Forrest Scott Schoessow

Department of Geography – Ohio State University Byrd Polar and Climate Research Center Schoessow.1@osu.edu - 001.937.638.8223

Education

PhD. Geography – Ohio State University, expected 2021

Advisor: Bryan G. Mark, PhD

Committee: Ian Howat, PhD; Desheng Liu, PhD; Ellen Mosley-Thompson, PhD; Lonnie Thompson, PhD

- M.S. Geography – Utah State University, College of Natural Resources, 2017
- B.A. History - Ohio State University, 2011

Research Interests

Cryo-geomorphology // Patterns & processes of glacier environmental change High altitude change monitoring // Satellite & UAS remote sensing // Alpine glacier hazard processes Engineering of electromechanical systems & sensor instrumentation

Field Experience

Aug. 2018 — Great Basin National Park, Nevada – United States of America

Rock glacier aerial survey leader — 9 day hitch, full support.

May-Aug. 2015 — Mississippi River Survey Expedition – United States of America

Expedition Leader, Navigator — 3958 km, 83 days, limited support.

Aug.-Sept. 2014 – Vatnajökull and Snæfellsjökull, Iceland

5 days on slopes, limited support.

Aug.-Nov. 2012 - Zongo, Huayna Potosi, Chacaltaya, Bolivia

11 days on slopes, full support.

Montana Conservation Corps (embedded with USFS, BLM, USNPS):

Jul.-Aug. 2012 – Bighorn National Forest, Wyoming

Expedition Leader — 12 day hitch, pack support. Historical landform protection.

Jul. 2012 – Beaverhead National Forest, Montana

Expedition Leader — 14 day hitch, pack support. Forest thinning for fire fuel reduction.

Jun. 2012 – Lee Metcalf Wilderness Area, Montana

Expedition co-Leader — 21 day hitch, no support. Trail repair & construction.

May 2012 - Absaroka-Beartooth Wilderness Area, Montana

Expedition co-Leader — 21 day hitch, no support. Trail repair: wind storm & avalanche clean up.

Apr. 2012 - Frank Church-River of No Return Wilderness Area, Idaho

14 day training hitch, no support. Trail construction, floodwater diversion, leadership clinic.

Mountaineering Experience

Trainings

Advanced GPS techniques for field research & navigation. USU QCNR workshop. Sept. 2016.

Wilderness First Responder, last recert. March 2013

Avalanche Training, Big Sky, Montana. Dec. 2013

Rock & Snow clinic, led by D. Krueger. Dec. 2013

USFS Field Risk Assessment & Mitigation clinic, Mar. 2012

USFS Navigation & Map Reading, Mar. 2012

OSU Army ROTC Mountaineering I, Spring semester 2010

WPAFB Navigation & Map Reading, Jun. 2008

Alpine

Wheeler Peak (3982m, 2305 prominence) – forest fire smoke, August 2018

Bidean Nam Bian, Scotland (1150m) – June 2018

Kristinartindar, Iceland (1126m from sea level) – July 2017

Mount Timpanogos, Utah (3582m, 1609m prominence) – April 2017

Kings Peak, Utah (4125m, 1938m prominence) – Led by R. Lyra, October 2016

Snæfellsjökull, Iceland (1446m, 1267m prominence) – September 2014

Seoraksan, South Korea (1708m) - March 2014

Jirisan, South Korea (1915m, 1696 prominence) – September 2013

Castle Rock, Montana (3781m) – Winter ascent, Led by D. Krueger, December 2012

Huayna Potosi, Bolivia (6088m) – Led by R. José, August 2012

Chacaltaya, Bolivia (5421m) – August 2012

Granite Peak, Montana (3904m, 1451m prominence) - Led by D. Krueger, July 2012

Castle Mountain, Montana (3846m) – July 2012

Beartooth Mountain, Montana (3766m) – July 2012

Sphinx Mountain, Montana (3300m) – June 2012

McDonald Peak, Montana (2994m, 1720m prominence) - Led by D. Krueger, May 2012

White Mountain Peak, California (4344m) - August 2011

Telescope Peak, California (3366m) – 3454 elevation gain from Death Valley, August 2011

Cloud Peak, Wyoming (4015m, 2154m prominence) – July 2011

Jabal Umm ad Dami, Jordan (1854m, 1354 prominence) – July 2010

Mount Harvard, Colorado (4396m) – August 2008

Mount Lincoln, Colorado (4357m) – August 2008

Uncompangre Peak, Colorado (4365m) – August 2008

Ice

Mýrdalsjökull, Iceland – August 2014

Svínafellsjökull, Iceland – August 2014

Skaftafellsjökull, Iceland – August 2014, July 2017

Castle Glacier, Montana – December 2012

Zongo, Bolivia – August 2012

Tempest, Granite, Wolf Glaciers, Montana – July 2012

Patents & Technology Innovations

Lead author (8):

T2019-094 – The RANGER: an autonomous aerial remote sensing platform for 3D-mapping of high-mountain environments using active sensor array

T2019-246 – Integrated laser-guided terrain following system: a modular payload for real-time laser altimetry and obstacle avoidance

- T2019-250 Airborne laser surface elevation mapping system
- T2019-251 Mobile, solar-powered enterprise
- T2019-252 Lightweight terrestrial non-repetitive laser scanning system
- T2019-253 Airborne infrared surface temperature monitoring system
- T2019-254 Airborne turbulent flux measurement system
- T2019-255 Airborne radiative flux measurement system

Co-authored (8):

- T2019-242 Reinforced carbon fiber multirotor main frame dorsal plate for vibration dampening
- T2019-243 Robust vibration-dampening balsa-cored fiberglass multicopter main frame dorsal plate
- T2019-245 Ultrasonic collision avoidance system and protocols for UAS
- T2019-249 Sensor data integration board
- T2019-256 Autonomous quadcopter system prototype
- T2019-257 Aluminum multirotor main frame for heavy vibration-dampening
- T2019-258 Ventral main frame plate for multicopter using vibration-dampening balsa core fiberglass
- T2019-259 Vibration-dampening, carbon fiber multirotor main frame ventral plate

Additional Experience

Aug. 2017 - Present — Mountain Drone Team - Byrd Polar & Climate Research Center, Ohio State University Director of MDT, Glacier Environmental Change Laboratory

Designed, secured funding for, and developed the first custom-built, unmanned aerial systems (UAS) capable of 3D laser-mapping in high-mountain environments.

Aug. 2015 – Aug. 2017 — Utah State University, Yale Project on Climate Change Communication

Graduate Research Assistant, Human-Environment Spatial Analysis Laboratory

Analysis of extreme heat event spatial and temporal patterns for a risk perception study

2016-2017 — Mobile STEM+Art Outreach Truck — Utah State University

Project Lead

- Designed, secured funding for, and developed a solar-powered mobile art-science outreach platform capable of bringing high-tech, interactive education resources to Utah's traditionally underserved, remote communities.
- Led student team of engineers to retrofit and modify an industrial box truck with solar array to create a highly mobile and energy independent "school in a box" which seeks to break down barriers to STEM concepts physically and conceptually.
- The project gives university students an opportunity to gain experience practicing innovative science communication techniques and translate their research into educational outreach operations aimed at doing real, meaningful good for local communities

2009-2015 — GO2 Technologies — Dayton, Ohio

Systems Engineering Assistant

- Creative engineering solutions for assembly, test, fixturing, and laboratory applications
- Evaluation of deformation profiles & thermal characteristics of proprietary materials
- Custom machine building, retrofitting, automation; Robotics system integration
- Partners: Kuka Robotics, CBT, Mitsubishi, Siemens, SMC, Stein, Triad Technologies, Keyence, C&E, Robeck co., Rockwell Automation, UDRI

2012 — Sustainable Farming Project — Cordillera Province, Bolivia

Volunteer

- Addressed drought issues on the farm by establishing ground-water well
- Assisted in development of cistern and solar-powered drip irrigation system

Summer 2010 — University of Jordan — Amman, Jordan

Student, Volunteer

- Cultural ambassador exchange
- Volunteer at the Roman Citadel historical site & Jordan Archaeological Museum
- Classical & Colloquial Arabic immersion program graduate

2008 — Wright Patterson Air Force Base — Dayton, Ohio

Intern, Environmental Management Branch GIS Technician

- Coordinated with local officials to protect rain water and develop pollution prevention plan
- Inspected hazardous materials & waste facilities; inventoried hazardous materials on base
- Resource Conservation and Recovery Act (RCRA) certification; Hazardous Waste Management (HWM) training

Awards & Honors

2019 - Candidate for OSU Next Generation Innovator of the Year

Nominated by Dean of College of Arts & Sciences, Ohio State University

2018 - Named as an **OSU Innovation Ambassador**

College of Nursing's Office of Innovation and Strategic Partnerships, Ohio State University

2017 - Biel Research Award

Department of Geography, Ohio State University

2016-2017 - Graduate Instructor of the Year Award

Quinney College of Natural Resources, Utah State University

Spring 2017 – Office of Research & Graduate Studies Travel Award

School of Graduate Studies, Utah State University

2017 Annual Meeting of the American Association of Geographers

Fall 2016 - Office of Research & Graduate Studies Travel Award

School of Graduate Studies, Utah State University

2016 Fall Meeting of the American Geophysical Union

2016- 2017 – Academic scholarship

Department of Environment and Society, Utah State University

Spring 2016 – Office of Research & Graduate Studies Travel Award

School of Graduate Studies, Utah State University

2016 Annual Meeting of the American Association of Geographers

Spring 2016 – Black Student Union - Student Spotlight

Utah State University Diversity Council

Recognized for work to promote atmosphere of diversity & inclusion in College of Natural Resources

Fall 2015 - City Proclamation of Recognition by Mayor of Piqua, Ohio

Recognized by the City of Piqua, Ohio Commission and Office of the Mayor for leadership & the Mississippi River Survey Expedition's efforts to increase public awareness of conservation issues

Fall 2015 – Academic scholarship

Department of Environment and Society, Utah State University

Funded Grant Proposals

- Feb. 2019 Innovation Studio Grant: Autonomous aerial solutions for risk mitigation and critical decision-making. **Schoessow, F.S.**; Soni, N.; Vega, E.
- Dec. 2018 The Sharpe Innovation Commons Seed Grant: 3D-Mapping of high-mountain tropical glacier retreat using unmanned aerial systems (UAS) and Lidar remote sensing. **Schoessow**, **F.S.**; Soni, N.; Vega, E.
- Dec. 2018 Tech Hub Student Project Grant: 3D Mountain Hazard Mapping. Schoessow, F.S.
- Dec. 2018 Department of Geography Travel Grant, American Geophysical Union annual meeting
- Nov. 2018 Geological Society of America Student Travel Grant
- Nov. 2018 Innovation Studio Challenge-Track Grant: Autonomous aerial solutions for risk mitigation and critical decision-making. **Schoessow**, **F.S.**
- Oct. 2018 Innovation Studio Grant: Autonomous aerial solutions for risk mitigation and critical decision-making. **Schoessow, F.S.**
- May 2018 Sharpe Innovation Commons Seed Grant: 3D-Mapping of high-mountain tropical glacier retreat using unmanned aerial systems (UAS) and Lidar remote sensing. **Schoessow, F.S.**; Soni, N.; Vega, E.
- May 2018 Sharpe Innovation Commons Seed Grant. Macroscale-Charcoal in Meadow Cores as a Proxy for Wildfire Activity in Great Basin National Park. White, J.; Soni, N.; Schoessow, F.S.; Sambuco, E.
- September 2016 Mobile, solar-powered earth science outreach in a retro-fit box truck. **Schoessow, F.S.**, Christian, L., Webb, Z.
- September 2016 Quinney Natural Resource Library renovation & sustainability energy project. Winters, L., **Schoessow, F.S.**, Bingham, D., Christian, L., Webb, Z.

Proposals Pending

- 2019 SERVIR Applied Science Project. NASA & USAID. Geo-CUeNCA: Gestión de Cambios hidroclimáticos afectando el Uso del agua e impactos Negativos en la Criosfera Andina. Mark, B.; Schoessow, F.; McCrink, M.; Gregory, J.; Bevis, M.; Liu, D.; Carey, M.; Gomez, R.J.; Silva, Y.; Baraer, M.; McKenzie, J.; Fernandez, A.
- 2019 Graduate Student Research Grant Competition. Mershon Center for International Security Studies. Hydroclimatic change management and glacier hazard risk mitigation in the Andean cryosphere. **Schoessow**, **F.**
- 2019 Graduate Research Seed Grant. National Center for Airborne Laser Mapping. Mapping climate controls on topography via surface elevation changes in Great Basin National Park, NV and the associated impacts on hydrological resources. **Schoessow**, **F.**
- 2019 BETHA. OSU Office of Research. GBEX-GLACIER: Geographic La ndscape Assessment Coupling Innovative technology & interdisciplinary learning in Experiential Research. Mark, B.; DeGrand, J.; Schoessow, F.

Proposals in Preparation

- 2019 RAPID Applied Science Project. NASA.
- 2019 Doctoral Dissertation Research Improvement Award. National Science Foundation.
- 2019 Nat-Geo Early Career Grant. National Geographic Society.
- 2019 Tinker Foundation Field Research Grant.

Qualifications

- Part 107 Unmanned Pilot License
- NASA Global Disaster Alert & Coordination System applied remote sensing training 2017
- Remote sensing for geomorphology workshop, QCNR, Utah State, November 2016
- Wilderness First Responder (WFR) certification, Mar. 2012, 2013
- Backcountry leadership clinic, Montana Conservation Corps, Apr. 2012
- U.S. Forest Service sawyer training Mar. 2012
- AmeriCorps service educators workshop: Learning Styles & Adaptive Education Feb. 2012
- AmeriCorps: Active Listening, Feedback Cycle, Conflict Resolution, and Facilitation training Feb. 2012
- R, Python, MATLAB, Analyseries, QGIS, ArcGIS, ERDAS Imagine
- 1350+ volunteer hours via AmeriCorps national service

Professional Associations

American Association of Geographers (AAG)

Cryosphere; Geomorphology; Hazards, Risks, & Disasters; Mountain Geography; Polar Geography; Remote Sensing

American Geophysical Union (AGU)

Natural Hazards; Global Environmental Change; Geodesy; Physics, Dynamics, & Climate

American Association for the Advancement of Science (AAAS)

Geological Society of America (GSA)

American Academy of Environmental Engineers & Scientists (AAEES)

Mississippi River Conservation Network (MRCN)

Public Engagement

Invited talks:

- Apr. 2019 OSU Innovation & Research Showcase. The Ohio State University. Columbus, Ohio.
- Feb. 2019 TEDx OSU. Source to sea: My journey down the Mississippi River. Wexner Center for the Arts. Columbus, Ohio.
- Feb. 2019 "UAS remote sensing platforms for change monitoring in high-altitude alpine environments." Seminar Speaker Series. Byrd Polar and Climate Research Center, Columbus, Ohio.
- Dec. 2018 "3D Alpine Change Mapping" Tech Hub, Columbus, Ohio.
- Nov. 2018 "Mapping surface elevation changes using autonomous systems and SfM photogrammetry" GIS day, 18th Ave. Research Library, Columbus, Ohio.
- Oct. 2018 "3D-Mapping of high-mountain tropical glacier retreat using unmanned aerial systems (UAS) and Lidar remote sensing." Gary and Connie Sharpe Innovation Commons, The Ohio State University.
- Oct. 2018 "Byrd Bites: Mapping rock glacier surface elevation changes in Great Basin National Park, NV." Byrd Polar and Climate Research Center, Columbus, Ohio.

Aug. 2018 - "The Lehman Rock Glacier: using aerial imagery to monitor ice volume changes." Great Basin National Park Visitor Center, Baker, Nevada.

Web & TV:

- OSU Office of Diversity & Inclusion spotlight: OSU Mountain Drone Team. http://u.osu.edu/odigpnews/2019/03/07/student-highlights-spring-2019/7 Mar. 2019.
- "Mountain Drone Team goes above and beyond to analyze glaciers." OSU College of Engineering feature. https://engineering.osu.edu/news/2019/02/mountain-drone-team-goes-above-and-beyond-analyzeglaciers 21 Feb. 2019
- OSU Office of Energy & Environment spotlight: OSU Mountain Drone Team. https://tinyurl.com/v3jn55pv. 12 Nov. 2018.
- "The Mountain Drone Team: Connecting People with Science." Byrd Polar & Climate Research Center feature. https://byrd.osu.edu/news/mountain-drone-team-connecting-people-science. 31 Oct. 2018.
- Science experiment on Japanese TV show "Denjirou Sensei." geography.osu.edu/news/forrest-schoessow-featured-japans-bill-nye-science-guy.-show. 2 Feb. 2018.
- USU Office of Research Graduate Student Teacher of the Year spotlight. http://rgs.usu.edu/awards/portfolio-items/forrest-schoessow/ May 2017.
- "Forrest Schoessow: Geography's foot soldier," USU School of Graduate Studies spotlight. https://rgs.usu.edu/graduateschool/graduate-blog/highlights/forrest-schoessow/ March 2016.

Newspaper:

- "River travelers arrive in New Orleans". 5 August 2015. Melanie Speicher. Sidney Daily News; Piqua Daily
- "Trio has grueling week on Mississippi River". 19 July 2015. M. Speicher. Sidney Daily News; Piqua Daily Call.
- "Touch of home powers travelers". 12 July 2015. Alexandra Newman. Piqua Daily Call, Sidney Daily News.
- "Wild and crazy week for river adventurers". 5 July 2015. M. Speicher. Sidney Daily News; Piqua Daily Call.
- "Paddlers reach 1,000-mile mark". 28 June 2015. Melanie Speicher. Sidney Daily News; Piqua Daily Call.
- "Travelers paddle waters in Wisconsin, Iowa". 21 June 2015. M. Speicher. Sidney Daily News; Piqua Daily Call.
- "Adventurers enter Wisconsin". 14 June 2015. Melanie Speicher. Sidney Daily News; Piqua Daily Call.
- "Mother Nature watches adventurers". 7 June 2015. Melanie Speicher. Sidney Daily News; Piqua Daily Call.
- "A wild beginning to Mississippi adventure". May 31 2015. A. Newman. Sidney Daily News; Piqua Daily Call.

Publications

Schoessow, F.S., Sambuco, E., Mark, B., DeGrand, J., Manos, J.M., Soni, N., Porinchu, D., Baker, G. Mapping rock glacier surface elevation changes in Great Basin National Park, Nevada. In preparation. Target journal: Journal of Antarctic, Arctic, and Alpine Research.

- Schoessow, F.S., Workman, G., Vega, M.E., Harlow, C., Affourtit, J., Zhan, M. Autonomous aerial remote sensing platforms for monitoring of snow and ice at high altitudes. In preparation, Target journal: Journal of the Institute of Electrical and Electronics Engineers (IEEEE)
- Schoessow, F.S., Howe, P.D., Marlon, J., Leiserowitz, A. Factors influencing extreme heat risk perception across the contiguous United States. In review at: Journal of Risk Analysis
- Schoessow, F.S. Humans as sensors: the influence of extreme heat vulnerability factors on risk perceptions across the contiguous United States" (2018). Graduate Theses and Dissertations. 7094. https://digitalcommons.usu.edu/etd/7094

Scientific Presentations

Invited Talks:

- Schoessow, F.S. Differential GPS techniques & their applications in field research. Oral presentation & workshop at College of Engineering, OSU; Columbus, Ohio.
- Schoessow, F.S., Li, Y., Howe, P.D. (2017, March 20) A spatiotemporal analysis of extreme heat exposure & NWS alert patterns across the CONUS using geospatial techniques. Oral presentation at Yale Project on Climate Change Communication, Yale University; New Haven, Connecticut.
- Schoessow, F.S., Li, Y., Howe, P.D. (2016, December 13) A spatiotemporal analysis of extreme heat vulnerability across the United States using geospatial techniques. Oral presentation at American Geophysical Union fall meeting; San Francisco, California.
- **Schoessow, F.S.** (2016, May 10) Interdisciplinary curricula and coupled human-environment systems. Destinations: Planetary Thinking in the Curriculum; Utah State University; Logan, Utah.
- Schoessow, F.S., Ross, A.T., Selsor, S. (2015, October 20) The role of citizen science in watershed conservation and restoration. Address to the City of Piqua; City Commission & Office of the Mayor; Piqua, Ohio

Contributed:

- Schoessow, F.S., Soni, N., Vega, M.E., Mark, B.G. (2018, December 12) UAV-borne remote sensing platforms for glacier-related hazard monitoring in high-mountain environments. Poster presentation at the American Geophysical Union annual meeting; Washington, D.C.
- Schoessow, F.S., Manos, J.M., Mark, B.G., DeGrand, J., Soni, N., Reinemann, S., Porinchu, D. (2018, November 4) Mapping rock glacier surface elevation changes in Great Basin National Park, Nevada. Paper presentation at the Geological Society of America annual meeting; Indianapolis, Indiana.
- Esplin, E., Howe, P.D., Schoessow, F.S., Li, Y. (2017, July 9) Heatwave experience, risk perception, and protective action in the United States. Poster presentation at 2017 Natural Hazards Workshop at University of Colorado; Boulder, Colorado.
- Christian, L., Schoessow, F.S. (2017, April 8) Climate change impacts in the subtropical Andes Mountains. Paper presentation at American Association of Geographers annual meeting; Boston, Massachusetts.
- Schoessow, F.S., Li, Y., Esplin, E., Howe, P.D. (2017, April 7) Spatial-Temporal Variability of Extreme Heat Exposure Across the United States. Paper presentation at American Association of Geographers annual meeting; Boston, Massachusetts.

- Esplin, E., Howe, P.D., Schoessow, F.S., Li, Y. (2017, April 7) Can you take the heat? The relationship between heat wave experience, risk perception, and protective action in the United States. Poster presentation at American Association of Geographers annual meeting; Boston, Massachusetts.
- Schoessow, F.S., Christian, L. (2016, December 12) Utah's mobile earth science outreach vehicle. Paper presented at American Geophysical Union fall meeting; San Francisco, California. [Selected for paper presentation.]
- Schoessow, F.S., Li, Y., Howe, P.D. (2016, December 12) A spatiotemporal analysis of extreme heat vulnerability across the United States using geospatial techniques. Poster presentation at American Geophysical Union fall meeting; San Francisco, California.
- Schoessow, F.S. (2016, April 22) Spatial analysis of heat wave risk perceptions in the United States. Oral presentation at Department of Environment and Society Graduate Symposium; Logan, Utah.
- Christian, L., Schoessow, F.S. (2016, April 9) Impacts of climate change & glacial retreat on indigenous cultures of the Andes Mountains. Poster presentation at the Global Crises and Global Change Conference; Salt Lake City, Utah.
- Bingham, D., Schoessow, F.S. (2016, April 6) The global water crisis. Poster presentation at Utah State University Spring Runoff Conference; Logan, Utah.
- Christian, L., Schoessow, F.S. (2016, April 5) Climate change impacts & geographies: comparing water scarcities in Utah and the Andean Highlands. Paper presentation at Utah State University Spring Runoff Conference; Logan, Utah.
- Schoessow F.S., Li, Y., Howe P.D. (2016, March 31) Defining vulnerable populations and exploring socioenvironmental predictors of heat wave risk perceptions. Paper presentation at the Annual Meeting of the American Association of Geographers; San Francisco, California.
- Li, Y., Schoessow, F.S., Howe, P.D. (2016, March 31) The influence of land cover and local climate on public perceptions of heat wave risk. Paper presentation at Annual Meeting of the American Association of Geographers; San Francisco, California.
- Howe, P.D., Li, Y., Schoessow, F.S., Marlon, J., Leiserowitz, A. (2016, March 31) Geographic variation in risk perceptions and vulnerability to extreme heat hazards in the U.S. Paper presentation at Annual Meeting of the American Association of Geographers; San Francisco, California.

Teaching

2019 — Graduate Teaching Assistant — Ohio State University Spatial Data Analysis (GEOG 5210)

2017-2018 — Laboratory Instructor — Ohio State University Geographic Information Systems (GEOG 5210)

2016 — Laboratory Instructor — Utah State University Geographic Information Systems & Science (GEOG 1800)

2015 — Graduate Teaching Assistant — Utah State University Geographic Information Systems & Science (GEOG 1800)

2013-2014 — Korea Poly School — Seoul, Republic of Korea

Teacher - English, Science, Math

2012 — Americorps: Montana Conservation Corps — Bozeman, Montana

Expedition Crew Leader, Educator

Service

Founding Project Lead — Mobile STEM+Art Truck, Nora Eccles Harrison Museum of Fine Art - 2016

Seminar Committee Member — USU Ecology Center - 2016, 2017

Planning Committee Member — Restoring the West Conference - 2016, 2017

Grad. Student Director — USU Students for Academic & Institutional Integrity - 2016, 2017

Student Project Coordinator — Quinney Research Library Renovation Project - 2016

Graduate Advisor — USU Library Advisory Board - 2016, 2017

Graduate Advisor — Student Organization for Society & Natural Resources - 2016,2017

Editor pro bono publico — Wikimedia Foundation

Mentoring

Nischay Soni, College of Food, Agriculture, and Environmental Sciences, The Ohio State University

Evan Vega, Electrical & Computer Engineering, The Ohio State University

Aswathnarayan Radhakrishnan, MS student, Computer Science & Engineering, The Ohio State University Josef Affourtit, Physics, The Ohio State University

Cole Harlow, Engineering Physics, The Ohio State University

Gus Workman, Electrical & Computer Engineering, The Ohio State University

Jacob Langermeier, Aerospace & Mechanical Engineering, The Ohio State University

Michael Zhan, in Computer Science & Engineering, The Ohio State University

Logan Christian, Environment & Society, Utah State University

Darren Bingham, Environment & Society, Utah State University