Britta L. Schumacher

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EDUCATION

The Utah State University, Logan, UT

M.S. Ecology, GPA – 4.0/4.0

2018-present

Areas of Concentration: Statistics in R and SAS, Data Mining and Science, Agricultural and Landscape Change, Water Use and Irrigation Management

The University of California, Santa Barbara, CA

M.A. Geography, GPA -4.0/4.0

2016-2018

Chancellor's Fellow

Areas of Concentration: Social-ecological Research Methods, Human Dimensions of Global Change

The Schreyer Honors College, The Pennsylvania State University, State College, PA

B.S. Physical and Environmental Geography, GPA -3.97/4.0

2011-2015

Areas of Concentration: Global Change Ecology, Natural Resource Management, People and Protected Areas, Politics of Nature

Minors: Climatology, Environmental Inquiry, and Science, Society, and the Environment in Africa

PUBLICATIONS

Burchfield, E., **Schumacher**, **B.** (2020). Bright spots in U.S. corn production. Revised and resubmitted at *Environmental Research Letters*.

Spangler, K., Burchfield, E., **Schumacher, B.** (2020). Past and current dynamics of U.S. agricultural land use and policy. In press at *Frontiers in Sustainable Food Systems*.

RESEARCH AND WORK EXPERIENCE

Water Use: Trends, Resilience, and Efficiency in Production, Dept. of Environment and Society, USU

July 2019-present

20-30 h/week

Principal Investigator

 Utilized data mining techniques and USDA NASS FRIS and IWMS operator-level data to assess trends in irrigation water use across the 11-westernmost US states, informing a thesis and extension materials on water use behavior on irrigated operations.

Climate, Migration and Food, Dept. of Geography, UCSB

Principal Investigator

July 2017-December 2018

20-30 h/week

 Designed protocol and implemented questionnaire in Msosa, Mang'ula A, and Magombera, Tanzania, informing a thesis that elucidated characteristics of smallholders associated with climatic perceptions.

The Rodale Institute Experimental Farm, Kutztown, Pennsylvania

Research Intern

June 2016-August 2016 40 h/week

 Collected, measured, and processed vegetation and soil samples from organic and conventional fields in farm and vegetable systems trials.

Luquillo Forest Dynamics Plot Tree Census, El Verde Field Station, Puerto Rico *Field Intern*

January 2016-May 2016 40 h/week

 Identified, measured, tagged, and mapped all previously recorded and new stems in the 16-hectare Luquillo Forest Dynamics Plot, contributing to a 20-year research project on species and community response to hurricane, human, and climatological disturbance.

Vegetation Dynamics Lab, Dept. of Geography, Penn State

Undergraduate Research Assistant

May 2014-August 2015

15-35 h/week

 Created and maintained data structure and analysis protocol for the processing and organization of an isotope analysis of *Cedrus atlantica* at five different forest sites in Algeria.

Fire Works Lab, Dept. of Geography, Penn State

Undergraduate Research Assistant

January 2014-July 2014

10-20 h/week

 Prepared a comprehensive synthesis of tropical forest degradation scenarios and carbon emissions trajectories for Amazonia; assessing the readiness of individual countries to adapt REDD+ programs.

FIELD EXPERIENCE

South Africa, Tanzania, Puerto Rico

TEACHING EXPERIENCE

Behavioral Geography, Dept. of Geography, UCSB
Health Geography, Dept. of Geography, UCSB
Population Geography, Dept. of Geography, UCSB
Introduction to Cultural Geography, Dept. of Geography, Penn State

March 2018-June 2018
January 2018-March 2018
September 2017-December 2018
August 2013-May 2014

PRESENTATIONS

Schumacher, B., Cassels, S., Gorenflo, L., Sweeney, S., Cleveland, D., Kambi, M. "Farmer Perceptions	April 2019
of Environmental Change in the Villages Adjacent to the Udzungwa Mountains National Park,	
Tanzania", Paper at the American Association of Geographers' Annual Meeting, Washington, DC.	

April 2019

April 2018

April 2015

Spangler, K., Burchfield, E., Schumacher, B. "Dynamics of agricultural land use in the U.S.: Toward
sustainable transitions", Paper at the US International Association of Landscape Ecology Annual
Meeting, Fort Collins, CO.

Schumacher, B., Cassels, S., Gorenflo, L. Kambi, M. "Characterizing Migratory Behavior, Climate
Perceptions, and Agricultural Practices in South Central Tanzania", Paper at the American
Association of Geographers' Annual Meeting, New Orleans, LA, session moderator, *Rural
Geography Specialty Group Student Paper Award recipient.

Schumacher, B. "The Re-Imagination	of Food,	Population,	and Conservation",	Guest lecture in	November 2017
Population Geography, UCSB.					

Schumacher, B. "Resilience and Sustainable Livelihoods: Gender Dynamics in Agricultural Decision-	April 2017
Making," Poster at the Association of American Geographers' Annual Meeting, Boston, MA.	

Schumacher, B., Gorenflo, L. "Resilience and Sustainable Livelihoods: Climate Change at the
Interface of Parks and People", Paper at the Association of American Geographers' Annual Meeting,
Chicago, IL, session moderator.

Schumacher, B. "Gender, Power and Progress: An Examination of the *Bwadi Bwa Kifwebe* Society and the *Bifwebe* Masking Tradition," Poster at the Africana Research Center Undergraduate Research Exhibition, State College, PA.

LEADERSHIP & SERVICE

Natural Resources Graduate Student Council, student representative	2019
Journal of Environment and Development, UCSB student editor	2016- 2018
Geographic Research in the Social Sciences, UCSB co-founder	2017- 2018

HONORS, AWARDS, & SCHOLARSHIPS

Ecology Center Graduate Research Award (\$2,000)	2020
Chancellor's Fellowship (\$37,000)	2016-2018
Broom Graduate Student Research and Travel Grant (\$2,000)	2018
UCSB Geography Summer Research Support Grant (\$2,400)	2018
Emil Steck, Jr. Fellowship (\$2,500)	2017
Schreyer Honors College Academic Excellence Scholarship (\$12,000)	2011-2015
Earth and Mineral Sciences Academy for Global Experiences Laureate	2015

Geography Alumni Scholars Undergraduate Student Award	2015
G.D. Richardson and Kathy LaSauce Undergraduate Geography Scholarship (\$2,000)	2014
Undergraduate Summer Discovery Grant (\$3,000)	2014
John and Elizabeth Holmes Teas Scholarship (\$1,500)	2013

TECHNICAL SKILLS

Microsoft Suite, Esri ArcGIS, Esri ArcPro, QGIS, R, SAS, statistics and spatial statistics, data synthesis and analysis, technical writing