CURRICULUM VITAE

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Ecology, Evolution, & Behavior Program
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EDUCATION

Boise State University, Boise, Idaho
Ph.D. in Ecology, Evolution, & Behavior: Human-Environment Systems
Expected graduation: May 2023
GPA 4.0

Boise State University, Boise, Idaho
M.Sc. in Biology: Human-Environment Systems, June 2019
Thesis: *Methodological Advances for Understanding Social Connectivity and Environmental Implications in Multi-Use Landscapes*
GPA 3.8

California State University Chico, Chico, California
B.S. in Ecological, Evolutionary, and Organismal Biology, December 2016
GPA 3.5

RESEARCH INTERESTS

- Protected areas management
- Human decision making
- Science communication
- Social-ecological systems

METHODS INTERESTS

- Hierarchical modeling
- Network analysis
- Mixed methods
- Agent-based modeling

PEER REVIEWED PUBLICATIONS

Clark, M., Wilkins, E. J., Dagan, D. T., Powell, R., Sharp, R. L., & Hillis, V. (2019). *Bringing forecasting into the future: Using Google to predict visitation in U.S. national parks*. Journal of Environmental Management, 243, 88–94. https://doi.org/10.1016/j.jenvman.2019.05.006

Clark, M., Hillis, V.. *Network Governance of Natural Resources: Making collaboration count*. (In prep. Manuscript available upon request)

OTHER PUBLICATIONS

Clark, M. (2019). *Methodological Advances for Understanding Social Connectivity and Environmental Implications in Multi-Use Landscapes.* Boise State University Theses and Dissertations. https://scholarworks.boisestate.edu/td/1586/

Skinner, A., **Clark, M**., Lobo, R., Mahajan, S., De Nardo, M. (2019). *Social Outcomes of the CARE-WWF Alliance in Mozambique: Research Findings from a Decade of Integrated Conservation and Development Programming.* Impact assessment for the CARE-WWF Alliance and the Alliance for Conservation Evidence. *Full report and impact brief available upon request.

Dagan, D., Wheeler, I., Beck, L, Benedetti, A., Blacketer, M., **Clark, M**., McHugh, K., Noss, C., Sizek, J., Wilkins, E., Powell, R., & Sharp, R. *2018 Park break report: Developing a visitation forecasting tool and management recommendations for the Mojave Desert Region NPS Units*. Research report to the National Park Service. *Full report available upon request.

OPEN-SOURCE WEB APPLICATIONS

Clark, M. (2018). National Park Service Visitation Forecast Explorer. http://hillislab.boisestate.edu/GoogleTrendsForecasting/

CONFERENCE PRESENTATIONS

Clark, M. Computation for Communities and Conservation. Boise State Three Minute Thesis Competition 2020. Boise State University. Boise, Idaho.

Clark, M., Hillis, V. Network Governance of Natural Resources: Making collaboration count. 2019. Annual meeting American Association of Geographers. Washington, D.C.

Clark, M., Wilkins, E., Dagan, D., Powell, R., Sharp, R., & Hillis, V.. "Bringing forecasting into the future: Using Google to predict visitation in U.S. National Parks. 2019. Research Computing Days, Boise State University. Boise, Idaho. *2nd place poster, student poster competition.

Clark, M., Hillis, V. Network Governance of Natural Resources: Making collaboration count. 2018. Annual meeting Ecological Society of America. New Orleans, Louisiana.

Clark, M., Hillis, V. Network Governance of Natural Resources: Making Collaboration Count. 2018. International Symposium on Society and Resource Management. Salt Lake City, Utah.

Dagan, D., **Clark, M**., Blacketer, M., Wilkins, E., Beck, L., Benedetti, A., McHugh, K., Noss, C., Sizek, J., Wheeler, I., Sharp, R., Powell, R. Using Google Trends to forecast visitation and proactively manage visitors at three NPS units: Park Break 2018 products. 2018. International Symposium on Society and Resource Management. Salt Lake City, Utah.

Clark, M., Hillis, V. Applying social-ecological networks to analyze collaborative management strategies in the high divide. 2017. Annual meeting National Science Foundation Idaho, Established Program for Stimulating Competitive Research (EPSCoR). Pocatello, Idaho.

TEACHING EXPERIENCE

Invited Talk **2020**
Research Directions in Conservation Sciences - Boise State Summer Research Community Ten Talks seminar

Laboratory Instructor **2019 - Present**
Introduction to the Diversity of Life. BIOL 192 - Two sections- Boise State University, ID

Data Carpentry Instructor & Workshop Leader **2019**
R for Social Scientists - Two day workshop - Midwest Big Data Hub, OH

Intermediate R Instructor & Workshop Leader **2019**
Intermediate Level R for Researchers - Half day workshop - Boise State University, ID

Software Carpentry Instructor & Workshop Leader **2019**
R for Reproducible Scientific Analysis - One day workshop - Boise State University, ID

Software Carpentry Instructor & Workshop Leader **2019**
R for Reproducible Scientific Analysis - Two day workshop - New York Academy of Sciences, NY

Software Carpentry Instructor & Workshop Leader **2018**
R for Reproducible Scientific Analysis - Two day workshop - University of Minneapolis, MN

Teaching assistant & Guest lecturer **2018**
Network Analysis - Boise State University, ID

Invited Talk **2018**
Applied Linear Modeling & Avenues in Science - Antioch High School Environmental Academy, CA

Discussion Leader **2017 - 2019**
Boise State R User's Group - Boise State University, ID

PROFESSIONAL EXPERIENCE

Boise State Research Computing **2019**
***Data Science for Non-Scientists* - Curriculum Developer**
Created a semester long curriculum for non-science graduate students to build computational capacity and learn to work with data. Responsible for all aspects of curriculum development and for leading a semester-long, weekly beta-testing workshop with 6 graduate students.

World Wildlife Fund **2019**
Quantitative Social Science Intern
Top candidate selected from a nationwide search (U.S.). Responsible for harmonizing and analyzing data from a ten year, flagship CARE-WWF Alliance project in Mozambique. Key research objectives are to explore the food security and wealth impacts of community-managed fisheries, forests and mangrove interventions, using time-series quantitative household surveys.

Lost Grove Brewery **2019**
Data Analyst
Completed an independant side project to assess the efficacy of social media advertising for a local business. Results allowed for managers to identify points of diminishing returns and optimize advertising expenditure across social media platforms.

Software & Data Carpentry **2018 - Present**
Certified Instructor
Certified instructor for software and data carpentry. Experience leading multi-day workshops on the principles of reproducible data science, data analysis, and data management and manipulation among other topics for graduate students and faculty.

Boise State R User's Group **2017 - Present**
Founder and Manager
I founded the Boise State R User's Group to bring together statistical computing expertise at Boise State and create a collaborative environment for undergraduates, graduate students, and faculty to further develop the necessary skills to succeed in the scientific arena. Brought in over $800 of outside funding. Created an online open-source repository for others to access R tutorials. Brought in outside speakers on a bi-weekly basis to provide tutorials on novel content

George Wright Society & National Park Service Park Break **2018**
Graduate Student Participant
One of 10 graduate students selected nationwide to travel to Joshua Tree National Park on behalf of the George Wright Society to help manage and forecast increased visitor use. Primary quantitative researcher on the team. Developed a Bayesian forecasting model to predict park visitation. Developed an interactive web application to assist park managers in park planning

Gallaway Enterprises **2017**
Wildlife Biologist & Environmental Consultant
Conducted pre-construction surveys and compliance monitoring on construction projects in Northern California. Regularly worked with contractors and the public to develop mitigation plans. Surveyed for a number of sensitive avian and plant species. Managed large project budgets and construction personnel.

Forest Restoration Research Unit, Chiang Mai University **2016**
Forest Restoration Intern
Worked with local Hmong villages to build community support for non-timber forest products and local reforestation projects. Developed educational workshops for up to 50 visiting students. Primary team statistician, analyzed and presented data using R software. Organized collaborative reforestation site maintenance with local peoples and university researchers.

MENTORSHIP EXPERIENCE

Graduate Student Mentor - Boise State Vertically Integrated Projects **2020**

Financial Impacts of Wildfire Smoke on the National Park Service

Graduate Student Mentor - Boise State Vertically Integrated Projects **2020**
Assessing Fuel Efficiency of Improved Cookstoves in Rural Tanzania

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AWARDS AND FELLOWSHIPS

2nd Place Best Student Poster, Boise State Research Computing Days **2019**
Graduate College Travel Award, Boise State University **2019**
Biology Dept Travel Award, Boise State University **2018**
Park Break Fellowship, George Wright Society **2018**
STEM Study Abroad Award, Chico State University **2016**

PROFESSIONAL SOCIETIES

Ecological Society of America
International Association for Society and Natural Resources
American Association for the Advancement of Science
American Association of Geographers