

Travis Seaborn
Curriculum Vitae
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http://traviseseaborn.com

EDUCATION

WASHINGTON STATE UNIVERSITY- Pullman, WA

Doctor of Philosophy in Biology – July, 2019

WESTERN CAROLINA UNIVERSITY- Cullowhee, NC

Master's of Science in Biology – May, 2014

UNIVERSITY OF WASHINGTON – Seattle, WA

Bachelor's of Science in Biology, Minor in Philosophy – March, 2010

PROFESSIONAL APPOINTMENTS AND EXPERIENCE

UNIVERSITY OF IDAHO

National Science Foundation EPSCoR GEM3 Postdoctoral Scholar

Research Associate, July 2019-Present

Department of Fish and Wildlife Sciences, College of Natural Resources

Advisors: Christopher Caudill, Lisette Waits, Paul Hohenlohe

Research Interests and Projects:

- Evaluating adaptive capacity of redband trout using agent-based models
- Trout and Social-Ecological Systems in Idaho
- Landscape genomics of Chinook salmon maturation and run timing
 - Serving as PI, in collaboration with Columbia River Inter-Tribal Fish Commission and a global team of graduate students
- Review paper in prep: Assisted migration to mitigate climate change

Instructor of Record, January 2020-Present

Wildlife 561: Landscape Genetics, Co-Instructor: Spring Semester, 2020

Wildlife 562: Landscape Genetics Lab: Spring Semester, 2020

Bioinformatics and Computational Biology 503: Data Carpentries Geospatial Workshop, Co-Instructor: Spring Semester, 2020

Core Science 231: Fish and Wildlife in a Changing World, Co-Instructor, Fall Semester, 2020

Education Curriculum & Instruction Design / Fishery Resources 504 (cross listed): Teaching Data Analysis and Pedagogy *New Course*, Fall Semester, 2020

Environmental Science 404/504: Distribution and Climate Change Modelling, *New course, planned Spring Semester 2021*

WASHINGTON STATE UNIVERSITY

Teaching Assistant/Lab Instructor, August 2014 - May 2019

Biology 432: Biology of Amphibians and Reptiles: Spring Semesters, 2016 and 2018

Biology 372: General Ecology: Fall Semester, 2015

Biology 106: Introductory Biology: Organismal Biology: Fall Semesters, 2014 and 2016

Science 101: Origins in the Natural World: Fall Semester, 2018

Science 102: Dynamic Systems in the Natural World: Spring Semester, 2019

Research Assistant

Fall Semester, 2017: eDNA assay design for amphibian conservation in montane wetlands. Goldberg lab, in conjunction with Piovia-Scott lab, WSU Vancouver.

Spring Semester, 2017: Conservation genomics of the Sonoran tiger salamander. Goldberg lab, in conjunction with Arizona Game and Fish Department.

Spring Semester, 2015: Genetically informed metapopulation viability analysis of the northern leopard frog. Goldberg lab, in conjunction with Washington State Department of Fish and Wildlife.

WESTERN CAROLINA UNIVERSITY

Teaching Assistant/Lab Instructor, August 2012 - May 2014

Biology 104: Human Biology: Spring Semester, 2014

Biology 141: Principles of Biology II: Fall Semester, 2012; Spring Semester, 2013

Biology 241: Ecology and Evolution: Fall Semester, 2012; Summer Semester, 2013

Biology 140: Principles of Biology I: Fall Semester, 2013

Biology 373: Invertebrate Zoology: Guest lab instructor

Laboratory Preparator/Coordinator, January 2013 - December 2013

Biology 141: Principles of Biology II: Spring Semester, 2013

Biology 140: Principles of Biology I: Fall Semester, 2013

AWARDS AND FUNDING

UNIVERSITY OF IDAHO

Institute for Modeling Collaboration and Innovation Registration Grant, September 2020, \$205

For attending SACNAS 2020 - National Diversity in STEM Conference

EPSCoR Vertically Integrated Program Course Development Grant, June 2020 - June 2021, \$13,400

Funding for 1 new graduate course and 1 new undergraduate course

Science Saturdays Outreach Grant, University of Idaho Arboretum, June 2019, \$400

WASHINGTON STATE UNIVERSITY

Anne and Russ Fuller Fellowship for Interdisciplinary Research Scholarship,

WSU Graduate School, August 2018 - May 2019, \$4,000

McNeil Graduate Scholarship, WSU School of Biological Sciences, May 2018, \$2,000

Gil Pauley Award, Washington Cooperative Fish and Wildlife Research Unit

50th Anniversary, October 2017, \$1,000

WSU Graduate and Professional Student Association Travel Grant, Summer 2017, \$291

Carl. H. Elling Endowment, WSU School of Biological Sciences, Summers 2015-2016, 2018, \$7,159

Graduate Recruitment Fellowship, WSU College of Arts and Sciences, August 2014, \$2,500

WESTERN CAROLINA UNIVERSITY

Teaching Assistant of the Year, Biology, August 2012 - May 2013

Highlands Biological Station Grant in Aid of Research, May - July 2013, \$1,750

Graduate School Study Stipend Grant, August 2013 - May 2014, \$2,000

Poster Competition Runner Up, American Arachnological Society, June 2013, \$250

Graduate Student Association Travel Award, June 2013, \$500

Graduate School Summer Research Assistantship, May - August 2013, \$2,000

Graduate Student Research and Creative Projects Stipend Award, January - May 2013, \$1,000

Residential Living 4.0 Ceremony, August 2012 - May 2013

UNIVERSITY OF WASHINGTON

Friday Harbor Labs Financial Award for Student of the Quarter, Spring Semester 2009, \$250

PUBLICATIONS

IN PRESS AND IN REVIEW

Seaborn, T., C.S. Goldberg, and E.J. Crespi. Integrating land cover data with species distribution models in a wide-ranging amphibian species. *In Press, Ecological Applications*.

Seaborn, T., and C.S. Goldberg. Population analysis and conservation genetics of the last known northern leopard frog (*Rana pipiens*) population in Washington State. *In Press, Journal of Herpetology*.

Seaborn, T., K.R. Andrews, C.V. Applestein, T.M. Breech, M.J. Garrett, A. Zaiats, T.T. Caughlin. Integrating genomics in population models to forecast translocation success. *In Review, Restoration Ecology*.

Seaborn, T., D. Griffith, A. Kliskey, and C. C. Caudill. Building a Bridge Between Adaptive Capacity and Adaptive Potential. *In Review, Global Change Biology*.

Hall, E. M., S. I. Duncan, **T. Seaborn**, J. Cundiff, L. J. Rissler, E. J. Crespi. Ecological adaptation drives wood frog population divergence in life history traits. *In Review, Heredity*.

PUBLISHED

Seaborn, T., C. Goldberg, and E. Crespi. 2020. Integration of dispersal data into distribution modeling in biogeography: What have we done and what have we learned? *Frontiers of Biogeography*.

Pope, K. L., C. S. Goldberg, N. L. Nelson, A. Cummings, **T. Seaborn**, and J. Piovio-Scott. 2020. Designing environmental DNA Surveys in Complex Aquatic Systems: Backpack Sampling for Rare Amphibians in Sierra Nevada Meadows. *Aquatic Conservation: Marine and Freshwater Ecosystems*.

Seaborn, T., S. Hauser, L. Konrade, L.P. Waits, and C.S. Goldberg. 2019. Landscape genetic inferences vary with sampling scenario for a pond-breeding amphibian. *Ecology and Evolution*. 1-16.

Seaborn, T. and K.M. Catley. 2016. Abiotic microhabitat parameters of the spruce-fir moss spider, *Microhexura montivaga* Crosby and Bishop 1925 (Araneae: Dipluridae). *Southeastern Naturalist*. 15(1):61-75.

Crespi, E.J., L. Rissler, N. Mattheus, K. Engbrecht, S. Duncan, **T. Seaborn**, E. Hall, J. Peterson, and J. Brunner. 2015. Geophysiology of wood frogs: landscape patterns of disease prevalence and circulating hormone levels across the eastern range. *Integrative and Comparative Biology*. 55(4): 602-617.

Seaborn, T. 2014. Limpets and their algal epibionts: costs and benefits of *Acrosiphonia* spp and *Ulva lactuca* Growth. *Journal of Marine Biology*. p 7. doi: 10.1155/2014/891943.

Lee, S., **T. Seaborn**, F. Mao, S. Massey, N. Luu, M. Schubert, J. Chien, P. Carpenter, C. Moravec, P. Martin, and M. Flowers. Frequency of Abnormal Findings Detected by Comprehensive Clinical Evaluation at 1 Year after Allogeneic Hematopoietic Cell Transplantation. 2009. *American Society for Blood and Marrow Transplantation*. 15(4):416-420.

PEER-REVIEW WORK

Heredity, 2019-2020, 2 Reviews
Herpetological Review, 2019-2020, 2 Reviews
Molecular Ecology, 2019-2020, 3 Reviews
Molecular Ecology Resources, 2020, 2 Reviews
U. S. Fish and Wildlife Service 5-Year ESA Report, 2020 1 Review
Biodiversity and Conservation, 2019, 1 Review
Ecology and Evolution, 2019, 1 Review
Insect Conservation and Diversity, 2019, 1 Review

OUTREACH AND EXTENSION PUBLICATIONS

CDMetaPop User Manual Co-Author and Programmer
<https://github.com/ComputationalEcologyLab/CDMetaPOP>. 2020.
South Atlantic Landscape Conservation Cooperative: Indicators update blog.
<http://www.southatlanticlcc.org/profiles/blogs/south-atlantic-indicators-update>. (see embedded link in director's post) 2013.
Educational website on *Acrosiphonia*, an algal species through Friday Harbor Labs
http://depts.washington.edu/fhl/mb/Acrosiphonia_Travis/Acrosiphonia_home.html. 2009.
Conservation/Educational Website on the Snare's Crested Penguin under Dee Boersma
<http://mesh.biology.washington.edu/penguinProject/Snares-Crested>. 2008.

PRESENTATIONS

INVITED SYMPOSIUM AND PANELS

Canadian Herpetology Society Webinar Panel: "Strengths, limitations, and practical considerations of using eDNA techniques to detect amphibian pathogens in wild populations." *Planned for November 18, 2020*.

Seaborn, T., S. Hauser, L. Konrade, L.P. Waits, and C.S. Goldberg. "Testing landscape genetic hypotheses for the Columbia Spotted Frog (*Rana luteiventris*) under multiple sample scenarios." U.S. Regional Association of the International Association for Landscape Ecology. May 2017. Symposium: Applications of landscape genetics. Talk. Baltimore, MD.

CONFERENCES PRESENTATIONS AND SEMINARS

Seaborn, T., E. Landguth, and C. Caudill. "Developing a framework for assessing adaptive capacity in Redband Trout using agent-based models." American Fisheries Society, Idaho Chapter. March 2020. Poster. Couer d'Alene, Idaho.
Updated models with phenotypic plasticity presented at International Association for Landscape Ecology – North America. May 2020.

Seaborn, T., and D. Griffith. "Adaptive capacity in conservation biology, genomics, and social-ecological systems science." EPSCoR GEM3 Seminar Series. All Idaho Universities via Zoom. February 2020. Talk. Moscow, Idaho.

- Seaborn, T. "Introduction to agent-based models and future applications." EPSCoR GEM3 Seminar Series. All Idaho Universities via Zoom. September 2019. Talk. Moscow, Idaho.
- Seaborn, T. "Range shifts in a warming world: projecting patterns of range dynamics in cold-adapted amphibians." Seminar Series, School of Biological Sciences. Washington State University. April 2019. Talk. Pullman, Washington.
- Seaborn, T., C.S. Goldberg, and E.J. Crespi. "Individual-Based Models Predict Loss Of Range And Genetic Diversity In Cold-Adapted Amphibians With Climate Change Due To Dispersal Constraints." International Biogeography Society Conference. January 2019. Lightning Talk and Poster. Malaga, Spain.
- Seaborn, T., and C.S Goldberg. "Genetically informed metapopulation viability analysis to understand effects of translocation on the last Northern leopard frog (*Rana pipiens*) population." Washington Cooperative Fish and Wildlife Research Unit 50th Anniversary Symposium. Gil Pauley Award. Poster. October 2017. Seattle, WA.
- Seaborn, T., Dawson, K., Schock, D.M., and E.J. Crespi. "Integrative Health Assessment of Early Life Stages of Wood Frogs (*Lithobates sylvaticus*)." International Congress of Comparative Endocrinology and SBS Symposium. July 2017. Poster. Pullman, WA, USA and Banff, AB, CA.
- Seaborn, T., S. Hauser, L. Konrade, L.P. Waits, and C.S. Goldberg. "Testing landscape genetic hypotheses for the Columbia Spotted Frog (*Rana luteiventris*) under multiple sampling scenarios." Landscape genetics distributed graduate seminar synthesis meeting. May 2016. Talk. Coeur d'Alene, ID.
- Seaborn, T., Goldberg, C.S., and E.J. Crespi. "Designing field techniques to evaluate dispersal distance and variation in juvenile wood frogs (*Lithobates sylvaticus*) to better understand range shifts in response to climate change." SBS Symposium. February 2016. Poster. Pullman, WA.
- Seaborn, T., and E.J. Crespi. "Ecological niche model development of the wood frog, *Lithobates sylvaticus*, including historical and future climate prediction." Wiley Research Exposition, SBS Symposium, EARThS Conference. February 2015. Poster. Pullman, WA.
- Seaborn, T., and K.M. Catley. "Abiotic microhabitat parameters of the spruce-fir moss spider, *Microhexura montivaga* Crosby and Bishop 1925 (Araneae: Dipluridae)." American Arachnological Society Conference. June 2014. Talk. Adviser: Kefyn Catley, Ron Davis, Beverly Collins. Newark, OH.
- Seaborn, T., and K.M. Catley. "Developing a Predictive Model and Defining the Autecology of the Spruce-Fir Moss Spider, *Microhexura montivaga*, Crosby and Bishop 2010." Western Carolina University Graduate Research Symposium. April 2014. Talk. Cullowhee, NC.
- Seaborn, T. "Macro spatial modeling of the habitat requirements of the federally endangered spider *Microhexura montivaga* Crosby and Bishop 1925" American Arachnological Society Conference. June 2013. Student Competition Second Place. Poster. Johnson City, TN.
- Seaborn, T. and E. Carrington. "Limpets and their algal epibionts: costs and benefits of hosting *Acrosiphonia* spp and *Ulva lactuca* on your back." Western Society of Naturalists. November 2009. Talk. Adviser: Emily Carrington. Monterrey, CA.

ADDITIONAL TEACHING AND MENTORING EXPERIENCE

GRADUATE RESEARCH MENTORING

UNIVERSITY OF IDAHO

Jonathan Masingale, Fish and Wildlife Sciences / EPSCoR GEM3

Ph.D. Dissertation: Thermal Behavioral Ecology of Redband Trout

Lukas Grossfurthner, Fish and Wildlife Sciences / EPSCoR GEM3

Ph.D. Dissertation: Sagebrush landscape genomics

Molly Garrett, Fish and Wildlife Sciences / EPSCoR GEM3

Ph.D. Dissertation: Sagebrush steppe community genomics

IDAHO STATE UNIVERSITY

Lizzie Josie, *Committee Member Pending Approval*, Department of Biological Sciences

M.S. Thesis: Using qualitative and quantitative methods to explore stream connectivity outcomes for stakeholders and Yellowstone cutthroat trout.

UNDERGRADUATE RESEARCH MENTORING

WASHINGTON STATE UNIVERSITY

Corrine Connors, School of the Environment, March 2017 - May 2018

Honor's thesis research, nominated Pass with Distinction

Presented Poster at Showcase for Undergraduate Research and Creative Activities (SURCA) of

Columbia spotted frog ecology

Publication in prep.

Ariel Medeiros, School of the Environment, March - August 2017

Ignite Scholar Internship for groups underrepresented in STEM

Columbia spotted frog ecology

Krysta Dawson, School of Biological Sciences, April 2015 - August 2016

Presented Poster at SURCA of Fort McMurray research: wood frog physiology and disease ecology

Kyle Dorosh, School of Biological Sciences, August 2016 - March 2017

Presented Poster at SURCA of Fort McMurray research: wood frog behavior

WESTERN CAROLINA UNIVERSITY

Diana Kuzmich, Molecular Biology, September 2012 - April 2013

Honors project: microclimate measurements of rocky outcrops

SOFTWARE AND DATA CARPENTRY INSTRUCTOR

Center for Advanced Energy Studies / Idaho National Laboratory C3 Computational Training,

Multiple R and Unix Workshops, Helper/Moderator/Instructor, June and August 2020

Geospatial Modelling, Instructor, April 2020 (also listed as a course for students)

Reproducible Science in R, Helper, February 2020

GUEST LECTURES AND ACTIVITIES

Gustavus Adolphus College, Biology 245: Conservation Biology

“Conservation Tools: Understanding distributions and connectivity by using ecological modelling and genetics”, May 2020, included code demonstration in R.

Gustavus Adolphus College, Biology 101: Principles

“Understanding Amphibian Distributions with Climate Change”, September 2019
Washington State University, Biology 432: Biology of Amphibians and Reptiles: Spring Semesters
2016, 2018, 2020
“Amphibian and Reptile Niches and Ranges.” included follow-up exam questions and
assessment through integrated lab work and report for 2016 and 2018. 2020 included code
demonstration in R.
Washington State University, Science 102: Dynamic Systems in the Natural World, March 2019
“History of Life.” 2-part lecture series with multiple types of active learning.
Washington State University, Science 101: Origins in the Natural World: October 2018
“Introduction to Rivers and Streams.”
Western Carolina University, Highlands Biological Station Lecture: Terrestrial Arthropods: July
2013
“Introduction to *Microhexura*.”
Biology 373, Western Carolina University: Invertebrate Zoology: November 2013
“Moss habitat: the microclimate of an endangered species.”

VOLUNTEER AND INFORMAL TEACHING

University of Idaho EPSCoR Genomics Workshop *planned October-November 2020*
Inchelium High School: Evolution Day and Workshop, November 2019
8th and 10th graders, students associated with Colville Confederated Tribes
WSU’s Dr. Universe: Interview-A-Scientist, elementary students, July 2019
Science Saturdays at the University of Idaho Arboretum, elementary students, June 2019
Palouse Clearwater Environmental Institute
STREAM Team 2018, Girls Summer Camp Volunteer: Herps!, 7th-9th grade, August 2018
Animals of the Night: Herpetology Station, pre-K through high school, October 2018
Science After Hours Presenter, high school through adults, February 2017 - May 2018
“Life’s a Niche, be Resilient (or Move)”
Best of Series: “How frogger helps us think about real frogs”
Skype-A-Scientist, 3rd and 6th grades, Fall Semester 2017 - Spring 2018
Moscow Public Library “Science-it!” and “Spooky Science” pre-K through 7th grade, February and
October 2018
Palouse Science Discovery Center Developmental Biology Day, November - December 2017
WSU Biology Graduate Student Association:
Annual Biology Graduate Student Association Outdoor Family Funday, pre-K through high
school, April 2015-2019
Annual Biology Graduate Student Association Fall Family Open House, pre-K through high
school, November 2014-2018
Garfield High School Biology Class Volunteer Teacher’s Aide, 10th grade, September 2008 - March
2009
Intertidal Natural History: Guest Presenter and Field Trip Leader, 1st-6th grade, Friday Harbor,
March - June, 2009

PUBLIC CURRICULUM DEVELOPMENT

New EPSCoR GEM3 Vertically Integrated Program: Models and Mapping of Species’ Spaces.
1-year program cycle with 1 new graduate course, and 1 cross-listed graduate/undergraduate
course.

Biology 432: Biology of Amphibians and Reptiles: Spring Semesters 2016, 2018
Bottom-Up vs. Top-Down Niche and Range Modelling for an Invasive Amphibian
Morphology of Amphibians and Reptiles

OTHER SYNERGISTIC ACTIVITIES

UNIVERSITY OF IDAHO

Search Committee Member: Postdoctoral Fellow in Scenario Modelling, 2020

WASHINGTON STATE UNIVERSITY

Phoenix Conservancy, Herpetology Survey Consultation, Smoot Hill, September 2017 - October 2018

Palouse Clearwater Environmental Institute

Paradise Creek Clean-Up Volunteer, April 2016

Eastern Washington Regional Science Fair Judge, elementary and secondary ages, March 2017 - March 2019

WSU Biology Graduate Student Association

Treasurer, August 2017 - May 2019

President, August 2016 - May 2017

Secretary, August 2014 - May 2015

WSU Graduate and Professional Student Association

School of Biological Sciences Senator, August 2015 - May 2016

EARTHs Session Moderator and Volunteer, April 2015

WSU Wiley Research Exposition Volunteer, February 2015

WESTERN CAROLINA UNIVERSITY

Annual Western Regional Science and Engineering Fair Judge, March 2013-2014

South Atlantic Landscape Conservation Cooperative Biological Indicator Consultant, January - June 2013

South Atlantic Landscape Conservation Cooperative Blogger, January - June 2013

Darwin Day Volunteer, February 2013

UNIVERSITY OF WASHINGTON

Research at University of Washington Medical Center / Fred Hutchinson Cancer Research Center, October 2006 - March 2009

Global Medical Brigades September - December 2008

Children's Hospital Volunteer August 2006 - June 2007

PROFESSIONAL DEVELOPMENT WORKSHOPS AND SEMINARS

SACNAS 2020: The National Diversity in STEM Conference, *planned October 2020*

ESRI MOOCs:

- Do-It Yourself Apps, Certificate August 2020
- Cartography, Certificate May 2020
- Spatial Data Science: The New Frontier in Analytics, Certificate April 2020

Carpentries Instructor Training for Data Carpentry, February 2020

University of Idaho Center for Excellence in Teaching and Learning Workshops, August 2019 – Present

- What do I tell my student: unifying faculty and student expectations and compliance
- What do I tell my student: common syllabus language for a flexible fall
- The Modified Tutorial Model: What it is and Why it Might be Right for Me
- Building a One-Stop Shop for Your Class
- Making HyFlex, Online, and Other Classes accessible and inclusive (UDL)
- HyFlex for Engagement
- Flexing your labs and collaborative education
- All-in on Online
- Labs, Studios, and Fieldwork: creative solutions that work
- I am afraid my students will cheat, what can I do?
- HyFlex Teaching: A How-To-Session
- HyFlex Teaching with Zoom
- Show, Don't Tell: Online Portfolios as Assessments
- Expanding Access to Global Learning through Virtual Exchange
- Diffusing the Bias Bomb in Class: Applied Strategies
- Balancing Learning and Growth for Better Educational Outcomes

DataONE Webinar Series

Tidy-ing Your Data: Simple Steps for Reproducible Research, December 2019

Spatial Machine Learning in ArcGIS Workshop, University of Idaho, November 2019

University of Idaho Preparing Future Faculty Course, August - December 2019:

- Teaching and Learning with Technology
- TILT Method for Transparency in assignments and grading
- Teaching for Learning: How to Engage Students and Enrich the Learning Experience
- Working Relationships: collegiality, egos, and imposter syndrome
- Diversity and Inclusion in Teaching and Learning

Broader Impacts 101: Developing, Implementing and Evaluating BI activities, University of Idaho Workshop, November 2019

University of Idaho Randall Women in Science Inclusion Diversity, Equality Alliance
Pronoun Training from University of Idaho LGBTQA Office, October 2019

USGS Climate Adaptation Webinars, Online, May and September 2018:

Connectivity for Climate Change: Assessing threats and identifying conservation actions
Evaluating the effectiveness of seasonally assisted migration through fish rescue programs

Conservation Biology Institute Webinar Series, Online, 2016-2017

Webinars: Climate Mapping in the Northwest Climate Toolbox. September 2017.
State-and transition simulation models: a framework for forecasting landscape change. January 2017
Connectivity analyses accounting for stepping stone patches in fragmented landscapes. September 2016

UCLA/La Kretz Center Conservation Genomics Workshop: Malibu, CA, March 2016

RADSeq Weekend Workshop, University of Idaho: Moscow, ID February 2016

Professional Development Initiative, Washington State University: Pullman, WA 2016

Sessions Attended: Modern Job Search and Networking, November
Writing Workshop: Literature Reviews, November
Effective Group Work, October
The Professor Is In: Dr. Karen Kelsky, February

Teaching Assistant Workshop, Washington State University: Pullman, WA September 2015, 2017

Workshop attended both years offered
Sessions Attended: Leadership in Science Instruction
Engaging Students in Class

Block Course Design and Syllabus Construction: Western Carolina University, Cullowhee, NC,
Spring Semester, 2013

Mock syllabus created for “Principles of Evolution and Ecology” course

REFERENCES

Christopher Caudill – Primary Advisor for Post-Doctoral Work (co-advised with Lisette Waits)

Department of Fish and Wildlife Sciences

University of Idaho

Email: caudill@uidaho.edu

Phone: 208-885-7614

Erica Crespi – Primary Advisor for Dissertation and Research

School of Biological Sciences

Washington State University

Email: erica.crespi@wsu.edu

Phone: 509-335-3833

Caren Goldberg – Co-advisor for Dissertation and Research

School of the Environment

Washington State University

Email: caren.goldberg@wsu.edu

Phone: 509-335-3673