

ANNA BOSER

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EDUCATION

University of California, Santa Barbara Santa Barbara, California PhD, Environmental Sciences and Management; Advisors Ashley Larsen and Kelly Caylor	September 2020–Present GPA: 4.00
University of California, Berkeley Berkeley, California Bachelor of Arts in Statistics	May 2020 GPA: 4.00
<i>University Medal: Awarded to the most distinguished graduating senior</i>	

PUBLICATIONS

- o **Boser AS**, Sousa D, Larsen A, MacDonald A. "Mosquito-borne disease risk mapping at high spatial and temporal resolutions using remotely sensed land surface temperature measurements." *Environmental Research Letters*. (2021).
- o Head JR, ... **Boser AS**..., R Justin. "School closures reduced social mixing of children during COVID-19 with implications for transmission risk and school reopening policies." *The Royal Society* (2021).
- 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 (2019).
- 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 **Boser AS**, Pascolini-Campbell M, Reager JT. American Geophysical Union. *ECOSTRESS detects a 20% increase in evapotranspiration over agricultural lands in California*. December 2021. New Orleans, Louisiana.
- o **Boser AS**, Sousa D, Larsen A, MacDonald A. *Mosquito-borne disease risk mapping at high spatial and temporal resolutions using remotely sensed land surface temperature measurements*. Ecological Society of America. August 2021. Long Beach, California.
- o **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*. 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*. 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*. 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 (most distinguished graduating senior) 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

RESEARCH EXPERIENCE

Water and Ecosystems Division, JPL | Pasadena, California **June 2021–August 2021**
Research intern under JT Reager and Madeleine Pascolini Campbell.

- o Investigated the effect of crop variety and irrigation on evapotranspiration and the overarching effect of agriculture on the water cycle using high resolution satellite imagery including ECOSTRESS.

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 publicly 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 grounded theory and qualitative analytical methods