

Dana Johnson

Department of Natural Resources and Environmental Sciences

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She/her/hers pronouns

EDUCATION

M.S. University of Illinois, Natural Resources and Environmental Sciences, Expected May 2021

Advisor: Carena van Riper

Thesis title: Assessing preferences for future growth scenarios in protected area communities

B.S. University of Illinois, Natural Resources and Environmental Sciences, 2018

Concentration: Resource Conservation and Restoration Ecology

Honors thesis title: A comparative study of cultural ecosystem service values reported by recreationists in US and Australia Protected Areas

RESEARCH EXPERIENCE

Graduate Research Assistant

Urbana, IL

University of Illinois, Department of Natural Resources and Environmental Sciences

Fall 2018-Present

- Contributed to the theoretical advancement of the field of conservation psychology
- Designed a questionnaire for analyzing preferences for landscape management in Interior Alaska
- Conducted interviews and facilitated focus groups of residents across six communities in Interior Alaska
- Established quantitative modeling skills including discrete choice modeling, fuzzy cognitive mapping, and structural equation modeling
- Revised manuscripts in preparation for submission to peer-reviewed journals
- Created presentations to convey research results to a range of national and international audiences

National Great Rivers Research and Education Center

Urbana, IL

Intern

Summer 2018

- Conducted research on finding compatibility between agro-ecosystems and conservation in rural Illinois
- Qualitatively analyzed survey responses using Atlas.ti and SPSS V.23.0
- Disseminated findings during an internship symposium in Alton, IL

Undergraduate Research Assistant

Urbana, IL

Department of Natural Resources and Environmental Sciences- Human Dimensions

Fall 2017-Spring 2018

- Conducted research on cultural ecosystem service values in the US and Australia protected areas
- Geospatially analyzed individual social values in relation to protected area biophysical metrics using ArcGIS and the Social Values for Ecosystem Services (SolVES V.3.0) extension
- Analyzed current peer reviewed literature pertaining to marine spatial planning, human impacts on the environment and non-material valuation

Illinois Environmental Protection Agency

Des Plaines, IL

Intern, Bureau of Water's Northern Monitoring Unit

Summer 2017

- Monitored the physical, biological, and chemical quality of Northern Illinois' water supply through the use of sampling equipment and data analysis
- Generated monitoring parameters of IEPA headquarters through extended analysis of dissolved oxygen data

PUBLICATIONS

[underlining denotes the student was mentored]

Peer-reviewed

Cebrián-Piqueras, M. A., Filyushkina, A., **Johnson, D. N.**, Lo, V. B., López-Rodríguez, M. D., March, H., Osteros-Rozas, E., Peppler-Lisbach, C., Quintas-Soriano, C., Raymond, C.M., Ruiz-Mallén, I., van Riper, C.J., Zinngrebe, Y., Plieninger, T. (2020). Scientific and local ecological knowledge, shaping perceptions towards protected areas and related ecosystem services. *Landscape Ecology*, 1-19.

van Riper, C. J., Foelske, L., Kuwayama, S. D., Keller, R., & **Johnson, D.** (2020). Understanding the role of local knowledge in the spatial dynamics of social values expressed by stakeholders. *Applied Geography*, 123, 102279.

Shipley, N. J., **Johnson, D. N.**, van Riper, C. J., Stewart, W. P., Chu, M. L., Suski, C. D., Stein, J. A., & Shew, J. J. (2020). A deliberative research approach to valuing agro-ecosystem services in a worked landscape. *Ecosystem Services*, 42, 101083.

Johnson D.N., van Riper C.J., Chu, M., & Winkler-Schor, S. (2019). A comparative study of cultural ecosystem service values reported by recreationists in US and Australia Protected Areas. Invited to a special issue in *Ecosystem Services*, 37, 100919.

van Riper, C.J., Stamberger, L., Raymond, C. Keller, R., Winkler-Schor, S., Braito, M., & **Johnson, D.** (2019). Integrating multi-level values and environmental behavior reported by visitors to Denali National Park and Preserve. Invited to a special issue in *Sustainability Science*, 14(5), 1395-1408.

In progress

Johnson, D.N., & van Riper, C.J. (in preparation). Elucidating social-ecological perceptions of Interior Alaska: A fuzzy cognitive mapping approach. Target Journal: *Ecology & Society*.

Johnson, D.N., Shipley, N.J., van Riper, C.J., Kyle, G.T., Wallen, K.E., Landon, A., Absher, J. (in preparation). Place-based motivations and norms predict sustainable behavior in a National Forest. Target Journal: *Journal of Sustainable Tourism*.

Rogowski, J., van Riper, C.J., Salcido, E.L., & **Johnson, D.N.** (in preparation). Connecting social values and environmental behavior: The case of Denali National Park and Preserve. Target Journal: *Sustainability*.

Non-peer reviewed

Johnson, D., Brune, S., Dagan, D.T., Meier, E., Wilkins, E.J., and Zhang, H. (2020). A holistic strategy for carbon reduction programs in parks and protected areas: Leveraging three “fixes.” *Parks Stewardship Forum*, 36(3): 477–482.

SCHOLARSHIPS & GRANTS

\$750 John G and Anne A. Miller College of ACES Fund (2019)
 \$160 ISSRM Student Subsidy Grant (2019)
 \$250 NRES Educational Opportunity Travel Grant (2019)
 \$22,000 Jonathan Baldwin Turner Research Fellowship (2018)
 \$1,500 ACES Undergraduate Research Scholarship (2018)
 \$500 ACES Undergraduate Merit Scholarship (2018)
 \$800 ACES Undergraduate Research Travel Award (2018)

PRESENTATIONS

Paper Presentations

Johnson, D.N., van Riper, C.J. (2020). *Assessing preferences for climate change adaptation in Denali, Alaska using a stated choice analysis*. Paper presentation at the International Symposium on Society and Resource Management. Virtual Conference.

Leitschuh, B., Stewart, W.P., **Johnson, D.N.**, van Riper, C.J. (2020). *Place meanings to distinguish Native subsistence use: Exploring representations and legitimation in park policy*. Paper presentation at the Academy of Leisure Sciences Conference. Champaign, IL.

Rogowski, J., Salcido, E., van Riper, C.J., **Johnson, D.N.** (2020). *Connecting social values and environmental behavior: The case of Denali National Park and Preserve*. Paper presentation at The Academy of Leisure Sciences Conference. Champaign, IL.

van Riper, C.J., Stewart, B., **Johnson, D.**, Salcido, E., Rowe, G., Keller, R., & Andrade, R. (2020). *Inclusive conservation around Denali National Park and Preserve, US*. Paper presentation at an ENVISION project meeting, Vastra Harg, Sweden.

van Riper, C.J., **Johnson, D.N.**, Stewart, B., Leitschuh, B., & Keller, R. (2019) *Exploring baselines in the Denali region: Results from engaging local communities in discussions about change*. Paper presentation at an ENVISION project meeting, Amsterdam, Netherlands.

Johnson, D.N., van Riper, C.J. (2019). *Conducting a social-ecological inventory in the Denali Region of Alaska*. Paper presentation at the International Symposium on Society and Resource Management. Oshkosh, WI.

Johnson, D.N. (2019). *Enhancing understanding of diverse agro-ecosystem services of the Kaskaskia River Watershed with community stakeholders*. Lightning talk at the Graduates in Ecology and Evolutionary Biology Symposium. Urbana, IL

Johnson, D.N., Shipley, N.J., van Riper, C.J., Stewart, W., Chu, M., Suski, C., Stein, J.A. (2018). *Enhancing agro-ecosystem services: a study of ecosystem services through expert opinion*. Paper presentation at the National Great Rivers Research and Education Center Symposium. Alton, IL.

van Riper, C.J., Winkler-Schor, S., Stamberger, L., Keller, R., Braitto, M., Raymond, C., Eriksson, M., Golebie, E., & **Johnson, D.** (2018). *Integrating multi-level values and pro-environmental behavior in a protected area*. Invited presentation at the Valuing Nature Network Workshop, York University, United Kingdom, UK.

Johnson, D.N., van Riper, C.J., Chu, M., Winkler-Schor, S. (2018) *Comparing the social values of ecosystem services in US and Australian marine protected areas*. Paper presentation at the International Symposium on Society and Resource Management. Sandy, Utah.

Johnson, D.N., van Riper, C.J., Chu, M., Winkler-Schor, S. (2018) *Comparing the social values of ecosystem services in U.S. and Australian marine protected areas*. Paper presentation at the University of Illinois Undergraduate Research Symposium. Champaign, IL.

van Riper, C.J., **Johnson, D.**, & Winkler-Schor, S. (2018). *Do we know our neighbors? Investigating how values influence preferences for future growth scenarios*. Invited presentation at Denali National Park and Preserve, Alaska.

Poster presentations

Rogowski, J., Johnson, D.N., van Riper, C.J., Keller, R. (2019). *Connecting social values and environmental behavior: The case of Denali National Park and Preserve*. Poster presentation at the International Symposium on Society and Resource Management. Oshkosh, WI.

Johnson, D.N., Shipley, N.J., van Riper, C.J., Stewart, W., Chu, M., Suski, C., Stein, J.A. (2018). *Enhancing agro-ecosystem services: a study of ecosystem services through expert opinion*. Poster presentation at the National Great Rivers Research and Education Center Symposium. Alton, IL.

Johnson, D.N., van Riper, C.J., Chu, M., Winkler-Schor, S. (2018) *A comparative study of cultural ecosystem service values in U.S. and Australian marine protected areas*. Poster presentation at the Explore ACES symposium. Champaign, IL.

AWARDS & HONORS

- Dean's List (2015, 2016, 2017, 2018)
- Orville Bentley Award for Excellence in Undergraduate Research (2018)
- Outstanding Senior in Resource Conservation & Restoration Ecology (2018)

TEACHING AND MENTORING

Teaching

Graduate Teaching Assistant, NRES 287: Environment and Society, University of Illinois
Spring 2020

- Led weekly 50-minute classes for three groups of 20-22 students each
- Graded two essay assignments and provided feedback to students
- Managed lecture attendance records and Compass gradebook
- Placed on the "List of teachers ranked as excellent by their students" based on student course evaluations

Mentorship

Gillian Rowe, University of Illinois, Undergraduate Research Assistant (2018-Present)

Julianna Rogowski, University of Illinois, Undergraduate Research Assistant (2018)

PROFESSIONAL SERVICE

National and International Contributions

Member, International Association for Society and Natural Resources *Ad-hoc* Mentorship Committee (2020)

Member, International Association for Society and Natural Resources Student Affairs Committee (2020)

Co-Pod Coordinator, 500 Women Scientists Urbana-Champaign Pod (2018)

University, College, and Departmental Service

Co-chair, NRES Graduate Student Advisory Committee (2018-present)

Activity facilitator, NRES Freshman Field Day (2020)

Panel member, NRES New Student Orientation (2019, 2020)

Panel member, NRES undergraduate workshop on grad school applications (2019)

Alumni chair, College of ACES James Scholar Honors Program (2018)

Professional Affiliations and Memberships

Member, International Association for Society and Natural Resources (2018-Present)