

ANNA BOSER

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EDUCATION

University of California, Santa Barbara | Santa Barbara, California

September 2020–Present

PhD, Environmental Sciences and Management; Advisors Ashley Larsen and Kelly Caylor

University of California, Berkeley | Berkeley, California

May 2020

Bachelor of Arts in Statistics

GPA: 4.00

University Medal: Awarded to the most distinguished graduating senior

RESEARCH EXPERIENCE

Marshall Space Flight Center, NASA | Huntsville, Alabama

June 2020–August 2020

Research intern with the CAARE program under Dr. Mohammad Al-Hamdan.

- o Developed statistical and machine learning models to use remotely sensed aerosol optical depth (AOD) and other publically available data to estimate fine particulate matter at ground level in the San Francisco Bay Area

College of Natural Resources, UC Berkeley | Berkeley, California

May 2019–May 2020

Research assistant under Professor Matthew Potts.

- o Used a combination of spatial datasets on fire perimeters, remotely sensed plumes, and ground level particulate matter estimates to analyze emissions of smoke from wildfires and prescribed burns in California
- o Used hospitalization and emergency department data from the Office of Statewide Health Planning and Development in order to analyze health effects of smoke emissions

School of Public Health, UC Berkeley | Berkeley, California and Niamey, Niger

September 2017–May 2019

Research assistant under Dr. Daniel Perlman for the Center for Girls' Education Program in Nigeria.

- o Conducted analysis of field notes for studies on Early Marriage and Women's Empowerment
- o Leads a group of students to analyze ethnographic field notes and complete a paper on early marriage in Northern Nigeria
- o Instructed a group of six students on in grounded theory and qualitative analytical methods

IDSanté Association | Cayenne, French Guiana

May 2017–August 2017

Research assistant under Dr. Emilie Mosnier

- o Conducted research on the social and cultural dynamics surrounding the HIV epidemic on the franco-brazilian border
- o Wrote descriptive field notes on the epidemic published in *AIDS* (2018)
- o Collected data and conducted statistical analysis to produce a poster presented at the 18th National Congress of the French Society for the Fight Against AIDS (SFLS) in 2017

PUBLICATIONS

- o *In preparation*: **Boser AS**, et al. "Agency and Decision Making in the Marriage Process: An Ethnographic Study of Early Marriage in Rural Hausa Communities in Northern Nigeria." *Journal of Human Development and Capabilities*.
- o Mosnier E, Epelboin L, Guiraud N, Huber F, Adriouch L, Guarmit B, **Boser AS**, . . . Nacher, M.. "Spatial dynamics and epidemiology for AIDS in remote areas in French Guiana." *AIDS Care*, 1-7 (2018).
- o **Boser AS**, Bidaud B, Maues S, Guiraud N, Mendes AM, Lacapere F Rhodes S, Huber F, Adriouch L, Nacher M, Mosnier E. "Addressing HIV on the French Guianese-Brazilian border: No choice but collaboration!" *AIDS* 32, 539–542 (2018).

POSTERS AND PRESENTATIONS

- o *Accepted*: **Boser AS**, White C, Al-Hamdan M. *Using Statistical and Machine Learning Models with Remotely Sensed Data to Estimate PM2.5 in the San Francisco Bay Area*. Poster to be presented at: American Geophysical Union. December 1-17 2020. San Francisco, California.
- o **Boser AS**, Evans S, Potts MD. *The Effect of Prescribed Burn Smoke on Emergency Department Visits and Hospitalizations in California*. Poster presented at: 3rd International Smoke Symposium. April 20-24 2020. Davis, California.
- o **Boser AS**, Bidaud B, Adriouch L, Epelboin L, Guiraud N, Gaillet M, Carrera C, Brousse P, Mosnier E. VIH sur la frontière franco-brésilienne: mobilité et précarité sur une région en épidémie généralisée. Poster presented at: 18th National Congress of the French Society for the Fight Against AIDS (SFLS). 2017 Oct 19-20. Nice, France.

FELLOWSHIPS AND AWARDS

- o University Medal, UC Berkeley 2020
- o National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) 2020
- o Eugene Cota-Robles Fellowship, UC Santa Barbara 2020
- o Undergraduate Research Apprenticeship Program Summer Fellowship, UC Berkeley 2018