-years of precipitation over the Brazilian Amazon – USA*
- 2022 **Student Research Symposium:** *Brazilian Amazon Deforestation Impact on Dry Season Climate – San Diego State University, CA, USA*
- 2022 **American Meteorological Society Annual Meeting:** *Impacts of Global Warming on Southern California's Winegrape Climate Suitability – USA*
- 2021 **Student Research Symposium:** *Impacts of Global Warming on Southern California's Winegrape Climate Suitability – San Diego State University, CA, USA*
- 2020 **University of California Santa Barbara Climate Talks:** *Impacts of Global Warming on Southern California's Winegrape Climate Suitability – USA*
- 2020 **American Geophysical Union Fall Meeting:** *Impacts of Global Warming on Southern California's Winegrape Climate Suitability – USA*
- 2019 **United States Geological Survey and San Diego State University Careers Workshop:** *Impacts of Global Warming on Southern California's Winegrape Climate Suitability – San Diego, CA, USA*
- 2019 **RE:BORDER Binational Conference:** *Impacts of Global Warming on Southern California's Winegrape Climate Suitability – San Diego, CA, USA*
- 2019 **Student Research Symposium:** *Climate Change Impacts on Winegrowing Regions in Southern California: From the Perspective of a Regional Climate Model – San Diego State University, CA, USA*
- 2019 **American Association of Geographers Annual Meeting:** *Impacts of Global Warming on Southern California's Winegrape Climate Suitability – USA*
- 2018 **Student Research Symposium:** *Winegrape Suitability for Southern California and Guadalupe Valley from the Perspective of a Regional Climate Model – San Diego State University, CA, USA*

Guest Lectures

- 2020 **Guest Lecture:** *Climate Change: Basics and Common Misconceptions – Department of Geography, San Diego State University, CA, USA*
- 2018 **Guest Lecture:** *Soils – Department of Geography, San Diego State University, CA, USA*

2018 **Guest Lecture: *Weathering and Erosion*** – Department of Geography, San Diego State University, CA, USA

Other Professional and Relevant Experience

- 2024 **Research Assistant, 2024, Southern Border Coalition, USA**
The Southern Border Coalition's workshops aim to unite Native American tribes, environmental justice organizations, and various community stakeholders to engage in community-led discussions and collaborative research. These workshops are part of California's California Jobs First initiative, focusing on developing equitable economic development plans that enhance long-term economic resilience while addressing climate change in San Diego and Imperial Counties.
- 5 Years **Researcher, 2019 - 24, Connections Between Water and Rural Production, USA**
The mission is to understand how changes in water availability impact human welfare and the land and resource decisions of small-scale farmers in the Brazilian Amazon, and how the responses of these farmers shape the regional climate and water resources.

Researcher page:
<https://www.waterproductionconnections.hs.umt.edu/post/perfil-da-pesquisadora-corrie-monteverde>
- 1 Year **National Weather Service Intern, 2018, San Diego National Weather Service Office, San Diego, CA, USA**
Research: Performance assessment of MODIS satellite evapotranspiration data validated with Eddy Covariance Tower data.
Mentor: Alex Tary

Skills

Research Skills

- Regional Climate Modeling (WRF; ERA5 data; CMIP data)
- Survey & interview development and collection (local and international) (Qualtrics)
- International research with a focus on the Amazon rainforest
- Regional research with a focus on applied climatology, winegrape production, and adaptation in southern California
- Special interest in Indigenous relations and engagement

Data Analysis

- Spatiotemporal analysis and visualization of large climate datasets

Technical Proficiency

- MATLAB
- ArcGIS Pro

- Linux-operating system (NCAR CASPER & CHEYENNE)
- Familiarity with R
- Familiarity with GrADS

Communication and Engagement

- Effective communication through university-level teaching, hosting symposiums, and moderating for national organizations
- Alumni and community engagement
- Content creation via Canva (newsletters, blogs, LinkedIn articles, infographics)

Digital Skills

- Web design (WordPress; Wix)

Project and Collaboration

- Project management
- Multi-disciplinary collaboration
- Strategic and creative thinking
- Mentorship

Compliance and Ethics

- CITI certifications (RCR; Human Subjects; Social Behavioral; IPS)

Professional Coverage

2023	<p><i>San Diego Union-Tribune Opinion: Here are three target areas where San Diego can step up to fight climate change</i></p> <p>(https://www.sandiegouniontribune.com/opinion/commentary/story/2023-02-10/opinion-here-are-three-target-areas-where-san-diego-can-step-up-to-fight-climate-change)</p>
2022	<p><i>Vines & Wines: Ramona’s grape growers help SDSU researchers study impact of climate change on vineyards</i></p> <p>(https://www.sandiegouniontribune.com/ramona-sentinel/news/story/2022-10-18/vines-wines-ramonas-grape-growers-help-sdsu-researchers-study-climate-changes-impact-on-vineyards)</p>

References

References available upon request