

FRANCISCA N. SANTANA, PH.D.

Postdoctoral Research Fellow, University of Michigan

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EDUCATION

- 2022 Ph.D. in Environment and Resources, Stanford University
Dissertation: "Together in changing places: The role of social and affective dimensions in conservation and adaptation behavior"
- 2014 M.S. Environmental Science and Management, University of California, Santa Barbara
Thesis: "A best practices guide for climate action plan implementation in California"
- 2006 B.A. History, Yale University
Thesis: "The last flicker of the red light district in San Francisco: The politics of prostitution in the Progressive Era"

ACADEMIC POSITIONS

- Present Postdoctoral Research Fellow, Western Forest and Fire Initiative, School of Environment and Sustainability
University of Michigan, Ann Arbor
- Affiliate Assistant Professor, School of Environmental and Forest Sciences, College of the Environment
University of Washington, Seattle

RESEARCH AREAS

Climate adaptation; conservation and social psychology; environmental sociology; natural hazards; environmental justice; community-based and participatory research methods; knowledge co-production.

PEER-REVIEWED ARTICLES

- Santana, F.N.**, Yurkanin, A., Stark, T.E., Lindsey, E., Ardoin, N.M., and Wong-Parodi, G. (2023). Mālama i ke kai: Exploring psychosocial factors associated with personal and community coral reef conservation behavior on Maui, Hawai'i. *Conservation Science and Practice*, e13002. <https://doi.org/10.1111/csp2.13002>
- Santana, F.N.**, Gonzalez, D. J. X., and Wong-Parodi, G. (2021). Psychological factors and social processes influencing wildfire smoke protective behavior: Insights from a case study in Northern California. *Climate Risk Management*, 34, 100351. <https://doi.org/10.1016/j.crm.2021.100351>
- Santana, F.N.**, Wagner, C.H., Berlin, N.R., Bloomfield, L.S.P., Bower, E.R., Fischer, S.L., Santos, B.S., Smith, G.E., Muraida, C.T., and Wong-Parodi, G. (2021). A path forward for qualitative research on sustainability in the COVID-19 pandemic. *Sustainability Science*, 1-7. <https://doi.org/10.1007/s11625-020-00894-8>
- Green, K.M., Selgrath, J., Frawley, T., Oestreich, W., Mansfield, E., Urteaga, J., Swanson, S., **Santana, F.N.**, Green, S., Naggea, J., and Crowder, L.B. (2021). How adaptive capacity shapes the Adapt, React, Cope response to climate impacts: Insights from small-scale fisheries. *Climatic Change*, 164(15). <https://doi.org/10.1007/s10584-021-02965-w>

Santana, F.N., Fischer, S.L., Jaeger, M.O., and Wong-Parodi, G. (2020). Responding to simultaneous crises: Communications and social norms of mask behavior during wildfires and COVID-19. *Environmental Research Letters*, 15(11), 111002. <https://doi.org/10.1088/1748-9326/abba55>

IN REVIEW

Santana, F.N., Herbert, N., and Wong-Parodi, G. Descriptive social norms, social support, and behavioral response to climate-related and co-occurring health hazards. (In review)

IN PREP

Santana, F.N., Ferguson, C.E., Naggea, J., de Rosney, A., Lindsey, E., Singeo, A., Stark, T., and Yurkanin, A. Six practices for justice-oriented survey co-production in conservation social science.

Fischer, S.L., **Santana, F.N.**, Mi, J.Z., and Wong-Parodi, G. The role of institutions in adaptive coping during compound climate change-related threats.

Santana, F.N., Jaeger, M.O., and Ardoin, N.M. Place attachment in the Anthropocene: A review and synthesis of literature relating “place” to environmental behavior.

OTHER PUBLICATIONS

Santana, F.N., Qin, Y., Rivers, S., and Roecks, J. (2014). Local government Climate Action Plan implementation in California. Bren School of Environmental Science and Management, Santa Barbara, CA. (Graduate thesis, equal authorship)

Santana, F.N. (2008, December 31) Opinion: Car makers should be forced to meet higher fuel standards. The San Jose Mercury News.

RESEARCH FUNDING

Weather Ready Research Award Program, Natural Hazards Center at University of Colorado Boulder with support of the National Science Foundation

(PI: Francisca Santana)

Grant amount: \$7,500

Dates: 02/6/23 – 08/6/23

Title: Understanding behavioral adaptation to compound wildfire hazards in Northern California

Role: Research Lead

Gulf Research Program, The National Academies of Sciences

(PI: Matthew Bethel)

Grant amount: \$99,999

Dates: 10/15/22 – 05/14/23

Title: Planning for a nature-based solutions approach to the Pointe-au-Chien Tribe’s climate change adaptation efforts

Role: Graduate Researcher

AWARDS AND FELLOWSHIPS

2021 Gerald L. Lieberman Fellowship, Vice Provost of Graduate Education (\$63,764)

2020 Ecological Risk Assessment Specialty Group Merit Award, Society for Risk Analysis

2020 E-IPER Summer Research Grant (\$3950)

2019 Diversity Dissertation Research Opportunity, Vice Provost of Graduate Education (\$3000)
 2019 Community Engagement Grant, Office of Community Engagement (\$3500)
 2019 E-IPER Summer Research Grant (\$3000)
 2018 McGee Levorson Research Fellowship (\$2250)
 2018 E-IPER Summer Research Grant (\$3000)
 2017 McGee Levorson Research Fellowship (\$2250)
 2017 E-IPER Summer Research Grant (\$3000)
 2017 Haas Graduate Public Service Fellowship
 2016 Enhancing Diversity in Graduate Education (EDGE) Fellowship (\$6000)
 2014 UCSB Outstanding Teaching Assistant Nomination
 2013 Bren School Summer Internship Fellowship (\$6000)
 2005 Richter Summer Research Award for Historical Study (\$6000)

CONFERENCE PRESENTATIONS

2023 **Santana, F.N.**, Huber-Stearns, H., Bell, S.A., French, N.H.F., and Fischer, P. Understanding behavioral adaptation to compound wildfire threats in Northern California (Oral presentation). American Association of Geographers Annual Meeting, Denver, CO, March 23-27.

2022 **Santana, F.N.**, Herbert, N., and Wong-Parodi, G. Social norms and social support shape wildfire smoke and COVID-19 adaptation behavior (Oral presentation). Natural Hazards Workshop, University of Colorado, Virtual, July 13-14.

2021 **Santana, F.N.**, Herbert, N., and Wong-Parodi, G. Social norms and social support shape wildfire smoke and COVID-19 adaptation decision-making (Oral presentation). Society for Risk Analysis Annual Meeting, Virtual, December 5-9.

2020 **Santana, F.N.**, Yurkanin, A., Lindsey, E., and Stark, T. Reefs at risk: Perceptions of coral reef health and pro-environmental behavior among coastal users in West Maui, Hawai'i (Oral presentation). Society for Risk Analysis Annual Meeting, Virtual, December 14-17.

2020 **Santana, F.N.**, Gonzalez, D.J.X. and Wong-Parodi, G. Investigating protective health decision-making in response to wildfire smoke in California (Oral presentation). Society for Risk Analysis Annual Meeting, Virtual, December 14-17.

2020 **Santana, F.N.**, Yurkanin, A., Lindsey, E., and Stark, T. Actions for future abundance: Perceptions of coral reef health and pro-environmental behavior among coastal users in West Maui, Hawai'i (Oral presentation). Hawai'i Conservation Conference, Virtual, September 1-3.

2020 **Santana, F.N.**, Yurkanin, A., Lindsey, E., and Stark, T. Investigating perceptions of coral reef health and pro-environmental behavior among coastal users in West Maui, Hawai'i (Oral presentation). International Marine Conservation Conference, Virtual, August 17-28.

2020 **Santana, F.N.**, Wong-Parodi, G., and Gonzalez, D.J.X. Investigating protective health decision-making in response to wildfire smoke in California (Oral presentation). International Smoke Symposium, Virtual, April 20-24.

INVITED TALKS

- 2023 Opportunities and considerations for ethical and decolonial community engaged research. Engagement for Impact with Prof. Lisa DuRussel, University of Michigan, Ann Arbor, MI / Virtual, March 6.
- 2022 Conducting rural fieldwork. Panel participant. Rural America Rackham Interdisciplinary Workshop, University of Michigan, Ann Arbor, MI / Virtual, November 17.
- 2022 Changing climates: Equity and adaptation in a warming world. Panel participant. Natural Hazards Workshop, University of Colorado, Virtual, July 13-14.
- 2022 How social processes shape pro-environmental and adaptation behavior. College of Agriculture and Life Sciences Dean's Inclusive Excellence Seminar Series, Cornell University, Virtual, February 22.
- 2020 Who pledges to protect the ocean? The role of place attachment in motivating voluntary commitments and support for conservation among coastal users in West Maui, HI. Ridge to Reef Rendez-VIEW Seminar, West Maui Ridge to Reef Initiative, Virtual, October 29.
- 2020 Beachgoers' perceptions of their role in protecting coral reefs. Maui Nui Marine Resource Council Community Webinar, Virtual, August 5.
- 2020 Together in a changing place: Stories of mobility and coastal change in southeastern Louisiana. Environmental Justice with Prof. Michelle Anderson, Stanford, CA, February 17.
- 2020 Fire drill: How Californians react to smoke from wildfires. Hard Earth: California Catastrophes, Stanford, CA, January 7.

TEACHING EXPERIENCE

Stanford University

Co-developer and Co-instructor, Shades of Green: Exploring and Expanding Environmental Justice in Practice (EARTHSYS 125/225), undergraduate, 3-4 units, Spring 2021.

Co-developer and Co-instructor, The Social Ocean: Human Dimensions of Marine Conservation (ENVRES 220), upper-level undergraduate and graduate, 2 units, Spring 2018 & Spring 2019.

Teaching Assistant, Qualitative Interviewing (EDUC 450C), 3 units, graduate, Winter 2018.

University of California, Santa Barbara

Teaching Assistant, Introduction to Environmental Studies (ES 1), 4 units, introductory undergraduate, Fall 2012 & Fall 2013.

Teaching Assistant, The Ethics of Human Environment Relations (ES 188), 4 units, upper-division undergraduate, Winter 2013.

Teaching Assistant, Introduction to Social and Cultural Environments (ES 3), 4 units, introductory undergraduate, Spring 2013 & Spring 2014.

ACADEMIC SERVICE

Peer Reviewer, International Journal of Disaster Risk Reduction (2022-present)
Peer Reviewer, Global Environmental Change (2022)
Mentor, Cal State University Monterey Bay, REU Program (2021)
Peer Reviewer, Journal of Environmental Studies and Sciences (2021)
Mentor, Stanford Undergraduate Women in Science (2019-2021)
Member, E-IPER Diversity, Equity, and Inclusion Committee (2020-2022)
Mentor, Stanford STEM Fellows (2019-2020)
Graduate Teaching Mentor, Vice Provost for Teaching and Learning (VPTL) Department (2018-2019)
Student Representative, E-IPER Executive Committee (2018-2019)
Stanford Campus Liaison, Monterey Area Research Institutions' Network for Education (2017-2018)
Coordinator, E-IPER Weekly Research Seminar (2017-2018)
Tutor, EPA Tutoring and Tennis Project (2017-2018)

PROFESSIONAL AFFILIATIONS

Member, American Association of Geographers (2021-present)
Member, Society for Conservation Biology (2019-present)
Member, Society for Risk Analysis (2019-present)

OTHER RESEARCH AND PROFESSIONAL EXPERIENCE

Research Consultant (2022-present)
Graduate Research Scholar (2019-2022)
Project Title: "Developing a Coastal Resilience Index for use with Indigenous communities in the Gulf of Mexico region to support coastal hazard preparedness."
Louisiana Sea Grant, Louisiana State University, Baton Rouge, LA / remote

Research Analyst, Office of the Chief Scientist (2015)
Environmental Defense Fund, San Francisco, CA

Design Trainee, Stormwater Planning Division (2014-2015)
San Francisco Public Utilities Commission, San Francisco, CA

Research and Policy Summer Intern, National Ocean Council (2013)
White House Council on Environmental Quality (CEQ), Washington, D.C.

Senior Program Associate, Transportation (2011-2012)
Program Associate, Transportation (2009-2011)
Energy Foundation, San Francisco, CA

Climate Associate (2008-2009)
Center for Biological Diversity, San Francisco, CA

Litigation Assistant (2007-2008)
Earthjustice, Washington, D.C.

Interpretive Ranger, Lake Clark National Park and Preserve (2006)
Student Conservation Association / National Park Service, Port Alsworth, AK