

## FRANCISCA N. SANTANA, PH.D.

School of Environmental and Forest Sciences  
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### EDUCATION

- 2022 Ph.D. Environment and Resources  
Emmett Interdisciplinary Program 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,  
Bren School of 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

- 2023- Assistant Professor, School of Environmental and Forest Sciences  
College of the Environment, University of Washington, Seattle
- 2022-2023 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 and resilience; conservation and social psychology; environmental sociology; hazards and disasters; environmental justice; qualitative methods; community-based and participatory research methods; knowledge co-production.

### PEER-REVIEWED PUBLICATIONS

**Santana, F.N.**, Herbert, N., & Wong-Parodi, G. (2024). Descriptive social norms, social support, and behavioral response to climate-related and co-occurring health hazards. *Journal of Risk Research*, 27(1), 138–165. <https://doi.org/10.1080/13669877.2024.2315997>

**Santana, F.N.**, Yurkanin, A., Stark, T.E., Lindsey, E., Ardoin, N.M., & 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., & 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., & 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., & 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., & 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>

## UNDER REVIEW

**Santana, F.N.**, Ferguson, C.E., Naggea, J., Singeo, A., Lindsey, E., Yurkanin, A., Stark, T., & de Rosney, A. Five practices for ethical and effective community-based survey co-development in conservation social science. (Submitted)

## IN PREPARATION

**Santana, F.N.**, Huber-Stearns, H., Bell, S.A., French, N.H.F., & Fischer, A.P. A typology of interactions from compound wildfire hazard impacts and responses: Insights from a multi-site case study in Northern California, U.S.A.

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

## OTHER PUBLICATIONS

**Santana, F.N.**, Qin, Y., Rivers, S., & 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

*Interdisciplinary Research in Earth Science (IDS), National Air and Space Administration (NASA), \$1,597,646*  
Co-Investigator. "Informing human risk perception of and response to wildland fire smoke using new satellite-derived extreme smoke event data." (11/01/23-10/31/26).

*Gulf Research Program, National Academies of Sciences, \$708,308*  
Co-Principal Investigator. "A living shoreline design approach supporting the Pointe-au-Chien Indian Tribe's climate adaptation efforts." (11/01/23-4/30/25).

*Weather Ready Research Award Program, Natural Hazards Center at University of Colorado Boulder with support of the National Science Foundation, \$7,500*  
Principal Investigator. "Understanding behavioral adaptation to compound wildfire hazards in Northern California." (02/6/23 – 08/6/23).

*Gulf Research Program, National Academies of Sciences, \$99,999*

Post-Graduate Researcher. "Planning for a nature-based solutions approach to the Pointe-au-Chien Tribe's climate change adaptation efforts." (10/15/22 – 05/14/23).

## 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

2024	<b>Santana, F.N.</b> , Huber-Stearns, H., and Fischer, P. Understanding individual-level impacts and responses to compounding wildfire-related hazards in Northern California, U.S.A. ( <i>Oral presentation</i> ). American Association of Geographers Annual Meeting, Honolulu, HI, Apr 16-20.
2023	<b>Santana, F.N.</b> , Huber-Stearns, H., and Fischer, P. Understanding behavioral adaptation to compound and cascading wildfire hazards in Northern California (Oral presentation). International Fire Ecology and Management Congress, Monterey, CA, Dec 4-8.
2023	<b>Santana, F.N.</b> , 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, Mar 23-27.
2022	<b>Santana, F.N.</b> , 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, Jul 13-14.
2021	<b>Santana, F.N.</b> , 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, Dec 5-9.
2020	<b>Santana, F.N.</b> , 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, Dec 14-17.
2020	<b>Santana, F.N.</b> , 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, Dec 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, Sept 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, Aug 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, Apr 20-24.

## TALKS

- 2024 Exploring the social and affective dimensions of conservation and adaptation behavior. Principles of Sustainability with Prof. Lisa J. Graumlich, University of Washington, Seattle, WA, Mar 5.
- 2023 Understanding human response to wildfire-related hazards. School of Environmental and Forest Sciences Seminar Series, University of Washington, Seattle, WA, Nov 29.
- 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, Mar 6.
- 2022 Conducting rural fieldwork. Panel participant. Rural America Rackham Interdisciplinary Workshop, University of Michigan, Ann Arbor, MI / Virtual, Nov 17.
- 2022 Changing climates: Equity and adaptation in a warming world. Panel participant. Natural Hazards Workshop, University of Colorado, Virtual, Jul 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, Feb 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, Oct 29.
- 2020 Beachgoers' perceptions of their role in protecting coral reefs. Maui Nui Marine Resource Council Community Webinar, Virtual, Aug 5.
- 2020 Together in a changing place: Stories of mobility and coastal change in southeastern Louisiana. Environmental Justice with Prof. Michelle Anderson, Stanford, CA, Feb 17.
- 2020 Fire drill: How Californians react to smoke from wildfires. Hard Earth: California Catastrophes, Stanford, CA, Jan 7.

## **TEACHING EXPERIENCE**

### ***University of Washington***

Instructor, Social Science Research Methods (SEFS 504), graduate, 4 units, Spring 2024.

### ***University of Washington***

Instructor, Environmental Sociology (ESRM 371/ENVIR 379/SOC 379), undergraduate, 5 units, Winter 2024.

### ***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

Peer Reviewer, Global Environmental Change

Peer Reviewer, Journal of Environmental Studies and Sciences

Committee Member, UW SEFS Research Committee (2023-present)

Mentor, Cal State University Monterey Bay, REU Program (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)

“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*