

# Claudia Frances Herbert

Curriculum Vitae

Updated on April 27, 2021

## Education

- 2022 University of California, Berkeley (*expected graduation year*)  
Ph.D., Environmental Science, Policy, and Management (ABD)  
Dissertation Topic: Effect of Elevated Carbon Dioxide on Vegetation and Wildfire in California's Arid Forest Ecosystems  
Chair: Van Butsic  
Committee: Scott Stephens
- 2018 University of California, Berkeley  
B.S., Conservation Resource Studies  
B.S., Society and Environment (Honors)  
Minors: Forestry, Public Policy, Geospatial Information Science and Technology

## Research Experience

- 2019 Graduate Student Researcher, NASA DEVELOP.  
Designed and executed a sensor feasibility study for Landsat 5 Thematic Mapper (TM), Landsat 7 Enhanced Thematic Mapper Plus (ETM+), and Landsat 8 Operational Land Imager (OLI) to detect land disturbance caused by coal mining in Wyoming's Powder River Basin.
- 2018 Summer Research Intern, Public Policy Institute of California.  
Conducted a literature review of over 160 peer-reviewed papers and outlined focus areas for the center's upcoming publication on headwater forest management, culminating in a presentation of synthesis findings to over 50 PPIC employees.

## Publications

- In Progress* "Policy Options for Deep Decarbonization and Wood Utilization in California's Low Carbon Fuel Standard." Accepted *Frontiers in Climate: Focus on Negative Emissions*, 2020. Daniel Sanchez, Kevin Fingerman, **Claudia Herbert**, Sam Uden.
- "Daylighting Oakland." *BayGeo Journal*. Fall 2016. **Claudia Herbert**.

## Grants and Fellowships

- 2018 Environmental Science, Policy, and Management Starter Grant (\$1,500)

## Awards and Honors

- 2019 Honorable Mention, National Science Foundation Graduate Research Fellowship Program.
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- 2018 Departmental Citation, Environmental Science, Policy, and Management, University of California, Berkeley

## Popular Writing

- 2020 "Carbon offsets burning" Claudia Herbert, Jared Stapp, Grayson Badgley, William R L Angeregg, Carbon Plan Team. August 2020, Carbon Plan, Research Blog.

- 2018 "Managing Forests to Reduce Wildfire Risks." Henry McCann, Van Butsic, Claudia Herbert. August 2018, Public Policy Institute of California, Blog.
- 2018 "How Wildfires Affect California's Water Supply." Henry McCann, Jeffery Mount, Claudia Herbert. July 2018, Public Policy Institute of California, Blog.

## **Research Presentations**

- 2020 "Forest Carbon Offsets: Overview, Challenges, & Opportunities?" Invited Guest Lecture, November 2020, Berlin Institute of Technology, Remote.
- 2019 "Monitoring Land Change from Resource Extraction Using Long-term Time Series Remote Sensing Data in Wyoming's Powder River Basin." Presentation, December 2019; American Geophysical Union Annual Conference in San Francisco, CA.
- 2018 "Relationship between low-density urban development and fuel loading in Northern California." Presentation, April 2018; American Association of Geographers Annual Conference in New Orleans, LA.
- 2018 "Water funding forest management: Evaluating the potential for increased runoff to manage forests." Presentation, August 2018, Public Policy Institute of California, San Francisco, CA.
- 2017 "The Fragmented Process of Regulating Hydraulic Fracturing in the United States." Presentation, September 2017, Presented at the Energy and Policy Research Conference in Park City, UT.

## **Teaching Experience**

- 2020 Graduate Student Instructor, Fall Semester, Remote Sensing of the Environment, Environmental Science, Policy, and Management, UC Berkeley
- 2019 Graduate Student Instructor, Spring Semester, Introduction to Geospatial Information Systems, Environmental Science, Policy, and Management, UC Berkeley

## **University Service**

- 2020- ESPM Buddy Mentorship Program
- 2019-2020 President, Student Association Fire Ecology
- 2019-2020 Treasurer, Berkeley Water Group

## **Extra Training**

- 2020 SESYNC Graduate Leaders in Socioenvironmental Synthesis Workshop. Funded by the National Science Foundation.

## **Community Involvement**

- 2020 Volunteer, Student Association of Fire Ecology. Teaching Skyline High School chemistry classes about forest fire dynamics using burn boards.
- 2019 Volunteer, METAS. Teaching 4<sup>th</sup> and 5<sup>th</sup> graders methods of field observation
- 2018 Volunteer, WYSE. Curriculum-based mentoring of middle school young women centered on reproductive health.