

# TONYA L. RAMEY, PH.D.

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## EDUCATION

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**Doctor of Philosophy, Forest and Conservation Sciences** 2011 – 2019

University of British Columbia, Vancouver, BC, Canada

*“An experimental test of factors limiting leaf litter mass loss and invertebrate assemblages in riparian zones of forested headwater streams”*

**Master of Arts, Conservation Biology** 2008 – 2010

Columbia University, New York, NY

*“Trace element concentrations in red blood cells of Antillean manatees in Belize”*

**Bachelor of Science, Ecology and Evolutionary Biology** 2005 – 2008

University of Arizona, Tucson, AZ

Graduated with Honors, Summa Cum Laude

## RESEARCH INTERESTS

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**Community ecology**

**Freshwater and riparian ecology**

Invertebrate conservation

Ecotoxicology

Restoration and conservation biology

Wildlife rehabilitation, disease and urban ecology

## PUBLICATIONS

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**Ramey TL**, Prescott CE, Richardson JS. 2020. Influence of moisture, nutrients, and distance from stream on early-stage mass loss of western red cedar leaf litter in headwater riparian forests. Canadian Journal of Forest Research 50: 1391–1398. <https://doi.org/10.1139/cjfr-2020-0176>

**Ramey TL**, Richardson JS. 2018. Experimental test of water, nutrients, and microclimate on leaf litter mass loss in headwater riparian forests. Ecosphere 9, e02478. doi: 10.1002/ecs2.2478

**Ramey TL**, Richardson JS. 2017. Terrestrial invertebrates in the riparian zone: Mechanisms underlying their unique diversity. BioScience 67: 808–819. <https://doi.org/10.1093/biosci/bix078>

Wilson MJ, **Ramey TL**, Donaldson MR, Germain RR, Perkin EK. 2016. Communicating science: Sending the right message to the right audience. *FACETS* 1: 127–137.  
doi: 10.1139/facets-2016-0015

## CONFERENCES, WORKSHOPS, AND POSTER SESSIONS

**Ramey TL**, Ortega-Rodriguez CL, Chumchal MM, Swannack T, Nowlin WH. 2022. Using methylmercury to examine fluxes in riparian food webs: Tales of an atypical tracer. In-person oral presentation at the Joint Aquatic Sciences Meeting, Grand Rapids, Michigan.

**Ramey TL**, Ortega-Rodriguez CL, Chumchal MM, Swannack T, Nowlin WH. 2022. Using methylmercury to examine fluxes in riparian food webs: Tales of an atypical tracer. In-person oral presentation at the Annual Meeting for the South Central Chapter of the Society of Environmental Toxicology and Chemistry (SETAC), Corpus Christi, TX.

**Ramey TL**, Richardson JS. 2014. Stream influences on leaf litter decomposition in the riparian zone. Oral presentation at the Joint Aquatic Sciences Meeting, Portland, Oregon.

**Ramey TL**, Richardson JS. 2013. The influence of abiotic factors on decomposition in the riparian area. Poster session presented at the Canadian Society for Ecology and Evolution Conference, University of British Columbia-Okanagan, Kelowna, British Columbia.

**Ramey TL**, Richardson JS. 2011. Aquatic invertebrate diversity on small wood in headwater streams of British Columbia. Poster session presented at the Future Forestry Leaders Symposium, University of British Columbia, Vancouver, British Columbia.

## PUBLICATIONS IN PREPARATION

**Ramey TL**, Ortega-Rodriguez CL, Chumchal MM, Swannack T, Nowlin WH. 2022. Using methylmercury to examine fluxes in riparian food webs: Tales of an atypical tracer. \*\*In preparation for *Ecological Applications* (submission for review expected by May 2023)

**Ramey TL**, Richardson JS. 2022. Abundance and diversity of terrestrial riparian invertebrates near headwater streams in southwestern British Columbia. \*\*In preparation for *Forest Ecology and Management* (submission for review expected by Dec 2022)

**Ramey TL, Bonde RK, Kielstra BW, Wilson MJ, Barber DS, Auil-Gomez N, Powell JA, Aguirre AA.** 2022. Subpopulation location drives patterns of trace element concentrations in red blood cells of Antillean manatees (*Trichechus manatus manatus*). \*\*In preparation for Marine Pollution Bulletin (submission for review expected by Dec 2022)

## RELEVANT EMPLOYMENT AND VOLUNTEER POSITIONS

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Veterinary Technician 2020 – present

Family Vet Care of Chandler (2/2021 – present)

Animal Care Hospital of Phoenix, Phoenix, AZ (8/2020 - 2/2021)

- Interview clients for pet's medical information
- Record vital signs, assess body condition, input medical records
- Perform laboratory tests on blood, urine, cell cultures
- Take x-rays, draw blood
- Fill prescriptions, medicate patients

Contract Biologist (field work, as needed)

2019 – present

Liberty Wildlife, Phoenix, AZ

- Monitor wildlife at in field setting such as electrical substations and construction sites to ensure their safety
- Capture and transport animals to Liberty Wildlife for care Invasive Species Removal Volunteer (field work)

Arizona Game and Fish Department (volunteer)

2019

Phoenix, AZ

- Manually remove invasive apple snails (*Pomacea canaliculata*) via kayak along the Salt River, working with a team of volunteers
- Also removed trash and spoke with the public about the invasive snails

Daily Care, Vet Night, and Education Volunteer

2017 – present

Liberty Wildlife, Phoenix, AZ

- Train new volunteers in safe handling of raptors
- Assess, medicate, and x-ray wildlife in hospital under the direction of attending veterinarians
- Assess flight ability and release of animals in the greater Phoenix area
- Feed, clean, and handle animals for veterinary care
- Present live education animals (raptors and reptiles) to various groups (classrooms, retirement communities, public events) around Arizona to spread awareness of conservation issues and Liberty Wildlife's role in conservation

Animal Care Volunteer	2015–2016
Vancouver Animal Emergency and Referral Center, Vancouver, BC, Canada	
<ul style="list-style-type: none"> <li>• Assist with the medical care and handling of pets and wild animals</li> <li>• Feed and clean patients, provide medications, and stock hospital</li> </ul>	
Animal Care Volunteer	2013–2015
Wildlife Rescue Association, Vancouver, BC, Canada	
<ul style="list-style-type: none"> <li>• Handle wildlife for medical assessment and medication</li> <li>• Prepare diets by species and feed animals, clean and stock hospital</li> </ul>	
Graduate Teaching Assistant	2011–2016
University of British Columbia, Vancouver, BC, Canada	
<i>Three courses: Aquatic Ecosystems and Fish in Forested Watersheds Forest Wildlife Ecology and Management, and Fundamentals of Evolutionary Biology</i>	
<ul style="list-style-type: none"> <li>• Present weekly laboratories</li> <li>• Hold office hours to assist students with assignments</li> <li>• Evaluate student presentations and assignments</li> <li>• Present lectures as needed</li> </ul>	
Graduate Teaching Assistant	2009
Columbia University, New York, NY	
<i>One course: Environmental Biology II—Organisms to the Biosphere</i>	
<ul style="list-style-type: none"> <li>• Present weekly laboratories (and help to design labs when needed)</li> <li>• Grade assignments</li> <li>• Lead student field trips to the American Museum of Natural History, the New York Botanical Garden, and field assignments around the university</li> </ul>	
Undergraduate Teaching Assistant	2008
University of Arizona, Tucson, AZ	
<i>One course: Introduction to Oceanography</i>	
<ul style="list-style-type: none"> <li>• Hold weekly study sessions to assist students</li> <li>• Grade assignments</li> </ul>	

## AWARDS, SCHOLARSHIPS, AND CERTIFICATES

International Partial Tuition Scholarship	2011 – 2019
University of British Columbia	

Four Year Doctoral Fellowship University of British Columbia	2011 – 2015
IMAJO Cedar Management Fund University of British Columbia	2012 – 2013
Biology Program Teaching Assistant Professional Development (BioTAP) Certificate University of British Columbia	2012
Phi Beta Kappa Honors Society University of Arizona	2008
Wildcat Excellence Award University of Arizona	2005 – 2008

## **PROFESSIONAL AFFILIATIONS**

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Ecological Society of America	2018 – present
International Wildlife Rehabilitation Council	2017 – 2022
National Wildlife Rehabilitation Association	2019 – 2022
Society for Freshwater Science	2014 – 2015, 2022 - present
Wildlife Disease Association	2015 – 2022

## **SKILLS**

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- Excellent speaking and instruction skills
- Project design and management
- Proposal writing and budgeting
- Field site management
- Manuscript drafting and peer review
- Multivariate analyses
- R Studio
- Working knowledge of ArcGIS
- GPS and radio telemetry
- Able to use flow meters, data loggers, muffle ovens, drift nets, pitfall traps
- Plant and animal identification and handling
- Comfortable hiking and using 4WD in rough terrain and inclement weather

## PROFESSIONAL REFERENCES

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Dr. Weston Nowlin, Ph.D. Professor/Postdoctoral Advisor, Texas State University (512) 245–2282	<a href="mailto:wnowlin@txstate.edu">wnowlin@txstate.edu</a>
Dr. John S. Richardson, Ph.D. Professor/Ph.D. Advisor, University of British Columbia (604) 822–6586	<a href="mailto:john.richardson@ubc.ca">john.richardson@ubc.ca</a>
Dr. Peter Kiffney, Ph.D. Ph.D. Committee, National Oceanic and Atmospheric Admin. Administration (360) 393–1406	<a href="mailto:peter.kiffney@noaa.gov">peter.kiffney@noaa.gov</a>
Jan Miller, C.V.T. Animal Care Coordinator, Liberty Wildlife (480) 620–1551	<a href="mailto:JanM@libertywildlife.org">JanM@libertywildlife.org</a>
Dr. Cindy E. Prescott, Ph.D. Professor, Ph.D. Committee, University of British Columbia (604) 822–4701	<a href="mailto:cindy.prescott@ubc.ca">cindy.prescott@ubc.ca</a>