

TAYLOR R. PELTIER

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EDUCATION

University of Wisconsin- Madison, Madison, WI

August 2019-Present

- Master of Science in Wildlife and Forestry Ecology - *Wildlife option*

Expected May 2022

Pennsylvania State University, State College, PA

May 2011-May 2015

- Bachelor of Science in Wildlife and Fisheries Science - *Wildlife option*

RESEARCH EXPERIENCE

Master of Science Research Assistantship, University of Wisconsin, Madison, WI

August 2019-Present

Major Advisor: Jonathan Pauli

- Deployed a network of 120 trail cameras across Wisconsin and Isle Royale to capture timing of snowshoe hare molt phenology across a snow isocline and document the impacts of climate change on the species.
- Represented collaboration between UW Madison, Wisconsin Department of Natural Resources, United States Forest Service, Great Lakes Indian Fish and Wildlife Commission, Red Cliff Band of the Ojibwe and the National Parks Service.
- Trapped and collected genetic samples from snowshoe hares at the extent of their southern range boundary to disentangle state-wide genetic patterns.
- Coordinated and collected with museums to image historic snowshoe hares to construct phenological molt history in the region.
- Continued porcupine captures at Sandhill State Wildlife Area as part of a twenty-year demographic study. Porcupines are PIT-tagged, collared, monitored for winter survival and mortalities are investigated.
- Assisted with mesocarnivore scat collections for two weeks on Isle Royale as part of a wolf repatriation research project.
- Mentored and supervised two undergraduate students assisting with the project.
- Supervised a research technician for three months during snowshoe hare genetics and porcupine demography capture efforts.
- Deployed fox hair snares and collected hair samples in Isle Royale National Park.
- Assisted a fellow graduate student with their PhD research using a trained dog as part of a stress and physiological response project.

Northern Goshawk Survey Crew Leader, Institute for Bird Populations, Quincy, CA

June 2019-August 2019

Primary Investigator: Lynn Schofield

- Supervised a crew of five technicians to conduct nesting goshawk surveys across the Sierra mountain range.
- Organized field schedule, equipment, safety training and personnel as well as reporting results to superiors .
- Utilized acoustic call devices to locate goshawk nests and adult pairs.

Snapshot Wisconsin Research Technician, WDNR, Madison, WI

December 2017-May 2019

Primary Investigator: Dr. Jennifer Stenglein

- Managed trail camera and volunteer management Oracle databases using SQL and R programming language.
- Worked with private land owners and state agencies to maintain volunteer based trail cameras.
- Oversaw classification of over 24 million photographs utilizing a crowdsourcing platform.
- Organized a dense network of over 200 trail cameras a part of efforts to monitor reintroduced elk in Wisconsin.
- Conducted field work including: elk calf captures, winter deer trapping and monitoring trail cameras.
- Spearheaded a pilot prairie-chicken monitoring project to assess the efficacy of using trail cameras.
- Collaborated with tribal nations in Wisconsin to implement Snapshot Wisconsin trail camera survey grids.
- Presented scientific findings to over 20 public groups across the state.
- Created lesson plans for Snapshot Wisconsin volunteer educators to use in conjunction with trail cameras.
- Monitored Zooniverse talk boards and contribute to a weekly science blog posting.

Crew Leader, Oregon State University, Yreka, CA

September 2017 – December 2017

Primary Investigator: Dr. Sean Matthews

- Trained and supervised a field crew to use track plate and hair snare boxes to investigate fisher responses to wildfire,

translocations and interspecific interactions.

- Collaborated between Oregon Department of Fish and Wildlife, U.S Fish and Wildlife Service, Oregon State University, Michigan California Timber Company and Fruit Growers LLC to deploy 150 non-invasive boxes.
- Developed and implemented a pilot trail camera study to investigate carnivore community structure in response to wildfires.

Multi-Project Research Technician, Wisconsin DNR, Madison, WI

January 2017- September 2017

Primary Investigators: Dr. Nathan Roberts, Dr. Jennifer Stenglein & Dr. Daniel Storm

- Hired as a dual technician for Snapshot Wisconsin, a citizen science trail camera project, and furbearer assistant
- Snapshot Wisconsin:
 - Monitored back-end trail camera software, recruited new volunteers and managed current volunteers.
- Furbearer Research:
 - Conducted gray wolf scat surveying, howl surveying and GPS cluster investigations
 - Aggregated and analyzed historical bobcat and bear age/harvest data
 - Developed a country wide river otter CITES survey and calculated basic statistics on the results
 - Researched historic lynx specimens and sightings across Wisconsin to develop a base for viability in the state
- SW Predator/Prey Project:
 - Assisted with adult white-tailed deer drop net captures, fawn captures and bobcat captures.
 - Submitted a daily, mortality update for Lotek, Vectronic and ATS GPS collars deployed in the study area.

Fisher Monitoring Technician, Oregon State University, Yreka, CA

September 2016 –November 2016

Primary Investigator: Dr. Sean Matthews

- Deployed 100 non-invasive, baited track and hair snare boxes to assess fisher population demographics.
- Identified over 300 tracks of meso-carnivores.
- Volunteered on a sister project in Stirling California, P.I. Dr. Roger Powell, capturing and processing fishers.

Multi-Species Conservation Technician, Colorado Parks and Wildlife

April 2016- September 2016

Primary Investigator: Amy Seglund

- Conducted Gunnison's and white-tailed prairie dog occupancy surveys using ground and aerial flight surveys.
- Administered deltamethrin insecticide and collected flea samples for prairie dog plague management.
- Backpacked 28 miles/day into remote, alpine sites to track and capture white-tailed ptarmigan using telemetry and mark/re-sight techniques.
- Surveyed for burrowing owls using point count and transect surveys.

Furbearer Research Technician, Wisconsin DNR, Rhinelander, WI

November 2015- April 2016

Primary Investigator: Dr. Nathan Roberts

- Utilized ARCMAP to create harvest density maps for furbearers, including black bear, bobcat and fisher. Maps were used at furbearer committee meetings to allocate annual trapping permits.
- Scouted and implemented bobcat foothold and cage trap lines. Assisted with processing captured animals.
- Conducted snow track surveys as part of a state-wide effort to locate and estimate wolf packs.

Wolf Trapping Technician, USGS, Ely

September 2015- November 2015

Primary Investigator: Dr. Shannon Barber-Meyer

- Implemented all aspects of wolf targeted trapping for two-week periods in back country canoe accessible wilderness
 - Tuned, set, baited and established foot hold trap lines.
 - Immobilized and processed captured wolves and non-target species.
- Analyzed Lotek collar data from captured wolves to identify clusters as potential rendezvous or carcass investigations.
- Conducted aerial telemetry flights via sea plane to locate collared white-tailed deer and wolves.

Bear and Fawn Capture Technician, PA Game Commission, State College, PA

May 2015- August 2015

Primary Investigator: Dr. Christopher Rosenberry

- Captured, collared and processed white tailed deer fawns as part of a predator prey study.

- Collected daily VHF telemetry locations on collared fawns and investigated mortalities.
- Participated in black bear trapping and processing, including: dart gunning, blood sampling, tattooing, ear tagging and taking measurements.
- Deployed trail cameras to develop predator occupancy estimates.
- Navigated to established vegetation plots and repaired damaged deer exclusion sites in dense forest vegetation.

Genetics Laboratory Technician, PA Fish & Wildlife CoOp Unit, State College

April 2014- April 2015

Primary Investigator: Dr. Christopher Rosenberry

- Performed DNA extraction, PCR amplification and gel electrophoresis on scat samples for white tailed deer, river otter and snowshoe hares to identify species, individuals and sex.
- Assisted with a stable isotope analysis to investigate the diet of released, ring necked pheasants.

Botany Technician, Pennsylvania State University, State College, PA

April 2014 – March 2015

Primary Investigator: Dr. Eric Burkhardt

- Collected, processed and catalogued herbarium specimens for the Pennsylvania State Herbarium.
- Assisted with Ginseng surveys on public land to identify potential poaching and spread of isolated populations.

TEACHING EXPERIENCE

Master of Science Teaching Assistantship, University of Wisconsin, Madison, WI

September 2021 – December 2021

- Responsible for the grading and management of sixty undergraduate students taking the course Extinction of Species taught by Dr. Karie Cherwin.
- Developed coursework materials including discussion posts, assignments and presentations.

Master of Science Teaching Assistantship, University of Wisconsin, Madison, WI

September 2020 – December 2020

- Same responsibilities as the 2021 position although conducted online.

PEER REVIEWED PUBLICATIONS AND REPORTS

D. Green, E. Anderson, T. Peltier, A. Facka, K. Smith, R. Powell, S. Matthews. Using noninvasive methods to monitor a mesocarnivore. *Journal of Wildlife Management*. In Review

C. Locke, S. Frett, C. Anhalt-Depies, J. Stenglein, S. Cameron, T. Peltier, V. Malleshappa, P. 2019. Managing a large citizen science project to monitor wildlife. *Wildlife Society Bulletin*

T. Peltier, J. Stenglein, C. Pollentier L. Kardash, E. Buege, S. Frett. 2019. 2018 Greater Prairie-Chicken Pilot Trail Camera Pilot Study Report. *Wisconsin Department of Natural Resources Internal Use*.

POSTER PRESENTATIONS

E. Morrison, T. Peltier, D. Green, S. Matthews, R. Powell. Effects of wildfires on the structure of carnivore communities in northern California. Western Section of The Wildlife Society, Fish Camp, California. February 2019

E. Anderson, T. Peltier, D. Green, S. Matthews. Abiotic and biotic factors that affect the detectability of fishers at non-invasive hair snare traps in Northern California. 7th International Martes Symposium. Ashland, Wisconsin. July 2018

ORAL PRESENTATIONS

Peltier, T. Pauli, J.P. Oral Presentation. *Latitudinal variation in the timing of coat color change*. American Society of Mammalogists. Remote. June 14th, 2021.

Peltier, T. Oral Presentation. *A snowshoe hare tale: impacts of climate change and a history of study in Wisconsin*. Society for Conservation, Conservation on Tap. Remote. April 8th, 2021.

Peltier, T. Pauli, J.P. Oral Presentation. *Latitudinal variation in the timing of coat color change*. The Wildlife Society. Remote. February 28th, 2021.

Peltier, T., Pauli, J.P. Oral Presentation. *A phenotypic and genotypic assessment of local adaptation in a winter specialist*. University of Wisconsin Madison and Sandhill State Wildlife Area Partnership. Madison, Wisconsin. November 17th, 2020.

Peltier, T., Pauli, J.P. Oral Presentation. *Effects of climate change on phenology and selection pressures of northern adapted mammals*. University of Wisconsin Madison Genetics Workshop. Madison, Wisconsin. February 28th, 2020.

Peltier, T., Stenglein, J., Pollentier, C., Kardash, L., Buege, E. *Using Camera Traps to Monitor Greater Prairie- Chickens in Central Wisconsin*. Presented at the 2019 Office of Applied Science Conference.

Peltier, T., Stenglein, J., Pollentier, C., Kardash, L., Buege, E. *Using Camera Traps to Monitor Greater Prairie- Chickens in Central Wisconsin*. Presented at the Wisconsin Chapter of The Wildlife Society 2019.

Stenglein J., S. Cameron, S. Frett, T. Peltier, C. Anhalt-Depies, C. Locke, V. Malleshappa. (October 2018) *Wisconsin DNR Podcast session: Snapshot Wisconsin*.

Peltier T., S. Cameron (September 2018) *Snapshot Wisconsin and Elk Reintroduction*. Presented for Rocky Mountain Elk Foundation in Flambeau River State Forest, WI

Frett, S., T. Peltier, S. Cameron (August 2018) *Facebook live event for statewide launch of project*. Presented for over 400,000 followers on Facebook.

Peltier T., S. Cameron, J. Stenglein (April 2018) *Snapshot Wisconsin Scientific Updates*. Presented for Wisconsin Woodland Owners Association in Hayward, WI

Peltier T., S. Cameron C. Anhalt-Depies (April 2018) *Citizen Science as a Tool for Choosing a Career Path*. Presented for Girls in Engineering, Math and Science Conference in Waukesha, WI

Stenglein J., S. Cameron, S. Frett, T. Peltier, C. Anhalt-Depies, C. Locke, V. Malleshappa (March 2018) *Snapshot Wisconsin Scientific Updates*. Presented for the Citizen Based Monitoring Conference in Eau Claire, WI

WORKSHOPS & TRAININGS

1- University of Wisconsin Madison, Anesthesia Machine Guide	Madison, WI	December 2020
2- University of Wisconsin Madison, Working with Wildlife training	Madison, WI	September 2019
3- The Wildlife Society Western Section, Fire Ecology Workshop	Fish Camp, CA	February 2010
4- Wisconsin Department of Natural Resources, Python Workshop	Madison, WI	February 2018
5- Wisconsin Department of Natural Resources, Snow Tracking Workshop	Rhineland, WI	February 2016
6- Wisconsin Department of Natural Resources, Wolf Ecology Workshop	Rhineland, WI	February 2016
7- Pennsylvania State University, Arc Map Basics Workshop	State College, PA	September 2014

COMMUNITY EXPERIENCE

The American Society of Mammalogists	March 2021- present
The Wildlife Society , Wisconsin Chapter and National Member	January 2018 - present

The Wildlife Society, Pennsylvania State University Student Chapter

September 2012- September 2014

- Elected student council representative for the club
- Reported to university student council meetings on behalf of TWS and participated in the leadership board for the chapter

Environmental Education Counselor, Outdoor School, Shaver's Creek, PA

October 2014

- Volunteered as a camp counselor for 5th graders during a weeklong environmental camp that provided children with a positive outdoor educational experience

International Friendship Program Volunteer, Pennsylvania State University

Fall 2013- Fall 2014

- Partnered with international Pennsylvania State University students to facilitate an easier adjustment to life in the United States by organizing social events and individually meeting with students

Student Volunteer, Children and Youth Empowerment Center of Thunguma, Kenya

Summer 2013

- Spent a summer in rural, central Kenya and assisted with the start-up of an eco-tourism center and peer mentoring program
- Completed credit fulfilling coursework in Swahili, agriculture and community/ ecosystem development