

CURRICULUM VITAE

University of Idaho

DAVID ROON
CLINICAL FACULTY
NATURAL RESOURCES AND SOCIETY

12.20.2019
208-885-01295
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DATE OF FIRST EMPLOYMENT AT UI: 2006

DATE OF TENURE: Untenured

DATE OF PRESENT RANK OR TITLE: 2015

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Master of Fine Arts, University of Idaho, Moscow, Idaho, 2017, Studio Art

PhD, University of Idaho, Moscow, Idaho, 2004, Natural Resources

B.S., Calvin College, Grand Rapid, Michigan, 1993, Biology

EXPERIENCE:

Teaching, Extension and Research Appointments:

University of Idaho, College of Natural Resource, 2015-2019

- Clinical Faculty (Program Coordinator, Ecology and Conservation Biology Program- Student advising, facilitation of senior thesis program, program administration)

University of Idaho, College of Natural Resource, 2010-2019

- Program leader, NSF funded program titled 'Conservation Research Opportunities for Students in the Ecuadorean Andes' (Recruitment, research planning and implementation, web-development, outreach and facilitation)

University of Idaho, Department of Fish and Wildlife Resources, University of Idaho, 2006-20014

- Program Lead, Ecology and Conservation Biology

University of Idaho, Department of Fish and Wildlife Resources, University of Idaho, 2006-20014

- Teaching Postdoc, College of Natural Resources

TEACHING ACCOMPLISHMENTS:

Areas of Specialization: Conservation Biology, Environmental Science, Art

Courses Taught:

- Conservation Biology (WLF440) 2003-2006, 2010-2011, 2014-2019
- Introduction to Ecology and Conservation Biology (NR200) 2006-2017, 2019
- Ecology and Conservation Biology Thesis Seminar (NR300) 2016-2019
- Seminar: Biodiversity and the Ecuadorean Andes (Wildlife 400/501) 2011-2013, 2016-2019
- Art & Ecology (ISEM 301) 2018-2019
- Explorations in Conservation Biology (CORS 230) 2015-2018
- Foundations in Art (Art 212) 2016
- Comparative Vertebrate Anatomy (WSU) 2012
- Mammalogy (Bio 483) 2007-2010
- The New Wild West (CORE 106) 2003-2008

Students Advised:

Undergraduate Students: 100 advised to completion of degree, 7 number per year)

Courses Developed:

- Introduction to Ecology and Conservation Biology (NR200)
- Ecology and Conservation Biology Thesis Seminar (NR300)
- Art & Ecology (ISEM 301)
- Explorations in Conservation Biology (CORS 230)
- Seminar: Biodiversity and the Ecuadorian Andes (Wildlife 400/501)

Recent Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

- Multiple Guest Lectures at University of Idaho, including:
 - Fish Management
 - Wildlife Population Ecology
 - Introduction to Natural Resources
 - Metapopulation Workshop
 - Introduction to Biology,
 - Ecology and Conservation Biology (ECB) Introductory Seminar
- Workshop on Conservation Genetics, Loja, Ecuador 2018
- Ecology and Art: Invited Workshop. Puerto Ayora, Ecuador 2018
- Art and Ecology: Invited Workshop. University of Minnesota 2017
- Renfrew Lecture (2017)
- Idaho Environmental Education Association (2015, 2017)

SCHOLARSHIP ACCOMPLISHMENTS: (Including scholarship of teaching and learning, artistic creativity, discovery, and application/integration)

Recent Peer Reviewed Publications

- Camp, MJ, Rachlow, JL, Cisneros, R, Roon, D, Camp, RJ. (2017) Evaluation of Global Positioning System telemetry collar performance in the tropical Andes of southern Ecuador. *Natureza & Conservação*
- DeMay, SM, DA Roon, JL Rachlow, JL, R Cisneros. (2015). Selective foraging on bromeliads by Andean bears in the Ecuadorian páramo. *Ursus*.
- Kendall, KC, JB Stetz, DA Roon, LP Waits, JB Boulanger, D. Paetkau (2008) Grizzly bear density in Glacier National Park. *Journal of Wildlife Management*. 72(8):1693-1705.
- Boulanger, JB, KC Kendall, JB Stetz, DA Roon, LP Waits, D Paetkau (2008) Use of multiple data sources to improve DNA-based mark-recapture population estimates of grizzly bears. *Ecological Applications* 18:557-589.
- Roon, D., L. Waits, & K. Kendall (2005) A simulation test of the effectiveness of several methods for error-checking non-invasive datasets. *Animal Conservation* 8:203-215
- Roon, D. A., M. E. Thomas, K. C. Kendall, L. P. Waits (2005) Evaluating mixed samples as a source of error in non-invasive genetic studies. *Molecular Ecology* 14:195 – 199.
- Roon, D.A., K.C. Kendall & L.P. Waits. (2003). A quantitative evaluation of two methods for preserving DNA in non-invasively collected hair samples. *Molecular Ecology Notes*
- Waits, LP, D Roon, M Murphy. (1999) Non-invasive genetic sampling of bear populations. *International Bear Association Newsletter* 8:23-25

Exhibitions, Performances, Recitals:

- 2019 American Ornithological Meeting (Anchorage) Invited presenter
- 2017 MFA show, Prichard Gallery, University of Idaho
- 2017 Seeing with Animals, Eastern Kentucky University
- 2016 Beyond Borders, Western Washington University (best in show winner)
- 2015 Innovation Showcase, University of Idaho (best in show winner)
- 2015 'Water' Juried show. Umquaa Valley Arts Association, Roseburg, Oregon
- 2015 'Water' Juried show. Hera Gallery, Wakefield, Rhode Island
- 2015 Project Ekphrasis, Reflections Gallery, University of Idaho
- 2015 Exhibition- Bridge Gallery, Denver. Creation Care: Water

- 2014 Potters Council Juried Show: Transcending Material (at the National Council on Education for the Ceramic Arts (NCECA) Conference in Milwaukee 2014)
- 14th Annual Maritime Art Exhibit, Harbor History Museum, Gig Harbor, WA (2013)
- Nineteenth Annual Nellie Allen Smith Juried Pottery Competition, Fayetteville, NC (2013)

Professional Meeting Papers, Workshops, Showings, Recitals:

- M. Myers, R. Cisneros Vidal, E. Castillo, C. Avila, T. Azizeh, D. Roon, L. Waits, (2018). Determining Species Richness and Abundance of Bats in Urban, Forested, and Pasture-Mosaic Habitats in the Southern Ecuadorian Andes Using Different Sampling Methods. National Wildlife Society Conference. Cleveland, Ohio
- T. Azizeh, R. Cisneros, C. Avila, D. Roon, L. Waits (2018). Ecotoxicology Of Bats in Urban, Pasture And Forested Sites of The Southern Ecuadorian Andes. Ecuadorian Mammalogy Conference. Loja, Ecuador.
- T. Azizeh, R. Cisneros, E. Castillo, C. Avila, M. Myers, D. Roon, L. Waits, N. Bailon, P. Dalgo (2018). Ecotoxicology of Bats in Urban, Pasture and Forested Sites of the Southern Ecuadorian Andes. National Wildlife Society Conference. Cleveland, Ohio.
- Roon, D.A. (2018). Communicating ecological threat through Fine Art. Casa De La Cultura, Puerto Ayora, Ecuador
- E. Gosselin, R. Cisneros, D. Roon, L. Waits (2017). Impacts of land-use change on riparian bird and bat communities in the Ecuadorian Andes. Wildlife Society Meeting. Albuquerque, New Mexico.
- Roon, D.A. (2017). Art and Science- communications at the intersections through Printmaking. University of Minnesota
- K. Kendall, J.B. Stetz, D.A. Roon, L. P, Waits, J. B. Boulanger, D. Paetkau (2008) Grizzly bear density in Glacier National Park. Montana Chapter of the Wildlife Society, MT.
- K. Kendall, J.B. Stetz, D.A. Roon, L. P, Waits, J. B. Boulanger 2007. DNA-based density estimate for grizzly bears in Glacier National Park, Montana, Wildlife Society Meeting, Tucson, AZ.
- K. Kendall, J.b. Stetz, D.A. Roon, L. P, Waits, J. B. Boulanger, and D. Paetkau. 2006. Grizzly bear population density in Glacier National Park, Montana. International Bear Association Meeting, Japan.
- D. A. Roon, L. P. Waits, J. Stetz, K. Kendall. 2006. A non-invasive genetic estimate of abundance for black bears (*Ursus americanus*) in the Greater Glacier Ecosystem. Wildlife Society, AK.
- K. Kendall, J.B. Stetz, D.A. Roon, L. P, Waits, J. B. Boulanger, and D. Paetkau. 2006. Grizzly bear population density in Glacier National Park, Montana. Carnivores 2006s
- Roon, D., J. Hinson, M. Soulen, E. Strand, L. P. Waits. 2005. Student landowner collaborations in Southern Idaho: a paradigm for landscape level conservation planning. Society for Conservation Biology. Brasilia, Brazil.
- Kendall, K., J. Stetz, L. Waits, D. Roon. 2005. Sampling Bears Using Rub Trees. International Bear Association, Italy.
- Roon, D., K. Kendall, L. Waits, 6/03, Microsatellite genotyping error and demographic assessment: a simulation test of the effectiveness of several common error-checking protocols, Society for Conservation Biology, Duluth, Minnesota.
- Kendall, K., L. Waits, D. Roon, J. Stetz 8/02 Bear rubbing activity: implications for population monitoring. International Conference for Bear Research and Management, Norway
- Roon, DA, J. Chivaro, K. Kendall, L. Waits 7/02 MtDNA sequencing reveals fine scale spatial population structure for *Ursus arctos* in Glacier National Park, Society for Conservation Biology, Canterbury England
- Roon, DA, J. Chivaro, K. Kendall, L. Waits 4/02 MtDNA sequencing reveals fine scale spatial population structure for *Ursus arctos* in Glacier National Park, Northwest Chapter Wildlife Society Meetings, Spokane.
- Roon, D., L. Waits, K. Kendall, 5/01, The effectiveness of filtering non-invasive genetic data: a case study from Glacier National Park. International Bear Association meetings, JacksonHole WY
- Kendall, K, L. Waits, D. Roon, M. Murphy, J. Stetz, 5/01, Biases associated with sampling bears with hair traps, rub trees, and scat surveys. International Bear Association meetings, JacksonHole WY (Best paper award)
- Kendall, K., L. Waits, D. Roon, M. Murphy, J. Stetz. 06/01. Biases associated sampling bears with hair traps, rub trees and scat surveys. American Society of Mammalogists, Missoula, MT
- Waits, L., K. Kendall, D. Roon, M. Murphy, 9/01, Non-Invasive Genetic Sampling of Bears at an Ecosystem

- Scale Using Multiple Collection Methods, Conservation Genetics Meeting, Lausanne, Switzerland
- Roon, D, L. Waits, K. Kendall, 9/01, Trail travails: The impact of human presence on the Non-invasive genetic sampling of brown bears (*Ursus arctos*) and black bears (*Ursus americanus*) within a protected landscape, Conservation Genetics Meeting, Lausanne, Switzerland
- Waits, L., K. Kendall, M. Murphy, D. Roon, J. Adams, 11/00, Non-invasive genetic sampling: promise and pitfalls. Carnivores 2000, Denver, CO.
- Kendall, K., L. Waits, M. Murphy, D. Roon, J. Stetz. 11/00, Non-invasive genetic sampling of grizzly bear and black bear population status at an ecosystem scale, Carnivores 2000, Denver, CO
- Roon, D., K. Kendall, L. Waits 10/00. Tracking bear demography in the Greater Glacier Area of the U.S.A. through non-invasive DNA sampling, Managing for Bears in Forested Environments, Revelstoke, BC.
- Kendall, K, L. Waits, D. Roon, M. Murphy, K. Peterson. 6/00 Grizzly bear population status in northwestern Montana. Society for Conservation Biology. Missoula, MT.
- Roon, D., L. Waits, and K. Kendall. 6/00. Non-invasive genetic sampling, genotyping error, and bias potential in demographic studies. Society for Conservation Biology. Missoula, MT
- Roon, D., L. Waits, K. Kendall. 5/00. Genetics of Glacier National Park Brown Bears: Demographics and Population Structure through Non-invasive Genetic Sampling. Western Black Bear Conference. Coos Bay, Oregon
- Kendall, K., L. Waits, D. Roon, M. Murphy, K. Peterson. 3/00 Use of DNA to monitor grizzly bear population status. . Northwest Chapter of the Wildlife Society, Post Falls, ID
- Waits, L., K. Kendall, M. Murphy, D. Roon, 3/00, Non-invasive genetic sampling of wildlife populations: Promise and Pitfalls. Northwest Chapter of the Wildlife Society, Post Falls, ID.
- Roon, D., L. Waits, K. Kendall, 8/99, Genetics of Glacier Park Brown Bears: Abundance and population structure through Non-invasive Genetic Sampling, Ecological Society Meetings, Spokane, Washington.
- Roon, D., L. Waits, K. Kendall, 6/99, Northern Continental Divide Brown Bears: Minimal Abundance and Population Structure through Non-Invasive Hair Trapping. Society for Conservation Biology, College Park, Maryland.
- Waits, L, K. Kendall, M. Murphy, Dave Roon, 2/99, Non-invasive genetic sampling: Promise and Pitfalls. Species at Risk Conference, Kamloops, Canada

SERVICE:

Major Committee Assignments:

- Ecology and Conservation Biology Committees on Thesis and Curriculum (2015-2019)
- Ecology and Conservation Biology (ECB) Committee on Learning Outcomes (2017, 2008-2009)
- College of Natural Resources Curriculum Committee (2015-2019)
- Department of Fish and Wildlife Film Festival Committee (2017-2019)
- Environmental Science Curriculum Re-design Committee (2018-2019)
- University of Idaho Honors Program Committee (2008-2010)

Professional and Scholarly Organizations

Member; Society for Conservation Biology (1998-present), International Association for Bear Research and Management (1999-2010, Wildlife Society (2005-2010)

Outreach Service:

International Exchange Program with Universidad Tecnica Particular de Loja, Ecuador

- Co-Developer of undergraduate research exchange grant ‘An Interdisciplinary Team-Based International Research Experience in Biodiversity Conservation and Sustainable Community Development in the Ecuadorian Andes’ (funded 2010)
- Planning workshops related to undergraduate research, a joint University of Idaho-UTPL masters program (and other topics) 2009, 2010, 2017
- Workshop on Conservation Genetics, 2018, 2008

Community Service:

- First Presbyterian Church- Music Direction, Sunday Current-events group Leadership
- Hope Center Volunteer through First Presbyterian Church