Penn State University

2020-2022 PhD: **Forest Resources**

National Universitv of Singapore

2018-2019: PhD Student Geography



Texas Tech University

2017 MS:

Wildlife, Aquatics, and Wildlands Science and Management

Geographic Information Science and Technology Certificate

2013 BS:

Natural Resources Management and Wildlife Biology

Sasha Danielle Soto

PROFESSIONAL EXPERIENCE



medications, and supplies.

invertebrate behavior when exposed to allelopathic chemicals from invasive species.

SKILLS MANAGEMENT TEACHING TECHNICAL WRITING Oversight/Development Presenting Data Collection/Mgt. Proposals/Grants Leadership/Collaboration Policy/Data Analysis Lecturing Reports **Conflict Resolution Outreach Education** ArcGIS/Remote Sensing Scientific Publications Compliance Regulation **Outdoor Field Instruction** R Modelling Permit Applications

I EACHING EXPERIENCE			
	2018	Field Studies: Thailand mangroves, National University of Singapore	
	2018	Biophysical Environments of Singapore, National University of Singapore	
	2015-2016	Introduction to Natural Resources Management, Texas Tech University	
	2015-2016	Vegetation and Wildlife Inventory and Analysis Techniques, Texas Tech University	

MANUSCRIPTS IN PROGRESS

- I. Soto, S.D., and Barnes, M.A., Elevated humidity and bunching decrease desiccation rate and increase survival of air-exposed fragments of the aquatic invasive plant *Hydrilla verticillata*. Submitted Journal: *Hydrobiologia*.
- II. Friess, D.A., Yando, E.S., Alemu, J.B., Wong, L.W., Soto, S.D., and Bhatia, N., Ecosystem services and disservices of mangrove forests and saltmarshes. Pending October 2020 Journal: Oceanography and Marine Biology: An Annual Review.
- III. Soto, S.D., Mach, C. Portillo-Quintero, C. Rockwell, K. Erickson, and Barnes, M.A., Hydrilla verticillata biotype alters spatial distribution model predictions. Target Journal: Diversity and Distributions.

REVIEWER: PLOS One

ORAL PRESENTATIONS

S.D. Soto, D. Friess, N. Bhatia, December 2018. Examining coastal litter from an ecosystem service and disservice framework. International Conference of Plastics in the Marine Environment, Singapore, SG.

S.D. Soto, Barnes, M.A., Elevated humidity and bunching decrease desiccation rate and increase survival of air-exposed fragments of the aquatic invasive plant *Hydrilla verticillata*

October 2016. The Native Plant Society of Texas Fall Symposium, Glen Rose, TX. Ann Miller Gonzales Graduate Research Grant Awardee April 2016. 7th Texas Tech Annual Biological Science Symposium, Lubbock, TX.

2nd Place Natural Resources Management Warren Ballard Memorial Award March 2016. Texas Academy of Science 119th Meeting, Junction, TX.

S.D. Soto, Mach, C. Portillo-Quintero, C. Rockwell, K. Erickson, Barnes, M.A., March 2016. The management of *Hydrilla verticillata* dispersal and distribution can be improved by using biotypes to produce species distribution models, Texas Tech Three Minute Thesis Competition, Lubbock, TX.

S.D. Soto, Roesler, E.L., Rogowski, D.L., March 2013. Effects of Allelopathic Chemicals of Common Reed (*Phragmites australis*) on Aquatic Invertebrates, 4th Texas Tech Annual Biological Science Symposium, Lubbock, TX.- **1st Place Undergraduate Researcher**

POSTER PRESENTATIONS

S.D. Soto, D. Friess, N. Bhatia, July 2019. Examining coastal litter from an ecosystem service and disservice framework. MMM5-Mangroves, Macrobenthos, and Management, Singapore, SG.

S.D. Soto, C. Mach, C. Portillo-Quintero, C. Rockwell, K. Erickson, Barnes, M.A., Incorporation of biotype alters species distribution model predictions of suitable habitat for the invasive aquatic macrophyte *Hydrilla verticillata*

August 2016. Ecological Society of America Meeting, Ft. Lauderdale, FL. July 2016. Aquatic Plant Management Society 56th Annual Meeting, Grand Rapids, MI.-**1st Place Graduate Student Poster** July 2016. Annual Coordinating Committee Meeting Texas Fish and Wildlife Research

July 2016. Annual Coordinating Committee Meeting Texas Fish and Wildlife Research Unit, Lubbock, TX.

S.D. Soto, Roesler, E.L., Rogowski, D.L., Effects of Allelopathic Chemicals of Common Reed (*Phragmites australis*) on Aquatic Invertebrates

October 2013. Society for Ecological Restoration, Madison, WI. April 2013. Texas Tech Undergraduate Research Conference, Lubbock, TX.









GRANTS AND FELLOWSHIPS

- 2018 Marine Science Research & Development Program of the National Research Foundation, International Conference on Plastics in the Marine Environment Sponsorship. \$150
- 2016 Native Plant Society of Texas, Ann Miller Gonzales Research Grant for Graduate Students. \$1,200
- 2016 Natural Resources Management Department, Texas Tech University, Travel Fall Scholarship Award. \$500
- 2016 Texas Tech University Graduate School, Travel Scholarship Award. \$400
- 2016 Association of Natural Resources Scientists, Travel Summer Scholarship Award. \$250
- 2016 Natural Resources Management Department, Texas Tech University, Travel Summer Scholarship Award. \$500
- 2016 Association of Natural Resources Scientists, Travel Spring Scholarship Award. \$200
- 2013 Natural Resources Management Department, Texas Tech University, Travel Fall Scholarship Award. \$400
- 2013 Center for Active Learning and Undergraduate Engagement Travel Scholarship, Texas Tech University. \$500

DEVELOPMENT WORKSHOPS

- 2016 Texas Tech University Teaching, Learning, & Professional Development Center Workshop: Science Databases
 - 2016 Texas Tech University Teaching, Learning, & Professional Development Center Workshop: Publishing Research
- 2016Texas Tech University Teaching, Learning, & Professional Development Center,
Getting Your First Academic Job Panel Discussion
- 2016 Texas Tech University Graduate School, Statistics Workshop
- 2016 Texas Tech University Teaching, Learning, & Professional Development Center Workshop: How to Literature Review
- 2016 Texas Tech University Teaching, Learning, & Professional Development Center Workshop: Conference Prep
- 2016 Texas Tech University Teaching, Learning, & Professional Development Center Workshop: How to Submit a Proposal
- 2015 The University of Texas at Austin, Department of Statistics and Data Sciences, Geospatial Data Analysis in R Workshop
- 2015 Texas Tech University Graduate School, Writing a Research Statement/Proposal Workshop
- 2015 Texas Tech University, Student Organization Risk Management Training
- 2015 Texas Tech University, Natural Resources Management, Natural Resources Professionalism
- 2015 Texas Tech University, Student Counselling Center: Question, Persuade, Refer Training
- 2008 Texas Tech University, Study Abroad, San Pedro, Belize, Tropical Marine Biology, TTU Biology, Dr. Mark McGinley

COMITTEES AND VOLUNTEER SERVICE

2018-2019	Volunteer, Planning restoration, education activities, and mangrove tours, Restore Ubin Mangroves, Ria Tan
2018-2019	Volunteer, Leading and participating coastal cleanups, Nature Society Singapore
2018-2019	Volunteer, Leading and participating coastal cleanups, Trash Heroes Singapore
2017	Volunteer, Stream seining and fish identification, Texas Parks and Wildlife: Inland Fisheries and TTU Natural Resources Management, Dr. Sarah Fritts
2017	Volunteer, Endangered species trapping and tagging, TTU Natural Resources Management, Sam Harryman
2016-2017	Volunteer, Electro-boat surveying, Texas Parks and Wildlife: Inland Fisheries, Dr. Matthew Barnes
2016	Volunteer, Vegetation surveying, TTU Natural Resources Management Rangeland, Mark Johnson
2016	Volunteer, Environmental-DNA air particle collection and filtering, TTU Natural Resources Management, Mark Johnson
2016	Volunteer, Environmental-DNA water collection and filtering, TTU Natural Resources Management, Dr. Matthew Barnes
2015-2016	Vice President, Association of Natural Resource Scientists
2015-2016	President, WRECK the Stigma
2015-2016	Volunteer, Scales, Tails, and Trails, Association of Natural Resources Scientists
2015	Volunteer, Backpack-shocking and surveying, TTU Natural Resources Management, Dr. Allison Pease
2015	Volunteer, Radio telemetry/Mammal processing, TTU Natural Resources Management, Katie Guntly
2015	Volunteer, OpenStreetMap verification- Map a Thon, TTU Youth Mappers, Dr. Carlos Portillo
2013-2014	Volunteer, Surveying for <i>Assiminea Pecos</i> , TTU Natural Resources Management, Elizabeth Roesler
2013	Volunteer, Surveying for <i>Avicennia</i> seedlings, Florida Atlantic University, Dr. Donna Devlin
2013	Volunteer, Invasive plant removal and herbicide treatment, St. Lucie Inlet Preserve State Park, Dallas Shauan
2012	Volunteer, Deer aging, Texas Parks and Wildlife, Russell Martin
2012	Volunteer, Direct observation of <i>Ictinia mississippiensis</i> nests, TTU Natural Resources Management and Biology, Brandi Welsch
2012-2013	Vice President, Conservation Biology, Texas Tech University

REFERENCES



Dr. Matthew Barnes Assistant Professor Texas Tech University +1-806-834-2122 matthew.a.barnes @ttu.edu

Dr. Sarah Fritts Assistant Professor Texas State University +1-678-836-7223 fritts.sarah@gmail.com

Dr. Daniel Richards Principal Investigator Natural Capital SG +65-8142-8047 richards@arch.ethz.ch