

# BETHANN GARRAMON MERKLE, MFA

## Curriculum Vitae

Associate Research Scientist, Wyoming Migration Initiative  
Director, University of Wyoming Science Communication Initiative

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## ACADEMIC RECORD

Master of Fine Arts (MFA), Creative Writing (science writing; nonfiction)

2017 University of Wyoming; Laramie, WY  
Title of Thesis: Naming the Bones: Growing Up, Growing Out, and Going Home. This nonfiction thesis is the core of a memoir-in-development about ecology, local food, and how one's relationship to place changes from childhood through adulthood.  
4.0 GPA | An MFA is a recognized, terminal degree.

Bachelor of Arts (B.A.), Environmental Studies

2007 University of Montana, Missoula, MT  
Title of Honors Project: History and Contemporary Management Recommendations of the Associated Students of the University of Montana Community Garden.

- Emphasis in sustainable food and agriculture
- Wilderness Studies minor, Wilderness and Civilization Program, UM Wilderness Institute
- Studio Fine Arts minor, photography emphasis
- 3.93 GPA, University Scholar, Davidson Honors College

## PROFESSIONAL APPOINTMENTS

2018-present Associate research scientist, Wyoming Migration Initiative, Department of Zoology and Physiology, University of Wyoming

Current Job Description: 30 % Teaching | 55% Research | 5% Service | 5% Admin | 5% Professional Development

2018-present Director, University of Wyoming Science Communication Initiative, University of Wyoming.

2017-2018 Associate academic professional research scientist, Wyoming Migration Initiative, Department of Zoology and Physiology, University of Wyoming.

## SELECTED PUBLICATIONS & EXHIBITIONS

I have co-edited a textbook and authored over 300 articles and essays published in journals including *BioScience*, *Ecology and Society*, *Journal of Agriculture, Food Systems, and Community Development*, and *Nature*, along with digital and print popular outlets such as *American Scientist*, *BC Nature*, *Ecotone* (Ecological Society of America), *EdibleMissoula*, *Fair Chase*, *Quebec Chronicle-Telegraph*, and *Western Confluence*. My publications emphasize wildlife ecology, science and sustainability, art-science integration, and education/outreach on these topics. I have extensive experience writing and editing for print and digital outlets, in journalism, on government reports, and as outreach. This outreach is/was conducted through educational programs, writing and publishing, fundraising, community development, and via media outlets including newspapers, television, radio, websites/blogs, and social media. I also provide editorial support (e.g., consulting editor or hired for English language and other editing purposes) for articles published in scientific peer-reviewed journals focused on ecology, wildlife management, natural history, public health, and food systems, along with editing for government reports and popular publications. I am currently an invited Associate Editor of *Natural Sciences Education*, and invited Founding Editor of the Communicating Science section of *The Bulletin of the Ecological Society of America*.

## Books

1. Kauffman, Matthew J., James E. Meacham, Hall Sawyer, Alethea Y. Steingisser, William J. Rudd and Emilene Ostlind. Illustrated by **B.G. Merkle** and E. Rahel. 2018. *Wild Migrations: Atlas of Wyoming's Ungulates*. Oregon State University Press.
2. Krausman, Paul. Illustrated by **B.G. Merkle**. 2017. *And Then There Were None: The Demise of Desert Bighorn Sheep in the Pusch Ridge Wilderness*. New Mexico State University Press: Albuquerque, NM.
3. Kinney, K., **B.G. Merkle**, and S.C. Vélez, eds. 2016. *Writing @ 7200 Feet: First-Year College Composition and Rhetoric—Or a Beginner's Guide to Composing Academic, Civic, and Multimodal Genres*. Hayden McNeil: Plymouth, MI.
4. Invited manuscript proposal. **Merkle, B.G.** *Integrating Drawing into Science Education and Engagement: Science-Based Best Practices and Pro Tips*. Alliance for the Arts in Research Universities' imprint of University of Michigan Press.
5. In prep. **Merkle, B.G.** *Hunting for a Sense of Place: Exploring Ecology, Myth, and Ritual on Montana's Rocky Mountain Front*. In prep for submission to Milkweed Press.

## Peer-Reviewed Publications

6. Januchowski-Hartley, S.R., N. Sopinka, N., **B.G. Merkle**, C. Lux, A. Zivian, P. Goff, and S. Oester. 2018. Poetry as a creative practice to enhance engagement and learning in conservation science. *BioScience*. Vol 68(10): biy105. [doi.org/10.1093/biosci/biy105](https://doi.org/10.1093/biosci/biy105).
7. Polfus, J.L., D. Simmons, M. Neyelle, W. Bayha, F. Andrew, L. Andrew, **B.G. Merkle**, K. Rice, and M. Manseau. 2017. Creative Convergence: Exploring Bicultural Diversity through Art. *Ecology and Society* 22(2): 4. [doi.org/10.5751/ES-08711-220204](https://doi.org/10.5751/ES-08711-220204).

## Peer-Reviewed Publications and White Papers Submitted or in Prep

- **Invited. Merkle, B.G.**, M. Downs, and A. Hettinger. 2019. "Institutional Careers in Science Communication and Engagement." Invited commentary in review in *Frontiers in Ecology and Evolution*. Refereed.
- **Invited Editor and co-author.** Strickland, J., **B.G. Merkle**, P. Deibert, H. Nikonow, D. Edmunds, S. Soileau, T. Messmer, C. Rose, B. Kenna, and M. McFadzen. Strategies for Communicating Science chapter, *Sagebrush Conservation Strategies*, Western Association of Fish and Wildlife Agencies. In review by WAFWA.

- **Merkle, B.G.**, J.A. Merkle and D. Fortin. Something to talk about: bison vocal communication does not reveal public information about forage quality. In prep for *Journal of Wildlife Management* after rejection from *Animal Behavior*. Refereed.
- Harris, N. C., **B.G. Merkle**, A. Hettinger, J. Childress, K. Rowell. Scrutinizing, defining, and broadening impact of science scholars. In prep for *Science Communication*. \*I initiated the paper, and I organized the conference session that led to the idea of the paper. Refereed.
- **B.G. Merkle**, B. Barber, K. Vaughan, and K. Landreville. “Attitudes, Capabilities, and Motivations for Public Engagement and Communication about Research and Creative Scholarship Activities at Wyoming’s Only University.” IRB exempt, # 20180104KL01819. In prep for *Science Communication*. Refereed.
- **Merkle, B.G.**, J.A. Merkle, P. Lunzer, B. Barber, and M. Bourque. Establishing a Baseline: Documenting how Ecological Concepts are Represented in Children’s Books. In prep for *Biology Teacher*. Refereed.

## Exhibitions & Public Artworks

1. **Merkle, B.G.** 2019. Thunder comin’ in; Hayfield Rosé; Wild Rose(hipsters). Juried selection of artwork for Lander public art project (beautifying electrical boxes). AT Lander Arts and Sciences, Lander, WY.
2. **Merkle, B.G.**, M. Thompson Stanton, and B. Gellis. 2019. “Science: The Light of Human Knowledge.” 1 of 6 teams invited to submit final proposals for building-wide art design and installation in the University of Wyoming’s newest building, the Science Initiative building. Laramie, WY.
3. **Merkle, B.G.** 5/2018. “Antelope Reservoir” – handmade light-box/artist book about pronghorn ecology, hunting and mystique. In the exhibition: 2018 Book Arts Juried Exhibition, University of Wyoming Art Department, Laramie, WY.
4. **Merkle, B.G.** 5/2018. “Pica pica” – set of three handmade artist books about magpie lore. In the exhibition: 2018 Book Arts Juried Exhibition, University of Wyoming Art Department, Laramie, WY.
5. **Merkle, B.G.** 5/2018. “State of Mine” – set of three handmade artist books exploring the parallels between childhood in Maine and Montana. Co-created with Emily Powers. In the exhibition: 2018 Book Arts Juried Exhibition, University of Wyoming Art Department, Laramie, WY.
6. **Merkle, B.G.** 5/2018. “Rhythms of Childhood” – set of three handmade artist books illustrating the ecology of my childhood (Montana’s Rocky Mountain Front). In the exhibition: 2018 Book Arts Juried Exhibition, University of Wyoming Art Department, Laramie, WY.
7. **Merkle, B.G.** 4/2018-6/2018. “Avalanche Canyon.” In the exhibition: What’s Your Message. 4th Street Studios and Opal Studios, Laramie, WY.
8. **Merkle, B.G.** 4/2018-6/2018. “Stopover.” In the exhibition: What’s Your Message. 4th Street Studios and Opal Studios, Laramie, WY.
9. **Merkle, B.G.** 3/2018-4/2018. In the exhibition: Art in the Museum: Inspired by Life. University of Wyoming Museum of Vertebrates and Biodiversity Institute. Laramie, WY (on campus).
10. **Merkle, B.G.** 2/2018-3/2018. “Prickly pear, cast iron bas relief.” In the exhibition: Laramie Audubon Society: Inaugural Art Show. Laramie Audubon Society and Biodiversity Institute. Laramie, WY.
11. **Merkle, B.G.** 11/2017-1/2018. *An Ecologically True Story: Rethinking the Tale of the Tortoise and the Hare*. Solo multimedia exhibition featuring graphite drawings, watercolors, monotype prints, new media sculptures, installations, and creative writing interpretive text and audios. Biodiversity Institute, University of Wyoming, Laramie, WY.
12. **Merkle, B.G.** 2017-2018. “School of the High Plains.” Laramie, WY (off campus). I was one of 13 artists commissioned by the Laramie Mural Project to design and paint a component of the expansion of the downtown Laramie “Gill Street” mural, which features fish designed to evoke Wyoming icons.
13. **Merkle, B.G.** 2007. *Visceral Biogeography*. Solo photography exhibit of photographs printed on linen, using traditional, wet darkroom techniques. Liquid Planet, Missoula, MT.
14. **Merkle, B.G.** and other students. 2005. Photography of Glacier National Park: Photography Class Exhibition. The Dark Room, Missoula, MT. *I co-organized this exhibition, along with another University of Montana photography student.*

## Non-Refereed Journal Publications

15. **Invited. Merkle, B.G.** 2019. Writing Science: Best Practices for the Images that Accompany Your Writing. *The Bulletin of the Ecological Society of America*. Early view. [doi.org/10.1002/bes2.1536](https://doi.org/10.1002/bes2.1536).
16. **Invited.** Byerley, P., **B.G. Merkle**, and M. Hepner. 2019. Renewed Hope for Coastal Marshes in Louisiana. *American Scientist* 107(2): 98-105. [doi.org/10.1511/2019.107.2.98](https://doi.org/10.1511/2019.107.2.98)
17. **Invited. Merkle, B.G.** 2019. Writing Science: Transforming Students' Science Writing by Tapping into Writing Instruction Scholarship and Best Practices. *The Bulletin of the Ecological Society of America* 100(1): e01487. [doi.org/10.1002/bes2.1487](https://doi.org/10.1002/bes2.1487).
18. Hettinger, A., A. Kumar, T. Eaves, S. Anderson, **B.G. Merkle**, and S. Bayer. *In press*. Extending the Vision: Highlighting the Human Dimensions of the Ecological Society of America. *The Bulletin of the Ecological Society of America*.
19. **Invited. Merkle, B.G.** 2018. Perspective: Drawn to Science. Outlook: Science and Technology Education. *Nature* 562: S8-S9. [doi.org/10.1038/d41586-018-06832-0](https://doi.org/10.1038/d41586-018-06832-0).
20. **Invited. Merkle, B.G.** 2018. Book Review: The Chicago Guide to Communicating Science, 2nd ed. Scott L. Montgomery. 2017. University of Chicago Press, Chicago, Illinois. 336 pp. \$25.00 paperback. ISBN: 9780226144504. *The Journal of Wildlife Management*. [doi.org/10.1002/jwmg.21606](https://doi.org/10.1002/jwmg.21606)
21. **Invited. Merkle, B.G.** 2018. Tips for communicating your science with the press: Approaching journalists. *Bulletin of the Ecological Society of America* 99(4): e01430. [doi.org/10.1002/bes2.1430](https://doi.org/10.1002/bes2.1430).
22. **Invited.** Christensen, K., **B.G. Merkle**, and B. Marsicek. 2018. Integrating Art, Science, and Community Engagement: The University of Wyoming Art Museum's Ballengée Project. Invited case study in *Informal Learning Review* 148(1): 21-27.
23. **Invited.** Ellison, A., C. LeRoy, K. Landesbergen, E. Bosanquet, D. B. Borden, P. CaraDonna, K. Cheney, R. Crystal-Ornelas, A. DeFreece, L. Goralnik, E. Irons, **B.G. Merkle**, K. O'Connell, C. Penick, L. Rustad, M. Schulze, N. Waser, and L. 2018. Art/Science Collaborations: new Explorations of Ecological Systems, Values, and their Feedbacks. *Bulletin of the Ecological Society of America*. 99(2): 180-191. [doi.org/10.1002/bes2.1384](https://doi.org/10.1002/bes2.1384).
24. **Invited. Merkle, B.G.** 2015. Why scientists (even nonartists) should draw. *Crastina*. ([view article](#))
25. **Invited. Merkle, B.G.** 2013. Book Review: Whole Measures only partially measures up. *Journal of Agriculture, Food Systems, and Community Development*. ([view review](#))

## Non-Refereed Publications Submitted or In Prep

26. **Invited. Merkle, B.G.** 2019. Writing Science: Transforming the Academic Poster into a Writing and Design Experience that Builds Transferable Skills. *The Bulletin of the Ecological Society of America*.
27. **Merkle, B.G.** *An Ecologically True Story: Reinterpreting the Fable of the Tortoise and the Hare*. In Prep for *Orion* magazine.
28. **Merkle, B.G.** Pica Tidings: Finding Myself in the Lore and Natural History of the Black-Billed Magpie. Long-form essay in revision for *Ecotone* after rejection from *Orion*.

## Popular Publications

*Selected publications are listed below; a complete curriculum vitae is available upon request.*

29. **Invited. Merkle, B.G.** 2018. Poll Results: Why (some) people do and don't teach writing in science courses. *Dynamic Ecology*. [www.dynamicecology.wordpress.com](http://www.dynamicecology.wordpress.com).
30. **Invited. Merkle, B.G.** 2018. Wild Migrations: A new atlas puts Wyoming's ungulate migrations on the map. *UWYO Magazine*. 20(1): 68-69.
31. **Invited. Merkle, B.G.** 2018. A Forest After Fire: Regeneration, Resurrection, and Responsibility. *Root & Star magazine*. Issue 19.
32. **Invited. Merkle, B.G.** 2018. Marvelous Maiasaura: The 'Good Mother Lizard' Who Changed How We Think about Dinosaurs. *Root & Star magazine*. Issue 14.
33. **Invited. Merkle, B.G.** 2018. Invisible Journeys: Wyoming's Incredible, Migratory Pronghorn. *Root & Star magazine*. Issue 13.

34. **Merkle, B.G.** 2017. Amphibious Citizen Scientists. *Western Confluence*. ([view article](#); I also created the accompanying illustrations and photos.)
35. **Merkle, B.G.** 2016. Green Fire. *Poems Across the Big Sky, II*. Many Voices Press: Kalispell, MT.
36. **Merkle, B.G.** 2016. Drawn to Caribou. *American Scientist* 104(1): 16-18. ([view article](#))
37. **Merkle, B.G.** 2015. Drawn to Québec: An eel is an eel is an eel, or is it? *Québec Chronicle-Telegraph*. ([view article](#))
38. **Merkle, B.G.** 2015. Drawn to the West: Rare fireflies light up Montana. *Laramie Boomerang*. ([view article](#))
39. **Merkle, B.G.** 2015. Drawn to the West: What's wrong with that sagebrush? *Laramie Boomerang*. ([view article](#))
40. **Merkle, B.G.** 2015. Clean and Unclean: Eating Meat. *The Learned Pig*. ([view article](#))
41. **Merkle, B.G.** 2014. Drawn to Québec: The buzz about bees. *Québec Chronicle-Telegraph*. ([view article](#))
42. **Merkle, B.G.**, editor. 2014. Celebrating 25 Years of Chronicling Our Community: The Quebec Chronicle-Telegraph, North America's Oldest Newspaper (since 1764). *Quebec Chronicle-Telegraph*. 250th anniversary special edition magazine I edited and co-produced for the *Québec Chronicle-Telegraph's* 250th anniversary. ([view magazine](#))
43. **Merkle, B.G.** 2014. Pickled winter: Is the environment eating too much salt? *Québec Chronicle-Telegraph*. ([view article](#))
44. **Merkle, B.G.** 2014. Local scientists "say cheese." *Québec Chronicle-Telegraph*. ([view article](#))
45. **Merkle, B.G.** and J.A. Merkle. 2013. A park where the buffalo roam. *BC Nature*.
46. **Merkle, B.G.** 2013. Tradition and sustainability in a Bordeaux bottle & Bordeaux-Québec Connection gets personal. *Québec Chronicle-Telegraph*. ([view article](#))
47. **Merkle, B.G.** 2013. Nocturnal wonders: moths outshine butterflies at night. *Québec Chronicle-Telegraph*. ([view article](#))
48. **Invited. Merkle, B.G.** and J. A. Merkle. 2013. A glimpse of field work in the "Land of the Living Skies." Centre d'étude de la forêt/the Centre for Forest Research.
49. **Merkle, B.G.** 2013. Conserving Québec's caribou, Part III: A taste of heritage. *Québec Chronicle-Telegraph*. ([view article](#))
50. **Merkle, B.G.** 2013. Conserving Québec's caribou, Part II: Woodland caribou not "out of the woods." *Québec Chronicle-Telegraph*. ([view article](#))
51. **Merkle, B.G.** 2013. Up close and personal with a caribou researcher, part I. *Québec Chronicle-Telegraph*. ([view article](#))
52. **Merkle, B.G.** 2013. Orcas iced in: a hot topic in the frozen North. *Québec Chronicle-Telegraph*. ([view article](#))
53. **Merkle, B.G.** and J. A. Merkle. 2012. Conservation photography as more than just a hobby, part II. *Early Career Ecologists*. ([view article](#))
54. **Merkle, B.G.** and J. A. Merkle. 2012. Conservation photography as more than just a hobby, part I. *Early Career Ecologists*. ([view article](#))
55. Merkle, J. A., P. R. Krausman, and **B. G. Merkle**. 2012. How 'bout them apples: Insights on reducing human-bear conflicts. *Fair Chase*. ([view article](#))
56. **Merkle, B.G.** 2012. Local students address the "Kestrel Conundrum." *Québec Chronicle-Telegraph*. ([view article](#))
57. **Garramon, B.** 2008-2010. Missoula Urban Demonstration Project. Editor, graphic designer and co-author of quarterly journal, *Backyard Culture*; co-author of historical essays and timelines chronicling organization's history.
58. **Garramon, B.** 2003-2004. Columnist, *The Technocrat*, Montana Tech of the University of Montana, Butte, Montana.

## Videos & Films

59. Nickerson, G., T. Zaffarano, M. Kauffman, and **B.G. Merkle**. 2017. "Travis Zaffarano, a research profile: A Cody native studies elk using camera traps." ([view video](#)) *Co-producer*
60. Nickerson, G., **B.G. Merkle**, M. Kauffman. 2017. "Digging Migration: Wildlife Archaeology Stories." *Co-producer and co-videographer*. ([view video](#))

61. Nickerson, G., **B.G. Merkle**, M. Kauffman. 2017. “Digging Migration: Bison Archaeology in Wyoming.” *Co-producer and co-videographer.* ([view video](#))
62. Nickerson, G., **B.G. Merkle**, M. Kauffman. 2017. “Digging Migration: Hunting Mammoth in Wyoming 13,000 Years Ago.” *Co-producer and co-videographer.* ([view video](#))
63. Nickerson, G., **B.G. Merkle**, M. Kauffman. 2017. “Digging Migration: Wyoming’s Ancient Pronghorn Corridor.” *Co-producer.* ([view video](#))
64. Nickerson, G., M. Kauffman, and **B.G. Merkle**. 2017. “Wildlife Crossings in Wyoming Really Work for Pronghorn, Deer, and People.” *Co-producer.* ([view video](#))
65. Nickerson, G., B. Robb, and **B.G. Merkle**. 2017. “For Wyoming’s Mule Deer, Eclipse was a Great Opportunity...to Nap?” *Co-producer.* ([view video](#))
66. Nickerson, G., and **B.G. Merkle**. 2017. “Size Matters – For Understanding Migratory Mule Deer Group Dynamics.” *Co-producer.* ([view video](#))
67. Nickerson, G., M. Kauffman, **B.G. Merkle**, and H. Sawyer. 2017. “Pronghorn Don’t Cross I-80, Do They?” *Co-producer.* ([view video](#))
68. Nickerson, G., M. Kauffman, **B.G. Merkle**, and J. Merkle. 2017. “Not All Mule Deer Migrate the Same Distance. That’s a Good Thing.” *Co-producer.* ([view video](#))
69. Nickerson, G., J. Merkle, S. Dwinnell, **B.G. Merkle**, and M. Kauffman. 2017. “Surfing the Green Wave: A Roadside Explanation of Mule Deer Migration.” *Co-producer.* ([view video](#))
70. Participant, along with Professor David Romtvedt, in “The Tension and Inspiration of Place: MFA Conversations.” 2017. Co-produced by University of Wyoming videographer Ali Grossman and Jeffery Lockwood, UW MFA program. Laramie, Wyoming. ([view video](#))
71. Participant in “Drawn to Science: Exploring the Historical and Contemporary Synergies between Drawing, Creativity and Science.” 2017. Video of my invited lecture for the University of Wyoming Zoology/Physiology Dept., Laramie, Wyoming. ([view video](#))
72. **Merkle, B.G.**, producer. 2014. 250<sup>th</sup> anniversary commemorative video for the *Québec Chronicle-Telegraph*, North America's oldest newspaper. Quebec City, Quebec, Canada. ([view video](#))
73. **Merkle, B.G.**, producer. 2014. Interview of Bethann Garramon Merkle, 250<sup>th</sup> anniversary coordinator; one in a series of interviews filmed for the 250<sup>th</sup> anniversary commemorative video for the *Québec Chronicle-Telegraph*, North America's oldest newspaper. Quebec City, Quebec, Canada. ([view interview](#), excerpted for the film mentioned above)

## Websites

I have served as a consultant, webmaster, designer, and editor, as well as a content writer, blog author, and/or photographer, for a wide range of entities, including: sustainability organizations, literacy organizations, wildlife researchers, small businesses, and professional organizations. In these capacities, I have developed websites, conducted website redesigns and enhancement to increase user-accessibility, and have done on-going website management.

2015-present [EcologicallyTrueStory.org](http://EcologicallyTrueStory.org), science communication storytelling

2014-present Communication and Engagement Section, Ecological Society of America,

[www.esa.org/communication-engagement](http://www.esa.org/communication-engagement); formerly [advancingecocomm.wordpress.com](http://advancingecocomm.wordpress.com)

2012-2014 Green Ministries of the Anglican Diocese of Quebec, [espritvertqc.com](http://espritvertqc.com) (no longer operational)

2012 Yamaska Literacy Council, [yamaskaliteracy.ca](http://yamaskaliteracy.ca)

2011-present CommNatural communications consulting, [commnatural.com](http://commnatural.com)

2011-2014 Quebec Chronicle-Telegraph, [qctonline.com](http://qctonline.com)

2011-2014 Literacy Quebec, [literacyquebec.org](http://literacyquebec.org)

2011 Verger Trottier, [vergertrottierorchard.blogspot.com](http://vergertrottierorchard.blogspot.com) (no longer operational)

2010-2013 Lifelong Learning Quebec, [lifelonglearningquebec.org](http://lifelonglearningquebec.org)

2010-2013 Quebec City Reading Council, [qcrc.org](http://qcrc.org)

2010 [Jamerkleresearch.wordpress.com](http://Jamerkleresearch.wordpress.com)

2009-2010 Missoula Urban Demonstration Project, [mudproject.org](http://mudproject.org)

2008-2009 Grow Choteau, [sites.google.com/site/GrowChoteau](http://sites.google.com/site/GrowChoteau)

2007-2009 Boone and Crockett Club, webpages specific to their educational programs, [boone-crockett.org](http://boone-crockett.org)

## EDITORIAL CONTRIBUTIONS

- 2018-present Editor-in-chief, webmaster, University of Wyoming Science Communication Initiative. [www.uwyo.edu/wysci](http://www.uwyo.edu/wysci).
- 2018-present Section editor, Communicating Science, *The Bulletin of the Ecological Society of America*. Recruited to launch this section and write a quarterly “Writing Science” column for it.
- 2018-present Contributing editor, *The Journal of the Guild of Natural Science Illustrators*
- 2018 Invited Editor and co-author, Strategies for Communicating Science chapter, *Sagebrush Conservation Strategies* white paper report, Western Association of Fish and Wildlife Agencies.
- 2014-present Editor-in-chief, webmaster, Communication and Engagement Section of the Ecological Society of America. [www.esa.org/communication-engagement](http://www.esa.org/communication-engagement)
- 2009-present Contributing editor and editorial committee member, *Journal of Food Systems, Agriculture, and Community Development*

## Manuscript editing

I have provided editorial support for manuscripts which have been published or are in press in nearly 20 peer-reviewed journals and popular publications, including:

1. *African Journal of Ecology*
2. *Animal Conservation*
3. *Ecology Letters*
4. *Fair Chase*
5. *Human-Wildlife Interactions*
6. *International Journal of Applied Earth Observation and Geoinformation*
7. *Journal of Agriculture, Food Systems and Community Development*
8. *Journal of Foodborne Pathogens and Disease*
9. *Journal of Food Protection*
10. *Journal of Mammalogy*
11. *Journal of Peasant Studies*
12. *Journal of Wildlife Management*
13. *PLOS Biology*
14. *PLOS Blogs*
15. *Quebec Chronicle-Telegraph*
16. *The Wildlife Society Bulletin*
17. *Ursus*

## Government report editing

I have also provided editorial support for the Sahtú Renewable Resources Board (SRRB), a First Nations collaborative conservation organization tasked with managing hunting and wildlife resources for/by the Dene First Nation (Northwest Territories, Canada). For the SRRB, I edited government reports and multilingual conservation outreach books and materials.

## Conference presentation editing

I have provided editorial support for presentations made at conferences across North America, including: City Club Missoula, Ecological Society of America Annual Meetings (2013-present), an Emerging Issues across Rural-Urban Interfaces conference, several meetings of the Montana and Wyoming chapters of The Wildlife Society, several annual conferences of The Wildlife Society, and an Urban Wildlife Ecology and Management Conference.

## RESEARCH & CREATIVE SCHOLARSHIP

1. Barber, B., **B.G. Merkle**, K. Landreville, and J. Crait. In progress. “Student Attitudes, Capabilities, and Motivations Before and after a Science Communication Course.” IRB exempt, #20170824BB01656.

2. Landreville, K., **B.G. Merkle**, B. Barber, and K. Vaughan. 2017-present, in progress. UW Public Engagement and Communication Survey. A survey to quantify University of Wyoming campus-wide attitudes, capabilities, and motivations for public engagement and communication about research and creative scholarship activities. IRB exempt, # 20180104KL01819.
3. **Merkle, B.G.** “Establishing a baseline: Documenting how Ecological Concepts are Represented in Children’s Books.” In progress. Visual critique/content analysis of Caldecott Medal-winning books and turn-of-the-century western children’s books (held in the University of Wyoming’s Toppan Rare Books Collection). A research presentation on this topic was presented at the 2017 annual meeting of the Ecological Society of America. Anticipated products: an academic article for submission in a journal such as *Biology Teacher*, along with workshops which will facilitate discussions between librarians, teachers, children's book creators, and biologists. [View project webpage](http://ecologicallytruestory.org) at ecologicallytruestory.org.
4. **Merkle, B.G.** *An Ecologically True Story: Reinterpreting the Fable of the Tortoise and the Hare*. Research on-going in Arizona, East Africa, and Europe. The manuscript in progress and the existing traveling exhibition focus on a) investigating the conservation and social/cultural issues in ecosystems where tortoises and hares co-exist, and b) the value of multidisciplinary methods for researching and telling this story. Non-refereed.
5. **Merkle, B.G.** *Naming the Bones: Ecological Oblivion and Discovery in the Heart of the Rockies*. This research-based, book-length collection of essays focuses on the role of storytelling in a) one’s development of ecological knowledge and b) hunting and gardening as central ways of engaging in local landscapes and socio-cultural history. Non-refereed.

## AWARDS, HONORS & SCHOLARSHIPS

- 2019 Honorable Mention, Education Section Publication of the Year Award, Ecological Society of America. Award received for Januchowski-Hartley, S.R., N. Sopinka, N., **B.G. Merkle**, C. Lux, A. Zivian, P. Goff, and S. Oester. 2018. Poetry as a creative practice to enhance engagement and learning in conservation science. *BioScience*. Vol 68(10): biy105. [doi.org/10.1093/biosci/biy105](https://doi.org/10.1093/biosci/biy105).
- 2019 Shortlisted (1 of 5 teams, out of 220 submissions). Art in Public Buildings Project for University of Wyoming Science Initiative new research facility. Potential contract: \$90,000.00. Co-PIs: B. Gellis and M. Thompson Stanton.
- 2019 Invited/Nominated. Associate Member of Sigma Xi – Research Scholarship Honors Society.
- 2019 Member of 2019 cohort of Leaving the Light On: A LAMP Educator’s Community (ELC), Science Initiative, University of Wyoming. Selected through competitive application process to participate in inaugural cohort of an extension of the Learning Actively Mentoring Program, an on-going faculty and grad student training program. ELC participants have a responsibility to be a change agent in the continued shift to active-learning, student-centered pedagogies the University of Wyoming.
- 2018 Invited. Founding section editor. Communicating Science section, *The Bulletin of the Ecological Society of America*.
- 2018 Invited. Founding columnist. Writing Science column, *The Bulletin of the Ecological Society of America*.
- 2018 Invited. Advisory council member. Science Communication Professional Development for Scientists Initiative by the Louisiana Universities Marine Consortium.
- 2018 Invited. Lead, Training Section. “Strategy Development: Increasing the Impact of Public Engagement Within and Beyond ESA,” Ecological Society of America (4-person committee funded by ESA; I am leading a team of ~10 people to develop a white paper about training for science communication and engagement within ESA.)
- 2018 Participant. OCEANDOTCOMM professional science communicators training residency, Louisiana Universities Marine Consortium. Participation by application only (42 accepted out of 75 applicants).



- 2016 University of Wyoming, Alumni Association Graduate Student Award (\$1,000)
- 2016 Creative writing residency at AMK Ranch, University of Wyoming/National Park Service Research Center
- 2016 Promoting Intellectual Engagement in the First-Year teaching award; blind nomination by students; 170+ nominees, 26 awardees; University of Wyoming
- 2016 Selected for inclusion in *Poems Across the Big Sky (2)*, a 2016 anthology, ed. Lowell Jager, Many Voices Press; >1,200 submissions, ~250 poems selected.
- 2016 University of Wyoming Art Museum's Art-Science Symposium/Initiative planning committee; only student on committee comprised of faculty/staff from numerous UW departments (2015-2016)
- 2015 Best Environmental Reporting (3<sup>rd</sup> place) for article "An eel is an eel is an eel, or is it?" Québec Community Newspaper Association (QCNA)
- 2015 University of Wyoming Art Museum's Art-Science Symposium/Initiative planning committee; only student on committee comprised of faculty/staff from numerous UW departments (2015-2017)
- 2015 University of Wyoming MFA in Creative Writing Program (2015-2017); one of ten admitted out of >300 applicants
- 2014 Best Special Section, 1<sup>st</sup> place, Québec Community Newspapers Association (QCNA) award for 250th anniversary special edition magazine I edited/coordinated for the Québec Chronicle-Telegraph, North America's oldest newspaper
- 2014 Best Community Newspaper Promotion, 1<sup>st</sup> place, QCNA award for year-long 250th anniversary campaign I coordinated for the Québec Chronicle-Telegraph
- 2014 National journalism award, Newspapers Canada/Canadian Tire Jumpstart Foundation
- 2014 Feature photograph on back cover, Montana Outdoors annual photography issue
- 2013 Best Business Column or Feature, 1<sup>st</sup> place, QCNA
- 2013 Best Investigative or In-depth Reporting, 2<sup>nd</sup> place, QCNA
- 2013 Best Newspaper Promotion, 2<sup>nd</sup> place, QCNA
- 2013 Best Special Section, 3<sup>rd</sup> place, QCNA
- 2013 Commissioned photography project. Commissioned by Parks Canada, Prince Albert National Park.
- 2012 Best Newspaper Promotion, 2<sup>nd</sup> place, QCNA
- 2012 Best Sports Story, 2<sup>nd</sup> place, QCNA
- 2012 Outstanding Photojournalism award, QCNA
- 2012 Best Sports Photograph, 2<sup>nd</sup> place, QCNA
- 2012 Best News Photo, 3<sup>rd</sup> place, QCNA
- 2007 Heisey Foundation Scholarship (\$2,500)
- 2007 Montana Baker Grant (\$500)
- 2006 'Best of the Best' writing assessment award, University of Montana
- 2006 Elizabeth Jestrab-Chaffee Scholarship (\$1675)
- 2006 Montana Baker Grant (\$1,000)
- 2006 Montana Motor Carriers Association Leonard Eckel Memorial Educational Trust Scholarship (\$720)
- 2006 University of Montana anonymous donor scholarship (\$375)
- 2005 Montana Motor Carriers Association Leonard Eckel Memorial Educational Trust Scholarship (\$715)
- 2003 Member, NASA Space Consortium student project; Selected by Dean of Engineering to be a member of a student design team which constructed and carried out experiments whose purpose was to collect data about the feasibility of full-scale near-space experiments. Montana Tech of the University of Montana
- 2003 1st Place, Front Range Art Association's Choteau High School Art Award
- 2003 Anne Wiprud Memorial Scholarship (\$400)

- 2003 Choteau Kiwanis Scholarship (\$500)
- 2003 Elizabeth Jestrab-Chaffee Scholarship (\$1,675)
- 2003 Montana Baker Grant (1,000)
- 2003 Montana Motor Carriers Association Leonard Eckel Memorial Educational Trust Scholarship (\$1,050)
- 2003 Montana Tech of the University of Montana scholarships (\$3948)
- 2003 3 Rivers Communication Scholarship (\$500)

## TEACHING & MENTORING

### Courses Taught

- Spring 2019 **Lead Instructor, lead course designer**, ZOO/BOT 4100 and ZOO/BOT 4101:  
37 students  
3 credits  
Communicating Science, Zoology & Physiology Department, Botany Department, and Biology Program. I led curriculum design and was the lead instructor for this COM 3 course. I coordinated 2 additional faculty who co-designed and assisted in teaching one section of the course while I while I solo taught the first section. I also coordinated 13 faculty who served as writing mentors for the companion ZOO/BOT 4101 course, which is a required companion course for 4100. [Click here for syllabus.](#)
- Co-Instructor, co-designer**, The Art and Science of Notebooks and Metadata. ZOO 5890-12; REWM 5620-02; GEOL 5200-02; BOT 5000-02; ECOL 5350: This course was co-developed with a PhD student who wanted to offer an introduction to best practices in metadata and recordkeeping for lab- and field-based science. I facilitated listing of the course and mentored the student co-instructor in course design, facilitation, and implementation. I co-taught the course, with a solo-taught session on field drawing and two guest speaker sessions focusing on inclusive pedagogy and lab and field safety protocols (including anti-harassment policies and related reporting procedures, etc.). I facilitated and edited the final assignment – a reflection on data and notebook practices – which each student wrote as a contribution to [www.engagelaramiescience.weebly.com](http://www.engagelaramiescience.weebly.com), a blog and website which I facilitate to feature University of Wyoming students’ science communication work. Open to graduate students in all disciplines, the course was officially cross-listed by 5 major graduate programs. [Click here for syllabus.](#)
- Autumn 2018 **Lead Instructor, course designer**, ZOO 5890-4: Visualizing Science, Zoology & Physiology Department, University of Wyoming. Course enrollment was 22 students, compared to a department average of 5-10 students for graduate courses. [Click here to view syllabus.](#)
- Autumn 2017 **Lead Instructor, lead course designer**, ZOO 5890-4: The Art of Science Communication, Zoology & Physiology Department, University of Wyoming. Contributing co-instructor: Dr. Brian Barber, Biodiversity Institute. [Click here](#) to view University of Wyoming press release about our students’ collaboration with the Laramie Mural Project and the Laramie Public Art Coalition. [Click here for syllabus.](#)
- Spring 2017 **Lead Instructor, lead course designer**, ERS 2500: Writing Across Topics in Energy; School of Energy Resources, University of Wyoming. Co-taught with Kevin Kelley. [Click here](#) to view University of Wyoming press release about our students’ collaboration with the University of Wyoming Art Museum. [Click here for syllabus.](#)

- Autumn 2016 **Lead developer**, new curriculum for ERS 2500: Writing Across Topics in Energy; School of Energy Resources, University of Wyoming. Co-developed with Kevin Kelley.
- Spring 2016 **Lead Instructor, lead course designer**, ERS 2500: Writing Across Topics in Energy; School of Energy Resources, University of Wyoming. Co-taught with Ryan Oberhelman. 17 students  
3 credits [Click here for syllabus.](#)
- Summer 2018 **Invited. Co-editor, co-developer**, new ENGL 1010 curriculum and course textbook, University of Wyoming. Co-edited and developed with Kelly Kinney and Samantha Valez. This course is a required course for *all* freshmen at the University of Wyoming, regardless of declared major.
- Autumn 2015 **Instructor of Record**, ENGL 1010-30: Composition and Rhetoric; English Department, University of Wyoming. Winner of PIE teaching award in 1<sup>st</sup> semester of university level teaching. The Promoting Intellectual Engagement in the First-Year teaching award is conferred through blind nomination by students and then peer review. I was one of 170+ nominees and one of 26 awardees. [Click here for syllabus.](#)

## Mentoring

- 2019-present **Committee member**, Eric Quallen, master's thesis, population trends, home ranges, and survival modeling of least chipmunks in southeast Wyoming; emphasis in citizen science and how to use art to train community volunteers in data collection techniques, Department of Zoology & Physiology, University of Wyoming
- 2018-present **Public engagement supervisor/mentor**, Mallory Lambert, recipient of 2019 NSF Graduate Research Fellowship Program funding. Coached student in writing her application and developing relevant broader impacts. Over the past academic year, I have advised and mentored Lambert in a literature review and best practices in designing a semester-long, monthly school visit program about wildlife migration and Lambert's master's research. Additionally, Lambert's program connects rural Wyoming students with urban Boston students through a pen pal program which encourages exchange of scientific ideas through writing and drawing. The program, a pilot of a more permanent program which may be implemented in Lambert's research group, currently involves 3+ graduate student scientists, 5 elementary school teachers, around 50 elementary students, and two school districts.
- 2018-present **Supervisor**, Kayla Matlock, science communication and policy internship, undergraduate student in Ecosystem Science and Management and Haub School of Environment and Natural Resources, University of Wyoming
- 2016-2019 **Committee member**, Tyler Loyd, master's thesis, evaluating how field journaling in elementary school can build students' connections with their community, Science and Math Teaching Center, University of Wyoming
- 2018 **Supervisor**, Emily Reed, science communication internship, undergraduate student in the Professional Writing Minor and Haub School of Environment and Natural Resources, University of Wyoming
- 2015-2017 **Career development and entrepreneurial mentorship, thesis mentoring, and grant writing mentoring**, for several students in the Masters' of Fine Arts Creative Writing

Program, the Master's in English Program, the Department of Zoology & Physiology, and the Haub School of Environment and Natural Resources, University of Wyoming

- 2009-2010 **Supervisor**, Anna Semple, master's degree projects, through Missoula Urban Demonstration Project Youth Education Program (YEP!) program development, advertising, volunteer recruitment and training, and program delivery, Global Youth Development Program, University of Montana
- 2009 **Supervisor**, Allison Pak, undergraduate internship, "2009 Carbon Footprint Assessment of Missoula Urban Demonstration Project, Climate Change Studies Program, University of Montana
- 2005-2006 **Supervisor**, Sage Stowell, undergraduate project, development of an introductory packet for required field journaling component of place-based, multidisciplinary minor degree program, Wilderness and Civilization Program, Wilderness Institute, University of Montana

### Notable Informal Teaching

- 2019 Invited. Lead instructor, lead facilitator, and lead developer, Leveraging Arts Practices and Arts Thinking to Inform and Enhance Inclusive Pedagogies in STEM Education. Learning Actively Mentoring Program, Science Initiative, University of Wyoming.
- 2016-2017 Invited. Mentor/co-facilitator, Summer Institute and Learning Actively Mentoring Program, Science Initiative, University of Wyoming.
- 2016-2017 Invited. Co-instructor, co-facilitator, and co-developer, Summer Teaching Institute, Art Museum, University of Wyoming.
- 2015-present Invited. Art-science integration workshop facilitator, nature drawing workshop facilitator, Biodiversity Institute, University of Wyoming.
- 2015 Invited. Instructor, multi-day nature sketching/field journal workshop. Glacier Institute; Glacier National Park, Montana.
- 2015 Invited. Instructor, "Sketching for Scientists" professional development workshop for faculty and "Drawn to Nature" student research experience workshop. Harvard University Forest, Harvard University, Petersham, Massachusetts.
- 2008-2009 Invited. Conservation Educator, Boone and Crockett Club Conservation Education Program, Boone and Crockett Club, Dupuyer, Montana.
- 2008 Instructor/assistant coordinator, Conservation Across Boundaries (2-week teacher training course focused on using field research techniques in science classrooms), Boone and Crockett Club Conservation Education Program, Boone and Crockett Club, Montana.
- 2005-2010 Invited. Field journal and field drawing instructor, Wilderness and Civilization Program, Wilderness Institute, University of Montana.
- 2005-2007 Curriculum development and outdoor education, place-based/field journal curriculum, Watershed Education Network, Missoula, Montana.

## INVITED TALKS, WORKSHOPS, PRESENTATIONS, AND SEMINARS

### Professional Presentations & Posters

1. **Merkle, B.G.** 2019. Drawn to Science: Drawn to Science: Using Best Practices in Drawing Instruction to Integrate STEAM in K-12 and University Classrooms and Community Engagement Efforts). National Alliance of Broader Impacts annual summit. Tucson, AZ.
2. **Merkle, B.G.**, P. Lunzer., B. Barber, M. Bourque. 2017. Establishing a Baseline: Documenting How Ecological Concepts are Represented in Children's Books. Annual meeting of the Ecological Society of America. Fort Lauderdale, FL.
3. **Merkle, B.G.** 2017. Drawn to Science: Using the Arts to Investigate Social, Conservation and Ecological Relationships. Poster for Center for Global Studies research colloquium, University of Wyoming, Laramie, WY.

### Plenaries, Symposia, and Invited Lectures

2019

1. Invited. Integrating drawing as a teaching and assessment tool. Training for faculty and graduate students leading AECR 1000: Agroecology, College of Agriculture, University of Wyoming.
2. Invited. February 2019. Rhetoric, the science of science communication, and talking effectively about climate change. Lecture and workshop for GEOG 3480: Environmental Change, Geography Department, University of Wyoming.
3. Invited. April 2019. Ethics in Citations: Reflecting on Current and Best Practices. Interactive Workshop. Western Ecosystems Technology, Inc., Cheyenne, Wyoming.
4. Invited. April 2019. The Magic of Migration. King Kekaulike School, Maui, Hawa'i. Skype-based interview/discussion with 60 4<sup>th</sup> graders and their teachers about migration and careers in science.
5. May 2019. Drawn to Science: Using Best Practices in Drawing Instruction to Integrate STEAM into K-12 and University Classrooms and Community Engagement Efforts. Poster accepted for National Alliance of Broader Impacts annual summit. Tucson, Arizona.
6. May 2019. Interactive Workshop: Strategic Curriculum Design to Empower Graduate Students & Leverage University of Wyoming's Models to Training Next-Generation Broader Impacts Practitioners. Workshop accepted for National Alliance of Broader Impacts annual summit. Tucson, Arizona.
7. Invited. May 2019. Careers in Science Communication. Penn State Brandywine's STEM Options program! (a girls in STEM support program), Pennsylvania State University – Brandywine (via Skype).
8. Invited. May 2019. Drawn to Science: Leveraging Artful Thinking to Enhance Science Teaching. Learning Actively Mentoring Program, Science Initiative, University of Wyoming. Co-taught with Rachel Watson, Science Initiative and Raechel Cook, University of Wyoming Art Museum.
9. Invited. July 2019. Drawn to Migrations: Leveraging Artful Thinking to Enhance Science Teaching about Big Game Migrations. Roadmap to STEAM annual conference, Wyoming Department of Education. Laramie, Wyoming. Co-taught with Mallory Lambert, Migration Initiative, University of Wyoming.

2018

3. **Invited speaker**, Living Naturalists and Their Careers in Natural History. Natural History First Year Seminar. University of Wyoming, Laramie, WY.
4. **Lead organizer, speaker/panelist**, Inspire/Ignite session: INS 9: Talking about the Hard Stuff: Using the Science of SciComm to Effectively Engage and Communicate about Ecology. Ecological Society of America Annual Meeting; New Orleans, LA. Co-organizers: J. Purrenhage, University of New Hampshire; A. Hettinger, UC Davis, Bodega Marine Laboratory.
5. **Speaker**, INS 9-5: Navigating the could-be politicized landscape of migration corridor research and conservation. Ecological Society of America Annual Meeting. Speaker/panelist. New Orleans, LA.
6. **Co-author**, The ESA Communication and Engagement Section: Working to recognize, empower, and professionalize diverse efforts to strengthen the role of science in society, in INS 5 Expanding

Ecology: Your ESA Sections and Chapters Focused on Diversity, Equity, and Inclusion. Ecological Society of America Annual Meeting. Hettinger, A., **B.G. Merkle**, and J. Purrenhage. New Orleans, LA.

7. **Co-author**, Hettinger, A., **B.G. Merkle**, and J. Purrenhage. The ESA Communication and Engagement Section: Working to recognize, empower, and professionalize diverse efforts to strengthen the role of science in society, in INS 5 Expanding Ecology: Your ESA Sections and Chapters Focused on Diversity, Equity, and Inclusion. Ecological Society of America Annual Meeting, New Orleans, LA.
8. **Invited symposium speaker**, “A Wyoming Case Study: How Using Facebook for Transparent SciComm Helped Researchers Avoid Politicizing Migration Research and Conservation.” Society of Wetland Scientists Annual Meeting; Denver, CO.
9. **Invited speaker**, WiMSE Women in STEM panel. Women in Math, Science, and Engineering (WiMSE) Career Panel; Laramie campus of Laramie Community College; Laramie, WY.
10. **Invited speaker**, “Sharing Migration Science”. Annual Cooperators Meeting, Wyoming Cooperative Fish and Wildlife Research Unit; University of Wyoming; Laramie, WY.
11. **Invited writer**, public reading. University of Wyoming Creative Writing MFA Program. Laramie, WY.

2017

12. **Invited Ignite speaker/panelist**, “Drawn to Science: Exploring Historical and Contemporary Synergies Between Drawing, Creativity, and Science” in INS 7: Ecological Art-Science Collaborations. Ecological Society of America Annual Meeting, Portland, OR.
13. **Invited plenary**, “Drawn to Science: How Changes in Communication and Associated Technology Through Time Have Shaped How We Engage with the Public and Each Other.” American Fisheries Society (western division) Annual Meeting; Missoula, MT.
14. **Invited symposium speaker/panelist**, “Drawn to Illustrations: Tips and Techniques for Enhancing Your Approach to Visuals.” American Fisheries Society (western division) Annual Meeting; Missoula, MT.
15. **Invited webinar**, “Drawn to Illustration: Tips for Working with an Illustrator.” Textbook and Academic Authors Association; online.
16. **Invited speaker**, “The Ecologically True Story of the Tortoise and the Hare.” Ignite talk for “Insight: Legends.” Wyoming Humanities Council; Cheyenne, WY.

2016

17. **Symposium co-organizer**, “Re-envisioning the Laboratory: University of Wyoming Sci-Art Symposium.” University of Wyoming; Laramie, WY.
18. **Invited seminar**, “Drawn to Entrepreneurship.” University of Wyoming, Master’s of English Literature program; Laramie, WY.
19. **Invited seminar**, “Drawn to Science: Exploring Historical and Contemporary Synergies between Drawing, Creativity and Science.” University of Wyoming Zoology and Physiology Department; Laramie, WY. ([view video](#))

2015

20. **Co-presenter**, “GNSI Drawing Toolkit Project.” Lockett, E.C., M.B. Hinrichs, and **B.G. Merkle**. Guild of Natural Science Illustrators Annual Conference; Arcadia University, Glenside, PN.

## Institutes & Workshops: Science Communication & Art-Science Integration

2019

21. **Invited. Lead instructor, lead facilitator, and lead developer**, Leveraging Arts Practices and Arts Thinking to Inform and Enhance Inclusive Pedagogies in STEM Education, Learning Actively Mentoring Program, Science Initiative, University of Wyoming
22. **Lead organizer, lead facilitator**, Interactive Workshop: Strategic Curriculum Design to Empower Graduate Students & Leveraging University of Wyoming's Models to Training Next-Generation Broader Impacts Practitioners. National Alliance for Broader Impacts annual summit. Tucson, AZ.
23. **Organizer, moderator**, Panel: Sharing Science: A Panel on the Social and Ethical Implications of the Science-Policy Interface. Shepard Symposium on Social Justice, University of Wyoming, Laramie, WY.

2018

24. **Organizer, moderator**, Panel: Q&A with AAAS Mass Media Fellows re applying for and doing a AAAS Mass Media Fellowship. University of Wyoming Science Communication Initiative, University of Wyoming, Laramie, WY.
25. **Invited advisor**, Resume Roundtable. Women in Math, Science and Engineering and McNair Scholars Program, University of Wyoming, Laramie, WY.
26. **Co-organizer, co-facilitator**, Photo 101: Tips for Photographing Lab-based Research. Co-facilitator: David Keto, University of Wyoming Extension. University of Wyoming Science Communication Initiative, University of Wyoming, Laramie, WY.
27. **Lead organizer, moderator**, Sharing Your Science: A Panel on the Professional Implications of Engaging with Policymakers. University of Wyoming Science Communication Initiative, University of Wyoming, Laramie, WY.
28. **Facilitator, lead consultant**, Science Communication Support Drop-In. Twice per week, Fall 2018. University of Wyoming Science Communication Initiative, University of Wyoming, Laramie, WY.
29. **Invited instructor**. Drawn to Natural History workshop. Natural History First Year Seminar. University of Wyoming, Laramie, WY.
30. **Lead organizer, lead facilitator**, workshop about “Demystifying the Media: Communicating Your Science with the Press.” Ecological Society of America Annual Meeting; New Orleans, LA. Contributing facilitator, co-organizer: A. McRae-Crerar, University of Pennsylvania. Co-organizers: C. Looby, Kean University; J. Varner, University of Utah; L. Calle, Florida Atlantic University; K. Burke, American Scientist Magazine (Sigma Xi)
31. **Lead organizer, lead facilitator**, workshop about “Demystifying the Media: Communicating Your Science with the Press.” University of Wyoming Science Communication Initiative; University of Wyoming; Laramie, Wyoming. Contributing facilitator: R. Edie, University of Wyoming.
32. **Invited; lead facilitator**. “Drawn to Science through Storytelling” workshop and talk. Harmony School and Centennial School. Harmony School, Laramie, WY.
33. **Co-organizer**. WK 29: The 1-pager: A Practical Tool for Translating Research Into Action. Ecological Society of America annual meeting, New Orleans, LA. Co-organizers: A. Hettinger (lead), UC Davis, Bodega Marine Laboratory; S. M. Anderson, Presidential Management Fellow; J. Purrenhage, University of New Hampshire.
34. **Co-organizer**. WK 35: Building Scientist-Community Partnerships and Best Practices: Lessons from New Orleans Post-Hurricane Katrina and Other Extreme Events. Ecological Society of America annual meeting, New Orleans, LA. Co-organizers: A. M. Aramati Casper (lead), Washington State University; Kennedy F. Rubert-Nason, Madison Area Technical College; Melissa Varga, Union of Concerned Scientists; Theresa Harris, American Association for the Advancement of Science; Brian R Shmaefsky, Lone Star College; Leanne M. Jablonski, Marianist Environmental Education Center; Annaliese Hettinger, UC Davis, Bodega Marine Laboratory; Sam Davis, Dogwood Alliance; George A. Middendorf, Howard University.

2017

35. **Invited instructor, co-facilitator**, Summer Teaching Institute, professional development training & program for k12 educators, University of Wyoming Art Museum; Laramie, WY. 2017. Co-facilitators: K. Christensen (lead), H. Bender, A. Vetter, D. Tuthill, K. Wagner, B. Barber, University of Wyoming.

2016

36. **Invited workshop**, “Drawn to Wildlife-Sketching for Scientists.” Wyoming chapter of The Wildlife Society Annual Meeting; Cody, WY.
37. **Co-organizer, workshop mentor**, “Science Communication Mentoring and Project Review” workshop. Ecological Society of America Annual Meeting; Fort Lauderdale, Florida. Co-organizers: C. Hart (lead), Harvard University; H. L. Menninger, North Carolina State University; M. G. Mehling, Chatham University
38. **Co-development**, “Drawn to Science” professional development training & program for k12 educators. Summer Teaching Institute, University of Wyoming Art Museum; Laramie, WY. Co-developers: K. Christensen (lead), H. Bender, D. Tuthill, University of Wyoming.
39. **Invited workshop**, “Drawn to Science: Using analog technology (art!) to teach and learn science.” University of Wyoming Ellbogen Center for Teaching and Learning; Laramie, WY.

2015

40. **Instructor**, “Drawn to Natural History” workshop. Ecological Society of America Annual Meeting; Baltimore, MD.
41. **Co-organizer, co-instructor**, “Communicating Science Vividly” workshop. Ecological Society of America Annual Meeting; Baltimore, MD. Co-organizers: M. G. Mehling (lead), Chatham University; C. Hart, Harvard University.
42. **Invited workshop**, “Drawn to Science” k12+ teacher training. Wyoming Department of Education, Roadmap to STEM Annual Conference; Sheridan, WY.
43. **Invited workshop**, “Drawn to Life” visual note-taking workshop for elementary school science students. Private workshop organized by parents, Alberta, Canada.
44. **Invited workshop**, “Sketching for Scientists” professional development workshop. Harvard University Forest; Petersham, MA.
45. **Invited workshop**, “Drawn to Nature” student workshop. Harvard University Forest, Petersham, MA.

2014

46. **Co-organizer, co-instructor**, “Beyond the Written Word: Advancing Ecology Communication Through Multimedia” workshop. Ecological Society of America Annual Meeting; Sacramento, CA. Co-organizers, co-facilitators: Chris Creese (lead), UCLA; C. Hart, Harvard University; H. L. Menninger, North Carolina State University.
47. **Invited workshop**, “Drawn to Science & Sustainability.” Chatham University; Pittsburgh; PN.

#### [Natural History, Field Journaling, Photography, etc.](#)

48. **Invited workshop**, “Drawn to the Outdoors: Observational Drawing Basics” and “Drawn to the Outdoors: Keeping a Field Journal and Drawing Outdoors.” 2017. Wyoming Outdoor Council’s 50<sup>th</sup> anniversary celebration. 2017.
49. **Invited workshop**, “Drawn to Biodiversity.” University of Wyoming Biodiversity Institute. 2016.
50. **Invited workshop**, “Visual journaling.” University of Wyoming Haub School of Environment and Natural Resources, Art & Environment class; Laramie, Wyoming. 2016.
51. **Invited workshop**, “Drawn to Water with Wyoming Girl Scouts.” University of Wyoming Biodiversity Institute; Laramie, Wyoming. 2015.



52. **Invited workshop**, “Drawn to Biodiversity.” University of Wyoming Biodiversity Institute; Laramie, Wyoming. 2015.
53. **Invited workshop**, “Drawn to Natural History.” Glacier Institute; Glacier National Park, Montana. 2015.
54. **Invited workshop**, “Drawn to Natural History.” Morrin Centre; Quebec City, Quebec, Canada, 2014.
55. **Invited workshop**, “Drawn to Books” workshop for children’s book camp. Morrin Centre; Quebec City, Quebec, Canada. 2014.
56. **Developed workshop**, “Croquez les Mythes” Greek mythology sketching workshop. Musée de la civilization; Québec City, Canada. 2014.
57. **Invited workshop**, “Photos that Click” photography professional development. US Consulate; Québec City, Canada. 2014.

## MEDIA COVERAGE

1. Homer-Wambeam, London. UW Researcher Promotes Use of Poetry in Science. Wyoming Public Radio. 28 November 2018. ([link](#))
2. Science Media Center of Canada. Heads Up Weekly Newsletter featured our research on poetry and science. 9 October 2018. Link not available, because research shared in this newsletter is embargoed and list is exclusive to vetted journalists.
3. Hu, Jane C. The next time you want to explain something complicated, write a haiku instead. *Quartz*. 9 October 2018. ([link](#))
4. American Institute of Biological Sciences. 8 October 2018. Our research about poetry and science was the headliner/subject line for the AIBS weekly newsletter.
5. UW in the News. Featured my research on poetry and science. 8 October 2018. ([link](#))
6. Anderson, Lorena. The Poetry of Science Sparks International Collaboration. University of California-Merced. Merced, CA, 4 October 2018. ([link](#))
7. Ontiveroz, Milton. UW Researcher, Colleagues Use Poetry to Promote Science. University of Wyoming News. Laramie, WY, 4 October 2018. ([link](#))
8. Mandryk, Courtney and **B.G. Merkle**. Artist Feature: Bethann Garramon Merkle. *Root & Star* magazine. 30 August 2018. ([link](#))
9. Sneath, S. Scientists made art of what they study. Hilarity ensued. *The Times-Picayune*. New Orleans, LA, 6 August 2018. Quoted me.
10. Sneath, S. Scientists’ child-like drawings of the creatures they study are going viral. Here’s why. [www.nola.com](http://www.nola.com). New Orleans, LA. 3 August 2018. Quoted me. ([link](#))
11. Newman, E. Downtown mural reaches completion. *Laramie Boomerang*. Laramie, WY, 17 August 2018. Article about collaborative mural project to which I contributed. ([link](#))
12. UW student scientists connect individual research with local murals. *Gillette News Record*. Gillette, WY, 27 January 2018. Article about student project I facilitated in a graduate-level course I designed and taught. ([link](#))
13. Chaney, R. Science offers solutions as well as problems, fisheries experts maintain. *Missoulian*. Missoula, MT, 23 May 2017. Article includes photo of me preparing for plenary talk at American Fisheries Society (western division) annual meeting ([link](#)).
14. Nadeau, S. Bethann Merkle crosses continents in search of tortoise and hare. *Quebec Chronicle-Telegraph*. Quebec City, Quebec, Canada, 4 May 2016. ([link](#))
15. White, J. A. “Drawn to Biodiversity” workshop combines observation with curiosity. *Wyoming EPSCoR*. Laramie, WY, 8 March 2016.
16. Senzt, Sarah. Interview: Bethann G. Merkle of CommNatural. *Misadventures* magazine. 7 October 2015. ([link](#))
17. Christy, M. Snow in Tucson. *Arizona Daily Star*. Tucson, AZ, 1 January 2015. Featured photo of me doing field sketches for book illustration commission ([link](#)).

18. Nadeau, S. Drawn to Natural history and science through art. *Quebec Chronicle-Telegraph*. Quebec City, Quebec, Canada, 17 September 2014 ([link](#)).
19. Martinsen, M. Drawing class offered. *Choteau Acantha*. 23 April 2014, Choteau, MT. Article featuring drawing class I offered ([link](#)).
20. 18<sup>th</sup>-century scientist sewed tiny pants for frogs. Boingboing.net. 26 March 2014. Viral sharing of article I illustrated ([link](#)).
21. Davis, L. Why 18<sup>th</sup> century biologists made copulating frogs wear tiny pants. Io9.gizmodo.com. 26 March 2014. Viral sharing of article I illustrated ([link](#)).
22. Out & About: The week in arts and entertainment. *Missoulian*. 14 May 2010, Missoula, MT. Article mentions drawing workshop I taught for the Watershed Education Network ([link](#)).
23. Gerber, M. Outdoors briefs for Thursday, May 13: Learn to protect Clark Fork waters. *Missoulian*. 13 May 2010, Missoula, MT. Article mentions drawing workshop I taught for the Watershed Education Network ([link](#)).
24. Cohen, B. Missoulians flock to sun, sustainability at Caras Park. *Missoulian*. 18 April 2010. Article quotes me as project director of organization which coordinates annual Earth Day celebration ([link](#)).
25. Martinsen, M. Community group working on garden. *Choteau Acantha*. 8 April 2009. Article quotes me re community development gardening project I co-facilitated ([link](#)).
26. Martinsen, M. Hospital benefit auction Sept. 26. *Choteau Acantha*. 23 September 2009. Article about juried auction which included my photography ([link](#)).
27. Tuesday at the fair. *Missoulian*. 10 August 2009. Article mentions “Dirt on Composting” workshop I co-facilitated ([link](#)).
28. Martinsen, M. 2008. Community picks 4 action plans. *Choteau Acantha*. 31 December 2008. Article quotes me, participant and co-facilitator in multi-year community development process ([link](#)).
29. Martinsen, M. Shadows of the Past auction to benefit new meds system. *Choteau Acantha*. 19 September 2007. Article about juried auction which included my photography ([link](#); auction follow-up article [here](#)).
30. Thornton, N. Don't miss Teton County courthouse gala Dec. 2. *Choteau Acantha*. 29 November 2006. Article about centennial celebration, juried artwork included my illustration ([link](#)).
31. Thornton, N. Rural permit regulations to be revised. *Choteau Acantha*. 21 June 2006. Article quotes me ([link](#)).

## IMAGES

### Illustration, photography, and design

My illustrations, screen prints, monotype prints, and award-winning photography are in private collections, have had gallery representation, and have been displayed in solo and group shows, a solo natural history exhibition, and juried auctions, in the USA and Canada.

My images and graphic design services have been commissioned by 30+ individuals and entities including the following:

1. *American Scientist* (Sigma Xi, the Scientific Research Society)
2. *BC Nature* (Federation of British Columbia Naturalists)
3. Biodiversity Institute, University of Wyoming
4. Boone and Crockett Club
5. *Camas – A Journal of the West*
6. Center for Forest Research/Centre d'étude de la forêt, Université Laval
7. Ecological Society of America's Communication and Engagement Section
8. Environmental Studies Program, University of Montana
9. *Fair Chase*, Boone & Crockett Club
10. Garden City Harvest

11. Glacier Institute
12. Guild of Natural Science Illustrators
13. Harvard University Forest
14. *Montana Outdoors*, Montana Fish, Wildlife & Parks
15. *Mother Earth News*
16. Oregon State University Press
17. Science Initiative Summer Teaching Institute and Learning Actively Mentoring Program, University of Wyoming
18. *The Globe and Mail*
19. The Nature Conservancy
20. *The Wildlife Professional*
21. The Wildlife Society's Student Development Working Group
22. University of New Mexico Press
23. Parks Canada
24. Sturgeon River Bison Stewards
25. Summer Teaching Institute, University of Wyoming Art Museum
26. University of Wyoming
27. University of Wyoming Raccoon Project
28. US Consulate in Québec City
29. Watershed Education Network
30. *Western Confluence*
31. Western Division of the American Fisheries Society
32. Wilderness Institute, University of Montana
33. Wyoming Chapter of The Wildlife Society
34. Wyoming Migration Initiative

My image products include conservation, scientific, and education illustrations and photography for books, multi-media, social media, and editorial projects such as:

- aquatic macro-invertebrate illustrations for a wetland field guide
- photography of prescribed burns and wildlife for Prince Albert National Park, Canada
- scientists in action photographed for a wide range of publications and scientists' own use
- conservation education for newspapers, blogs, and organization outreach
- wildlife and wildlife habitat illustrations for outreach about crossbill evolution
- book about bighorn sheep conservation
- book about ungulate migration in Wyoming
- logo for racoon cognition/citizen science research project

## GRANTS

I have contributed to \$960,735 of successful grants and fundraising.

### Grants on which I have been PI or co-PI (\$538,735)

2019 Knobloch Foundation. Challenge Grant to Fund the Wyoming Migration Initiative. \$500,000. Co-PIs: Dr. Matthew J. Kauffman, Dr. Jerod A. Merkle, Dr. Hall Sawyer, Holly Copeland, and Gregory Nickerson.

2019 Crowd-funding campaign. "A Wild Migrations Atlas for Every Middle and High School and Public Library in Wyoming." Initial funding goal: \$8,000. Funds raised: \$11,650.00. For details, see the project website: <https://migrationinitiative.org/content/sponsor-atlas>.

- 2019 Ecological Society of America, Long-Range Planning Grant. “Extending the Engagement Tent by Establishing Communication and Engagement Awards for the Ecological Society of America.” \$2,000.00. Co-PIs: Dr. Kirsten Schwarz, Dr. Annaliese Hettinger, and Dr. Jennifer Purrenhage.
- 2019 Ecological Society of America, Long-Range Planning Grant. “Training to Build and Institutionalize Scientist-Community Partnerships at Future ESA annual meetings.” Request: \$2,485.00. Co-PIs: Dr. Kirsten Schwarz, Dr. Annaliese Hettinger, and Dr. Jennifer Purrenhage.
- 2019 Haub School of Environment and Natural Resources, Creative Activities Grant. Stop Over Stop Motion: An Arts-Based Film Project to Share Pronghorn Migration with Young Adults in Wyoming. Request: \$600.00. I am the supervising faculty; grant submitted by undergraduate Kayla Matlock, who did a 2018-2019 academic year communications internship with me.
- 2017 Ecological Society of America, Long-Range Planning Grant. “Communication and Engagement Section capacity building, outreach, and recruitment.” \$2,000. Co-PIs: Dr. Kirsten Schwarz, Dr. Annaliese Hettinger, and Dr. Jennifer Purrenhage.
- 2016 University of Wyoming, American Heritage Center Student Research Award. “Ecological Concepts in Children’s Books: Portrayal of Ecology in Turn-of-the-Century Children’s Westerns.” (\$500)
- 2016 University of Wyoming, Biodiversity Institute Art Grant. “An Ecological Story Book: Writing and Illustrating the Ecologically True Story of the Tortoise and the Hare.” \$3,000.
- 2016 University of Wyoming, Center for Global Studies research travel grant. “An Ecological Story Book: Writing and Illustrating the Ecologically True Story of the Tortoise and the Hare.” \$2,500.
- 2016 University of Wyoming, Creative Writing Program travel grant. “An Ecological Story Book: Writing and Illustrating the Ecologically True Story of the Tortoise and the Hare.” \$700.
- 2016 University of Wyoming, Creative Writing Program research grant. “An Ecological Story Book: Writing and Illustrating the Ecologically True Story of the Tortoise and the Hare.” \$1,200.
- 2016 University of Wyoming, Haub School of Environment and Natural Resources creative activities grant. “An Ecological Story Book: Writing and Illustrating the Ecologically True Story of the Tortoise and the Hare.” \$1000.
- 2015 University of Wyoming, College of Arts and Sciences International Studies Grant \$1,500.
- 2015 University of Wyoming, Creative Writing Program research travel grant. “An Ecological Story Book: Writing and Illustrating the Ecologically True Story of the Tortoise and the Hare.” \$600.
- 2013 Greening Sacred Spaces – issued to the Anglican Diocese of Quebec’s Green Ministries Initiative for “Cathedral Green Audit.” \$1,500. Co-PIs: S. Blair and C. Patterson.
- 2013 TD Environment Foundation – issued to the Anglican Diocese of Quebec’s Green Ministries Initiative for “Putting the Gardens back into des Jardins: A Community Greening Project in the heart of Old Quebec.” \$5,000. Co-PIs: S. Blair and C. Patterson.
- 2012 Peter Gzowski Invitational (PGI Canada) – issued to Quebec City Reading Council for the “Lifelong Learning Program, advisory committee, and website support” which I coordinated and

developed from an occasional activity into a monthly senior continuing education program. \$1,500.  
Co-PI: C. Nolan.

2010 New Belgium Environmental Stewardship Grant – issued to Missoula Urban Demonstration Project, of which I was Program Director, for “Sustainable Agriculture and MUD’s Youth Education Project.” \$1,000. Co-PIs: L. Caldwell, A. Semple, and A. West.

### Grants to which I contributed (\$422,000)

*Issued to organizations to which I contributed significant grant writing support or no PI or co-PIs were indicated.*

2017 National Endowment for the Humanities, Creating Humanities Communities program – issued to High Plains American Indian Research Institute (\$300,000)

2011 City of Missoula, under the US Department of Housing and Urban Development (HUD) Community Development Block Grant program – issued to Missoula Urban Demonstration Project, of which I was Program Director, for “Land Purchase to Relocate and Expand Tool Library and Truck Share Programs.” (\$96,000)

2010 Missoula Community Foundation – issued to Missoula Urban Demonstration Project for “General Operations.” (\$13,600)

2010 High Stakes Foundation grant – issued to Missoula Urban Demonstration Project for “Organizational Development, Site Redesign Charette, and AmericCorps Position Support.” (\$5,900)

2010 City of Missoula, Office of Neighborhoods, Neighborhood Large Project Grants – issued to Missoula Urban Demonstration Project for “MSU-CDC Fee for Conceptual Design of Northside Neighborhood Center.” (\$3,000)

2009 Patagonia – issued to Missoula Urban Demonstration Project for “Coffee 2 Compost Program Capacity Building.” (\$2,500)

2009 Western Montana Community Foundation – issued to Missoula Urban Demonstration Project for “Advertising MUD Sustainability Workshop Series on Local Radio Stations.” (\$500)

2009 Simmons Media – issued to Missoula Urban Demonstration Project for “Advertising MUD Sustainability Workshop Series on Local Radio Stations.” (\$500)

## PROFESSIONAL ACTIVITIES & SERVICES

### Editorial Appointments

2019-present Invited. Associate Editor. *Natural Sciences Education*.

2019 Invited proposal reviewer, Symposia and Organized Oral Sessions proposals. Meetings Committee, 2019 Annual Meeting, Ecological Society of America.

2018-present Invited. Founding Editor. “Communicating Science” section in *The Bulletin of the Ecological Society of America*.

2018-present Contributing editor. *The Journal of the Guild of Natural Science Illustrators*.

2015-present Editor-in-Chief and webmaster. Website and digital publishing,

Communication and Engagement Section, Ecological Society of America.

2010-present Consulting editor. *Journal of Agriculture, Food Systems, and Community Development*.

### Invited reviews

1. *Journal of Agriculture, Food Systems, and Community Development*, 11 reviews, 2010-present.
2. *Connected Science Learning*, 2 reviews, 2018-present.
3. *Natural Sciences Education*, 1 review, 2019-present.
4. *Frontiers in Ecology and the Environment*, 1 review, 2019-present.
5. Invited proposal reviewer, Symposia and Organized Oral Sessions proposals. Meetings Committee, 2019 Annual Meeting, Ecological Society of America.

### Appointments & Leadership Roles

- 2018-2019 **Past Chairperson**, Communication and Engagement Section of the Ecological Society of America
- 2018-present **Director**, Wyoming Science Communication Initiative, University of Wyoming  
**Member**, Committee for Inclusive Future Meetings, Ecological Society of America, convened by 2019 Meetings Chair, Ryan McEwan  
**Invited Lead**, Science Communication and Science Writing Curriculum Committee, Wildlife and Fisheries Biology and Management program and Department of Zoology and Physiology, University of Wyoming  
**Invited Member**, Advisory Committee, Women in Math, Science, and Engineering, University of Wyoming
- 2017-2018 **Chairperson**, Communication and Engagement Section of the Ecological Society of America
- 2017-present **Member**, Committee on Diversity and Education, Ecological Society of America  
**Invited Lead**, Training Section, “Strategy Development: Increasing the Impact of Public Engagement Within and Beyond ESA,” Ecological Society of America (4-person committee funded by ESA; I am leading a team of ~10 people to develop a white paper about training for science communication and engagement within ESA.)
- 2017 **Co-founder; workshop and seminar committee chair; director**, UWyo Science Communication Initiative (WySCI), University of Wyoming
- 2016 **Chairperson-elect**, Communication and Engagement Section, Ecological Society of America
- 2015 **Secretary**, Communication and Engagement Section, Ecological Society of America
- 2015-2017 **Planning committee member**, Art-Science Symposium, Art Museum, University of Wyoming; only student selected for committee comprised of faculty/staff from numerous UW departments
- 2014-present **Co-founder, Section editor-in-chief, and Section webmaster**, Communication and Engagement Section, Ecological Society of America
- 2006-2007 **Co-founder, coordinator**, Students of Wilderness and Civilization, an officially recognized student organization and alumni network, University of Montana, Missoula, Montana
- 2003-2004 **Student representative**, “Great Grub Committee,” the weekly university food systems advisory committee, Montana Tech of the University of Montana
- 2003-2004 **Vice-president**, Residence Hall Association

## Facilitation & Community Development

- 2012-2015 **Consultant**, Green Ministries of the Anglican Diocese of Québec, Québec City, QC. Strategic planning and communications, web development, grant writing, and community garden design.
- 2011-2012 **Committee member**, Produce Safety Alliance (Cornell University) for committees on Train the Trainers and Education Outreach Program Delivery.
- 2010 **Steering committee member**, homeWORD Sustainability Tour, Missoula, MT.
- 2009-2010 **Steering committee member**, Burns Street Square Community Kitchen/Café, Missoula, MT. Also a Business Plan and Visioning **sub-committee member**.
- 2008-2009 **Co-founder, facilitator, and webmaster**, GROW Choteau, Choteau, MT. Co-founded community initiative offering gardener mentoring program, community classes and feasibility assessment for establishing a community garden; facilitated organizational planning phases including mission and vision statement development and program idea prioritization; developed logo, color scheme, website and program materials; co-facilitated first season of mentoring and classes.
- 2008-2009 **Co-instructor**, Leadership Plenty/Horizons, Choteau, MT. Nine-week leadership skills course for community members; participated in 18-month community development project sponsored by Northwest Area Foundation.
- 2007 **Garden Manager**, Missoula Urban Demonstration Project, Missoula, MT. Student intern for urban organic gardening demonstration site and education program.
- 2006-2007 **Survey and community facilitation intern**, National Parks Conservation Association, Choteau and Missoula, MT, co-developed Rocky Mountain Front (RMF) distribution network for the film *There's a Freedom Here: Choices and Change on the Rocky Mountain Front*; collaborated with Wilderness Institute to develop, administer and analyze follow-up survey; co-coordinated public meeting and showing of the film
- 2005 **Co-founder, coordinator**, Missoula Non-profits Together for Sustainability, Missoula, MT. As a student inter, co-founded communication network for sustainability-oriented community non-profits.
- 2004-2007 **Volunteer coordinator**, Great Bear Foundation, Missoula, MT. Coordinated volunteers for city-wide fruit gleaning project aimed at reducing human-black bear conflicts.

## MEMBERSHIPS

Ecological Society of America (since 2013), Guild of Natural Science Illustrators (since 2013), National Association of Science Writers (since 2015; membership is by application only), Associate Member of Sigma Xi – Research Scholarship Honors Society (since 2019), Urban Sketchers International (since 2012)

## CERTIFICATIONS & LEADERSHIP TRAINING

**Certified LeadershipPlenty® Trainer**, certified by LeadershipPlenty®; U.S.A.-based nation-wide program trains emerging community leaders, applying adult education principles to communication- and collaboration-related leadership skills development.

**Certified Master Gardener**, certified by Montana Extension Services (Montana State University); specialization in organic, cold-climate and water-wise gardening practices

**Certified Interpretive Guide**, certified by National Association for Interpretation, a multi-disciplinary professional organization of educational interpreters.

## CONTRIBUTED BLOGGING & SOCIAL MEDIA

1. **Invited curator**, @IAmSciArt account, Twitter. Curator of popular (11,500 followers), rotating curator account, first week of 2017.
2. **Invited curator**, @DowntownLaramie, Instagram. Curator of popular (5,033 followers), rotating curator account hosted by the Laramie Mainstreet Alliance. First week of October 2017.
3. **Editor-in-chief and contributor**, Communication and Engagement Section, Ecological Society of America
4. **Editor and contributor**, commnatural.com
5. **Contributor**, Crastina (Contemporary Science Communication platform, Sweden)
6. **Editor and contributor**, ecologicallytruestory.org, Ecotone (ESA blog), Early Career Ecologists, fruitrootleaf.com, foodiequebec.com, and The Volta Blog.
7. **Social media account management** and/or contributions for: Communication & Engagement Section (ESA), commnatural.com, Missoula Urban Demonstration Project, Morrin Centre, Quebec Chronicle-Telegraph, and Wyoming Migration Initiative.

## INFORMATION TECHNOLOGY & SOFTWARE SKILLS

Adobe (Acrobat Pro, Photoshop); Google (Blogger, Calendar, Docs/Drive, Google+, Groups, Picasa, Reader, Sites); Microsoft Office (Excel, Outlook, Photo Editor, Power Point, Publisher, Word); Social Media (Facebook, Flickr, MailChimp, Ning, Pinterest, Tumblr, Twitter); Other (Box, Dabble, Dropbox, Email 1 & 1, GoDaddy, Hover, Skype, SurveyMonkey, Weebly, WordPress)

## LANGUAGES

English native language; excellent spoken and written capacity  
French intermediate spoken and written capacity (functional fluency)  
HTML basic/intermediate capacity

## FIELD EXPERIENCE

2015-2016 **Research volunteer**, Rocky Mountain Amphibian Survey, Wyoming  
2013 **Research assistant**, free-range bison study, Saskatchewan, Canada  
2008-2010 **Capture assistant**, urban black bear study, Montana  
2012 **Research volunteer**, kestrel nest box study, Quebec, Canada  
2009 **Research volunteer**, for study of road impacts on painted turtles, Montana  
2008-2009 **Research volunteer**, for Rocky Mountain Front phenology study, Montana  
2004 **Research assistant**, survey for Trout Unlimited Montana Streamflow Fund, Montana

## EMPLOYMENT HISTORY

[Associate Research Scientist](#) | [Associate Academic Professional Research Scientist](#)

Wyoming Migration Initiative, Department of Zoology and Physiology, University of Wyoming, Laramie, Wyoming, 2017-present.

Experience & Applied Skills: illustration; press release, article, and social media writing; photography; teaching scientists and grad students (workshops and semester-long courses); lesson planning; curriculum development; classroom management; discussion facilitation; student motivation and coaching; editing (in the context of helping students learn to self-edit and editing colleagues' manuscripts and outreach drafts); digital, print, and social media communication for public education and outreach, including social media; collaboration and self-direction; interpersonal and supervisory skills; grading and providing informal feedback and assessments; grant writing to fund creative and outreach/public engagement activities; co-leading establishment of a University of Wyoming Science Communication Initiative focused on enhancing SciComm



skills within the University of Wyoming community; launching WMI's first educational curriculum initiative with partners including the Teton Science School, the Wyoming Geographic Alliance, the Science and Math Teaching Center, and the University of Wyoming Art Museum. Grant writing to fund creative and outreach/public engagement activities.

### Writing Instructor (Instructor of Record)

Graduate Teaching Assistantships while a Master of Fine Arts candidate in the Creative Writing Program (nonfiction concentration), University of Wyoming, Laramie, Wyoming, 2015-2017.

Experience & Applied Skills: teaching undergraduate students in composition and science writing courses; lesson planning; curriculum development/course curriculum redesign; classroom management; discussion facilitation; student motivation and research skills coaching; editing (in the context of helping students learn to self-edit); multi-tasking; accounting for various learning styles, interests and backgrounds simultaneously; digital and print communication; collaboration and self-direction; interpersonal and supervisory skills; grading and providing informal feedback and assessments; facilitating student development of critical thinking skills; enhancing student awareness and appreciation of close reading, critical thinking and articulate writing when engaging with texts in a range of genres; study of, engagement with, and implementation of the field of writing studies, pedagogy, and associated best practices; co-teaching and coordination of supporting instructor/instructor roles

### Assistant Editor, Journalist, Photojournalist

*Quebec Chronicle-Telegraph*, Quebec City, Quebec, Canada, 2012-2014.

Experience & Applied Skills: co-managing assignments, production, editing and community outreach; coordinator for 250th anniversary of the newspaper; photographing and writing about community events, cultural activities and newsworthy endeavors; composition of 3-5 articles weekly (500-800 words) with photos and captions; interpersonal skills; writing; photography; meeting tight deadlines; working remotely (telecommuting); bi-lingual communication requirements (English-French); interviewing; community networking; social media relations

### Science Editor and Writer

CORDIS, Greece; I worked remotely. 2014.

*Cordis is an information portal devoted to European Union-funded research, technological development and innovation.*

Experience & Applied Skills: weekly transformation of 1-3 research reports into reader-friendly briefs; meeting tight deadlines; working remotely (telecommuting); addressing multi-lingual communication challenges; international coordination; writing and editing based on source material typically written by scientists whose first language was not English.

### Communications coordinator

Literacy Quebec, Quebec City, Quebec, Canada, 2012-2014.

*LQ is a provincial-level 'umbrella' organization responsible for serving as liaison between provincial government and community-based member organizations providing English-language adult literacy services in a predominantly French-speaking province.*

Experience & Applied Skills: facilitating and executing re-development of website and online communications platforms; providing IT support for development of online tutor training resource website; development and execution of communications plan, including media relations, press releases and member updates; maintenance of website and Facebook page; IT training and capacity-building for staff and board of directors; updating internal policies and procedures; developing communications materials appropriate to LQ's provincial role and responsibilities; telecommuting; working in collaboration with nonprofit board of directors; bi-lingual communication requirements (English-French)

### Communications, programs & volunteer coordinator

Quebec City Reading Council, Quebec City, Quebec, Canada, 11/2011-11/2013.

*QCRC is a community-based organization providing English-language adult literacy services in a predominantly French-speaking province.*

Experience & Applied Skills: Supporting adult literacy students; coordinating volunteers, tutors, adult learners, and family literacy program participants; coordinating outreach and logistics for two family literacy programs; co-coordinating tutoring program; coordinating Lifelong Learning Program (a continuing education program for English-speaking seniors operated in collaboration with partner community organizations); learning about international nonprofit management and funding constraints; successful grant writing; website and Facebook page maintenance; updated organization's email newsletter system; experience with challenges and opportunities associated with working in a minority language environment; community networking and partnership building with public, private and government partners; streamlining and standardizing program management protocols; working remotely (telecommuting); working in collaboration with nonprofit board of directors; bi-lingual communication requirements (English-French)

### Cultural events & volunteer coordinator

Morrin Centre, Quebec City, Quebec, Canada, 8/2011-11/2011 (seasonal).

*MC is an English-language cultural heritage nonprofit in the French-speaking provincial capital.*

Experience & Applied Skills: Developed advisory committee and piloted programming for cultural program targeting seniors; coordinated volunteer recruitment, screening and assignments; coordinated English Language Discussion group (enhanced communication with participants and increased staff/organizational sense of commitment to program); contributed to improved collaboration and communication with community-based business and nonprofit partners; updated organization's email system from payment-based Constant Contact to free, user-friendly MailChimp (established templates, enhanced use of this system as an e-newsletter, improved accessibility of email updates by providing clear subscription information to staff, volunteers, organization members and the public); coordination and outreach for events including small evening concerts and author readings, a large cultural weekend open house event and a 3-day literary festival; maintenance of Facebook page; work in a minority language environment; exposure to international nonprofit management and funding; community networking and partnership building; public and internal communications enhancement; streamlining and standardizing program and volunteer management protocols; bi-lingual communication requirements (English-French)

### English as a Second Language instructor

Berlitz Language Centre, Quebec City, Quebec, Canada, 1/2011-8/2011.

Experience & Applied Skills: Taught or enhanced English-language communication skills of adult professionals; adult education in a foreign language; bi-lingual communication requirements (English-French)

### Founder, CEO, teaching artist, science communicator

CommNatural science & sustainability communication consulting, 2011-present.

Experience & Applied Skills: writing and editing; publishing a monthly newsletter; client recruitment, management, and retention; project management, public speaking and teaching; business management; grant writing; market research and business marketing; digital and print communication, working remotely (telecommuting); bi-lingual communication requirements (English-French); blogging; website maintenance; collaboration and self-direction; community networking; social media relations; writing, photography, and illustration; meeting tight deadlines; interviewing

### Sustainability & education programs director

MTCC AmeriCorps VISTA at Missoula Urban Demonstration Project, Missoula, Montana, 7/2009-12/2010.

Experience & Applied Skills: Managed and improved sustainable life skills demonstration site; managed and enhanced adult education program (development of advance planning, evaluation and outreach mechanisms); developed and managed youth education program curriculum and program implementation; developed scheduling forms, financial record-keeping process and program and volunteer participation tracking system; developed and maintained new public website, new internal communication website and Facebook page; facilitated board relationship-building and visioning retreat; facilitated new database development; managed membership renewal efforts; facilitated development of comprehensive outreach strategy (monthly e-newsletters, year-long radio campaign, public speaking events, engaging up-to-date outreach materials, public TV broadcasts of education programs); managed six education and resource-sharing programs; co-wrote successful grant applications and fundraising appeals; Internal and public communications; meeting management; work project coordination; working with a wide range of skills and opinions to achieve commonly valued outcomes; community collaboration and partnership building; budget planning and management; site and facilities management; office management; workshop series coordination; adult and youth curriculum development; board coordination and development; fundraising; membership development and cultivation; working in collaboration with nonprofit board of directors; personnel recruitment, training and management (paid staff and volunteers, including site residents, ~50+ individuals)

### Conservation educator and curriculum developer

Boone and Crockett Club Conservation Education Program, Dupuyer, Montana, 12/2007-5/2009.

Experience & Applied Skills: facilitated and instructed multi-day education programs for k-12 students, college students and educators; instructed >2000 k-12 students and >1000 adults in >100 education programs; developed portfolio of program photographs; designed community outreach flyers and updated program brochure, created illustrations as required, and developed program newsletter; represented program in Front Range Conservation Education Group and Crown of the Continent Ecosystem Education Consortium; Program coordination; curriculum development, including lesson plans, activities, and teaching aids; group management; natural history and place-based education for adults and youth; photography, graphic design and illustration; regional multi-agency collaboration; grant writing, maintenance of education facility and science labs; lived and worked on-site at isolated 6,000-acre conservation-ranch property

### Naturalist, Artist-in-Residence, place-based education curriculum developer

Watershed Education Network, Missoula, Montana, 2005-2007.

Experience & Applied Skills: natural history illustration for wetland field guide; developed educational field journal template and associated curriculum; instructed watershed ecology and field journaling programs for schools and summer camps; designed new organization logo; helped develop retail line featuring new logo; worked directly with field and executive directors; collaborated with volunteers; working in collaboration with nonprofit board of directors

### Community Garden Manager

University of Montana and Garden City Harvest, Missoula, Montana, 2007.

Experience & Applied Skills: Coordinated >70 gardeners and additional volunteers; cultivated six 15'x15' community food aid plots; developed participant demographics tracking system; researched and wrote history of 25 year-old garden; facilitated collaboration between University of Montana (UM), UM student government association (financial sponsor), and Garden City Harvest (community garden network); liaison to UM South Campus development committee; designed and oversaw installation of garden interpretive sign; gardener survey development, distribution and analysis; community outreach; budget development, management, and fundraising

### Ranch Assistant

The Nature Conservancy's Pine Butte Guest Ranch, Choteau, Montana, 2006.

Experience & Applied Skills: Garden planning, cultivation and grounds maintenance; co-developed and co-coordinated biodiesel production (including collecting used oils from local businesses); natural history education; guest management; meal planning and preparation; coordinating with chef, ranch manager, and staff naturalists

### Environmental Engineering Department assistant

Montana Tech of the University of Montana, 2003-2004.

Experience & Applied Skills: coordinated and implemented campus recycling project, collected all paper recycling from campus weekly; aided with departmental administrative and outreach tasks