CLAUDIA FRANCES HERBERT

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EDUCATION

University of California, Berkeley | Ph.D. *August 2018 – Present*
Environmental Science, Policy, and Management | GPA: 4.0

University of California, Berkeley | Bachelor of Science *Class of 2018*
Conservation Resource Studies, B.S.; Society and Environment, B.S. | GPA: 3.94 | Departmental Citation
Minors: Forestry and Natural Resources, Public Policy, Geospatial Information Sciences and Technology

Universidad de Belgrano, Buenos Aires, Argentina | Beginner and Intermediate Level Spanish *Summer 2015*

RESEARCH EXPERIENCE

Environmental Science, Policy, and Management | Graduate Student Researcher | UC Berkeley *Fall 2019-Present*
- Researcher on a team of three academics and five Cooperative Extension Specialists working to establish a geospatial relationship between cattle grazing and wildfire. Contributing to the GIS and remote sensing components

NASA DEVELOP | Graduate Student Researcher | Ames Research Center, Mountain View, CA *Summer 2019*
- Worked with three other researchers to design and execute 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
- Developed a Graphical User Interface using Google Earth Engine for tracking coal mining land disturbance in Wyoming; applying mathematical transformations of satellite imagery and the LandTrendr Algorithm to quantify and visualize land change over time; Tool is currently submitted for NASA software release and will be available on our webpage (*https://develop.larc.nasa.gov/2019/Summer/PowderRiverBasinTI.html*)

Environmental Science, Policy, and Management | Graduate Student Instructor | UC Berkeley *Spring 2019*
- Planned and taught 12 three-hour labs to two sections of 45 students for the ESPM department's Introduction to Geospatial Information Systems covering ESRI's Arc Map and Pro, Google Earth Pro, and QGIS (20 hours/week)

Public Policy Institute of California | Summer Research Intern | San Francisco, CA *Summer 2018*
- Conducted a literature review of over 160 peer-reviewed papers and outlined focus areas for the center's upcoming publication on headwater forest management (40 hours/week)
- Presented synthesis findings to over 50 PPIC employees at the end of the term
- Contributed to the PPIC Water Blog articles "**Managing Forests to Reduce Wildfire Risks**" (*https://www.ppic.org/blog/managing-forests-to-reduce-wildfire-risks/*) and "**How Wildfires Affect California's Water Supply**" (*https://www.ppic.org/blog/how-wildfires-affect-californias-water-supply/)*

College of Natural Resources| Undergraduate Researcher | Berkeley, CA *2016-2017*
- Conducted research ranging from the viability of bioremediation in soils contaminated with arsenic at local field sites in Professor Celine Pallud's lab (5 hour/week), farmer's willingness-to-pay for weather stations data with Professor David Zilberman (5 hours/week), to researching risk assessments for nanotech and nuclear engineering for Dr. Jane A. Flegal's dissertation on geoengineering (10 hours/week)
- Completed independent College Honor's Thesis assessing domestic Hydraulic Fracturing policy (Fall 2016- Spring 2017) (15 hours/week)

PROJECTS

"Impact of biophysical features on riparian fire ecology." *Forthcoming*

"Relationship between low-density urban development and fuel loading in Northern California." *April 2018*
- Presented at the American Association of Geographers in Spring 2018 in New Orleans, LA

"The Fragmented Process of Regulating Hydraulic Fracturing in the United States." *Fall 2017*
- Shared at the Energy and Policy Research Conference in Park City, UT

"No Reverse Gear." Dan Becker and Jim Gerstenzang, *Environmental Law Institute.* *Spring 2017*
- Contributed to the Safe Climate Campaign's review of fuel economy standards

SKILLS & INTERESTS

- ESRI's Arc Map and Pro (Advanced)
- RStudio (Intermediate)
- Google Earth Engine (Intermediate)
- Python (pandas, numpy), JavaScript (Intermediate)
- Berkeley Water Group (Treasurer); Student Association of Fire Ecology (President)
- Camping; Travel, Mapping