

# GWENDŴR MEREDITH

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## EDUCATION

### Utah State University (USU)

Human Dimensions of Ecosystem Science and Management Ph.D.

Dissertation: Boundaries and Bridges in Rangeland Social-Ecological Systems –  
Studies of Collaboration, Innovation, and Information Flow

Advisor: Dr. Mark Brunson

GPA: 4.0/4.0

Logan, UT

August 2019

### Indiana University (IU)

Animal Behavior, Ecology, and Conservation B.A.

Minors: Psychology, Biology

GPA: 3.9/4.0, graduating with Highest Distinction & Phi Beta Kappa member

Bloomington, IN

May 2013

## EXPERIENCE

### University of Nebraska- Lincoln

*Assistant Professor of Social-Ecological Rangeland Science*

Lincoln, NE

August 2021

- Conducting and managing rangeland social science for resilient working landscapes within the School of Natural Resources, Department of Agronomy and Horticulture, and the Center for Resilience in Agricultural Working Landscapes

### Transformational Agro-ecosystems Science Team

*Postdoctoral Fellow*

Moscow, ID

October 2020 - August 2021

- Conducted rangeland social science research within the Long-term Agroecosystem Research (LTAR) network as both PI and co-PI
  - Stakeholders' Perception of Land-Use Change Trade-offs in Rangelands (PI)
  - What goes in must come out: Reconnecting the nutrient cycle in cattle production (PI)
- Supervised by Dr. J.D. Wulforst

### USU Socio-Ecological Systems Lab

*Ph.D. Student & Researcher*

Logan, UT

August 2014 - August 2019

- Conducted social science data collection using surveys, interviews, and focus-groups for the following dissertation or colleague collaborations:
  - Weather-Centric Rangeland Revegetation Planning
  - Management innovations for resilient public rangelands: Adoption constraints and considerations
  - Collaborative management of mule deer (*Odocoileus hemionus*) in southeastern Utah: an examination of the social-ecological network
  - Effects of wildfire on collaborative governance of rangelands - a case study of the 2015 Soda Fire
- Analyzed data using Qualtrics, UCINET, and RStudio.
- Supervised by Dr. Mark Brunson

## EXPERIENCE (CONT.)

### Kalahari Meerkat Project

Van Zylsrus, Northern Cape, South Africa

#### *Research Assistant*

May-September 2013

- Collected behavioral adlib and focal data on meerkats in the field twice daily
- Collaborated with other assistants at the research station
- Supervised by Dr. Tim Clutton-Brock at Cambridge University

### IU Animal Behavior Farm

Bloomington, IN

#### *Research Assistant*

January 2011-May 2013

- Studied the correlation between sociality and reproductive success in the Brown-headed Cowbird
- Collected behavioral data and conducted statistical analysis
- Completed honors thesis: "Social Integration in Brown-headed Cowbirds, *Molothrus ater*"
- Supervised by Drs. Meredith West, Drew King, and Gregory Kohn

## TEACHING

### Utah State University

Logan, UT

#### *Instructor of Record*

Developed curriculum for upper-level online and classroom instruction, Taught materials, Facilitated class discussions, & Assigned grades for ~25 students each semester

- Geography of Utah (online) Fall 2018
- Geography of Utah (in-person) Spring 2019
- Geography of Utah (online) Fall 2019

#### *Graduate Teaching Assistant*

Led discussions, Taught classes in instructor's absence, & Assigned grades for 74 students

- Human Dimensions of Natural Resource Management (in-person) Fall 2016

### Indiana University

Bloomington, IN

#### *Undergraduate Teaching Assistant*

Assisted the instructor, Dr. Susan Hengeveld, Instructed students in identifying Indiana birds, Led discussions, Facilitated students, & Assigned grades for ~35 students

- Ornithology Spring 2013

## PEER-REVIEWED PUBLICATIONS

Brunson, M.W., Huntsinger, L., **Meredith, G.R.**, Sayre, N. (2021). The future of social science integration in rangelands research, *Rangelands* (in press)

**Meredith, G.R.**, Bean, A., Bentley Brymer, A., Friedrichsen, C.N., Hurst, Z.M. (2021). Integrating human dimensions within the LTAR network to achieve agroecological system transformation, *Rangelands* (in press)

**Meredith, G.R.**, Brunson, M.W. (2021). Effects of wildfire on collaborative governance of rangelands - a case study of the 2015 Soda Fire. *Rangelands* (in press)

**Meredith, G.R.**, Brunson, M.W., Hardegee, S.P. (2021). Management innovations for resilient public rangelands: Adoption constraints and considerations. *Rangeland Ecology & Management*, 75, pp. 152-160.

Sayles, J., Garcia, M. M., Hamilton, M., Alexander, S., Baggio, J., Fischer, A. P., Ingold, K., **Meredith, G.R.** & Pittman, J. (2019). Social-ecological network analysis for sustainability sciences: a systematic review and innovative research agenda for the future. *Environmental Research Letters*, 14(9), 093003.

Hardegee, S. P., Abatzoglou, J. T., Brunson, M. W., Germino, M. J., Hegewisch, K. C., Moffet, C. A., . . . **Meredith, G. R.** (2018). Weather-Centric Rangeland Revegetation Planning. *Rangeland Ecology & Management*, 71(1), pp. 1-11.

Kohn, G.M., **Meredith, G.R.**, Magdaleno, F.R., King, A.P., & West, M.J. (2015). Sex differences in familiarity preferences within fission-fusion brown-headed cowbird, *Molothrus ater*, flocks. *Animal Behavior*, 106, pp.137-143.

Dohme, R., King, A. P., **Meredith, G. R.**, & West, M. J. (2014). Is Female Visual Signaling to Male Song Socially Regulated in Brown-headed Cowbirds? *Ethology*, 121(4), pp. 327-334.

Kohn, G. M., King, A. P., Dohme, R., **Meredith, G. R.**, & West, M. J. (2013). In the company of cowbirds, *Molothrus ater ater*: Robust patterns of sociability predict reproductive performance. *Journal of Comparative Psychology*, 127(1), pp. 40-48.

Kohn, G. M., King, A. P., Dohme, R., **Meredith, G. R.**, & West, M. J. (2013). Robust autumn social attributes predict spring courtship skills in juvenile female brown-headed cowbirds, *Molothrus ater*. *Animal Behaviour*, 85, pp. 727-732.

### Manuscripts under review:

- Spiegel, S., Webb, N.P., Boughton, E.H., Boughton, R.K., Bentley Brymer, A., Clark, P.E., Holifield Collins, C.D., Hoover, D.L., Kaplan, N., McCord, S.E., **Meredith, G.R.**, Porensky, L., Toledo, D., Wilmer, H., Wulforst, J.D., Bestelmeyer, B.T. Establishing indicators of sustainable intensification for rangelands with long-term collaborative research, *Rangelands*
- **Meredith, G.R.**, Baggio, J., Brunson, M.W. Collaborative management of mule deer in Southeastern Utah: an examination of the social-ecological network, *Ecology & Society*

## PEER-REVIEWED PUBLICATIONS (CONT.)

### Manuscripts in preparation:

- **Meredith, G.R.**, Spiegel, S. Kleinman, P.J.A. Human dimensions of nutrient cycling: operationalizing the manuresheds concept, *Journal of Environmental Quality*
- Friedrichsen, C.N., Hurst, Z.M., **Meredith, G.R.** Researching Aspirational Agriculture: Influences and Stakeholder engagement for transformational change within Agro-Innovation paradigms, *Research Policy*
- Spiegel, S., **Meredith, G.R.**, Bittman, S., Flynn, K.C., Kleinman P.J.A., Silveira, M.L.A., Vendramini, J.M.B. Recycling nutrients among distant links of the beef supply chain, *Journal of Environmental Quality*
- Bittman, S., Worth, Reid, Spiegel, S., Kleinman, P.J.A, Hunt, Javorek, **Meredith, G.R.**, Flynn, K.C. Vendramini, J.M.B. Distribution of livestock sectors in Canada: trends and implications, *Journal of Environmental Quality*

## UNIVERSITY AND DEPARTMENTAL SERVICE

### Utah State University

Logan, UT

*College of Natural Resources Graduate Student Council, Chairman*

Fall 2017 - May 2019

Managed monthly meetings of a thirteen-member council within my college that worked to bring grad student issues to the attention of the college and university. In April 2019 I was awarded the “Outstanding Personal Contribution Award” from USU’s Student Association.

*USU Grad Student Council, Natural Resources Representative*

Summer 2017 – May 2019

Served as liaison between the College of Natural Resources and Utah State University for grad students, Advocated for increased grad student health insurance options and transparency in university policies

*Empowering Teaching Excellence: Preparing Future Faculty Committee*

Fall 2018 – May 2019

Researched and communicated what resources graduate instructors desire, Co-developed and promoted a teaching certificate program for grad students within departments not offering any training

*Environment & Society Graduate Student Representative*

Fall 2016 - Spring 2017

Participated within the College of Natural Resources Graduate Student Council, Attended Environment & Society departmental faculty meetings, Served as the liaison between department and college for Environment & Society grad students

*Ecology Center Speaker Selection Committee Co-chair*

March 2016 - May 2017

Organized operations of USU’s Ecology Seminar Series, bringing researchers from all over the world to our campus to present their research

*Ecology Center Speaker Selection Committee Member*

March 2015 - March 2016

Helped select and rank potential speakers for USU’s Ecology Seminar Series

*Ecolunch Coordinator*

Fall 2015

Organized speakers for weekly Ecology lunchtime talks targeted toward graduate students

## PRESENTATIONS AT PROFESSIONAL MEETINGS

### PAPER PRESENTATIONS

- G. Meredith**, M. Brunson, The role of collaboration after ecosystem disturbance. Northwest Regional Invasive Species & Climate Change Network (NW RISCC) 2021 Symposium, Online, 2021.
- G. Meredith**, C. Flynn, S. Spiegel, R. Meinen, “Manuresheds: Advancing nutrient recycling in US agriculture,” Livestock and Poultry Environmental Learning Community (LPELC), Online, 2021.
- G. Meredith**, “Producers capacity to connect within manuresheds: Identifying constraints and opportunities,” Tri-Societies (ASA, CSSA, & SSSA) Annual Meeting, Online, 2020.
- G. Meredith**, A. Bean, C. Friedrichsen, Z. Hurst, “Evaluating rangeland management innovations: adoption constructs and capacity for change”, Society for Range Management Annual Meeting, Denver, Colorado, 2020.
- G. Meredith**, M. Brunson, “Collaborative rehabilitation following the Soda Fire”, Society for Range Management Annual Meeting, Denver, Colorado, 2020.
- G. Meredith**, M. Brunson, “Effects of wildfire on collaborative governance of rangelands – a case study of the 2015 Soda Fire”, International Symposium on Society and Resource Management, Oshkosh, Wisconsin, 2019.
- G. Meredith**, J. Baggio, M. Brunson, “Inter-agency collaborative management of mule deer in Southeastern Utah: Examining the social-ecological network”, International Symposium on Society and Resource Management, Salt Lake City, Utah, 2018.
- G. Meredith**, M. Brunson, “Inter-agency management of rangelands: innovation adoption and scale mismatches within networks”, Student Research Symposium, Utah State University, 2017.
- G. Meredith**, M. Brunson, “Inter-agency management of rangelands: innovation adoption and scale mismatches within networks”, Environment and Society Symposium, Utah State University, 2017.
- G. Meredith**, M. Brunson, “Innovation adoption in rangeland management: development of a weather-centric restoration tool”, Student Research Symposium, Utah State University, 2016.
- G. Meredith**, M. Brunson, “Managers use of external information sources for restoration decisions”, Society for Range Management Annual Meeting, Corpus Christi, Texas, 2016.
- G. Meredith**, G. Kohn, M. West, & A.P. King, “Social integration in Brown-headed Cowbirds, *Molothrus ater*”, Honors Research Symposium, Indiana University, 2013.

### POSTERS

- G. Meredith**, M. Brunson, “Inter-agency management of rangelands: Legal barriers and learning effects on innovation adoption”, Resilience Conference, Stockholm, Sweden, 2017.
- G. Meredith**, J. Baggio, M. Brunson, “Inter-agency collaboration in natural resource management: The case for exponential random graph models”, Resilience Conference, Stockholm, Sweden, 2017.

## PRESENTATIONS AT PROFESSIONAL MEETINGS (CONT.)

**G. Meredith**, M. Brunson, “A climate-based rangeland management tool – using manager input to increase adoption success”, Student Research Symposium, Utah State University, 2015.

**G. Meredith**, G. Kohn, M. West, & A.P. King, “Social integration in Brown-headed Cowbirds, *Molothrus ater*”, Animal Behavior Conference, Indiana University, 2013.

## TRAINING

**Social Network Analysis Short Course** Annapolis, MD  
*National Socio-Environmental Synthesis Center* July 2018

**USU Grant Proposal Writing Workshop** Logan, UT  
*Utah State University* September 2017

**Emma Marris Science Writing Workshop** Logan, UT  
*Utah State University* March 2017

**Introduction to Social Network Analysis** Lexington, KY  
*LINKS Center for Social Network Analysis* June 2016  
*University of Kentucky*

## FELLOWSHIPS & GRANTS

**Redd Center for Western Studies** Spring 2018  
Summer Grant for Upper Division and Graduate Students

**S.J. & Jessie E. Quinney Foundation** Fall 2014 – Fall 2018  
Doctoral Fellowship

## PROFESSIONAL SOCIETIES

- Society for Range Management (Reviewer for *Rangeland Ecology & Management* and *Rangelands*, Guest Managing Editor for *Rangelands*)
- International Association for Society and Natural Resources (Reviewer for *Society & Natural Resources*, Moderator for 2018 & 2019 ISSRM)
- American Society of Agronomy