

# Lane K. Jeakle

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## Education

**Bachelor of Biology from Northern Michigan University, Marquette, MI.**

Overall GPA: 3.39/4.0

August 2016-May 2020

Major: General Biology

Minor: Earth Science

## Undergraduate Research

**Conservation Microbial Ecology of Mink**

August 2018-August 2021

Professor: *Dr. Diana Lafferty*, NMU.

Assessed the effects of time and temperature on fecal microbial community abundance post defecation, in American Mink, and the accuracy of non-invasive fecal sampling. Authored several posters that were presented at the 2020 Midwest Fisheries & Wildlife Conference and the NMU Celebration of Student Scholarship. Co-author on paper published by *The Journal of Mammalogy*.

**Whetstone Brook Stream Analysis**

Sept. 2019-May 2020

Professor: *Dr. Brandon Gerig*, NMU.

Aided development of a long-term sampling framework to evaluate changes in fish presence in an urban stream ecosystem.

**Yooper Wildlife Watch**

August-Sept. 2019

Professor: *Dr. Diana Lafferty*, NMU.

Assisted in deploying/maintaining trail cameras at randomly selected locations to study the spatial and temporal responses of human activities. Helped with image classification.

**Big Garlic River Migrating Salmonids**

August 2018-May 2019

Professor: *Dr. Brandon Gerig*, NMU.

Conducted weekly 24-hour Fyke net set to determine the use of the river by migrating salmon. Co-authored a poster that was presented at the 2019 Michigan Fish and Wildlife Conference and the NMU Celebration of Student Scholarship.

**American Marten Microbiome Initiative**

January-March 2019

Professor: *Dr. Diana Lafferty*, NMU.

Conducted live marten trapping (box traps) to obtain scat samples. Maintained traps and trap line daily. Co-authored poster that was presented at the NMU Celebration of Student Scholarship (3<sup>rd</sup> Place).

**Snowshoe Hare Behavioral Video Analysis**

January-May 2018

Professor: *Dr. Diana Lafferty*, NMU. *Paul Sims*, PhD candidate at McGill University.

Coded videos of snowshoe hare and observed different behavior and personality traits. Created and co-authored poster that was presented at the NMU Celebration of Student Scholarship.

## Publications

Lafferty DJR, Gillman SJ, **Jeakle LK**, Roell BJ, McKenney EA (2021) Mink (*Neovision vision*) fecal microbiomes are influenced by sex, temperature and time post-defecation. *The Journal of Mammalogy*, 2022;, gyab140, <https://doi.org/10.1093/jmammal/gyab140>.

## **Work Experience**

### **Wildlife Ecology Institute – Field Ecologist (>40hr/wk) *Columbus, Indiana***

Aug. 2022-Present

#### **Gray Fox populations in South-Central Indiana:**

- Communicate daily with public, landowners, state/federal land managers while conducting fieldwork on private, state and federal lands.
- Trapping efforts (collarum devices and cage traps).
- Capture of foxes- deploy collar and ear tags, take both biological data (tissue, blood, fecal, parasites) and numeric data (measurements, weight, condition). Biological sample preparation after capture.
- Tracking foxes via telemetry.
- Management of large camera network.
- Collar programming and maintenance. Use of location data and programs (R studio and Maps) to display data.
- Mortality investigations and necropsies (determine potential cause of death, collect tissue samples).
- Presentations at National Wildlife Refuges.

#### **RMEF Data Project:**

- Detailed review of multiple states population estimates, tag system, and harvest.
- Communication with state biologists.

### **New Mexico Department of Game and Fish – Black Bear Technician (40hr/wk) *Raton, New Mexico*** June-Aug. 2022

- Set hair corrals to collect black bear hair for population study.
- Deployed cameras at sites to capture target species.
- Corral sites were exclusively on private land requiring daily land owner interaction.
- Operated 4x4 trucks offroad in inclement weather.

### **Michigan DNR – Non-Career Wildlife Assistant (40hr/wk) *Gaylord, Michigan.***

Oct. 2021-Jan. 2022

- Deer check station- Collected hunter harvest information, biological data from animal, submitted specimens for testing (TB & CWD).
- Bear check station- Collected hunter harvest information, biological samples from animal (tooth, hair & tissue).
- Furbearer check station- Collected hunter harvest information, tagged furs.
- Installed silt fencing and cleared trails.

### **The University of Montana (Supervised by US Fish and Wildlife) – Lead Grizzly Bear Hair Snag Technician (40hr/wk) *Sylvanite, Montana.*** May-Sept. 2021

- Technician in charge of grizzly bear hair collection efforts for the Cabinet and Yaak mountain ranges and supervision of one other technician.
- Planning daily routes, without any supervision (taking weather, fire hazards, and importance in consideration).
- Hiking/mountain biking (up to 20 miles) daily in remote mountainous terrain and inclement weather to check, maintain, and establish bear rub sites.
- Set and maintained barbed wire corral sites (use of lure and cameras) in remote areas.
- Assisted with grizzly bear capture (measurements, data, collar, ear tags, etc.) and relocation.
- Hair sample identification, organization, and storage.
- Data input using Microsoft Access.
- Trail camera analysis using Timelapse.
- Use of radio telemetry to located dropped collars.
- Extensive use of GPS units, in-Reach devices, Gaia GPS, and GPS programming applications.
- Use of 4x4 trucks on dirt roads/switchbacks. Truck maintenance and upkeep.
- Use of chainsaws to clear debris from roads.
- Wilderness First Aid training through US Fish and Wildlife.

### **Southern Illinois University – Lead Capture Predator Tech. (37.5hr/wk) *Sullivan, Illinois.***

Nov. 2020-April 2021

- Technician in charge of captures, animal safety, and all immobilizations (jab stick or hand inject).
- In charge of drug storage and drug logs (for predator and deer crew).
- Maintenance of trapline- cage traps (bobcats) and foothold traps (coyotes).
- Daily trap checks, handling “by-catch” wildlife (racoons, opossums & skunks), resetting/re-luring/re-baiting, fixing traps, boiling footholds, making wax dirt.

- Animals processed while monitoring vitals. Fitted animal with GPS collar, took a tissue biopsy, placed ear tag, recorded other data (weight, sex, condition, etc.). Injuries treated when needed.
- Assisted with deer clover trapping, handling, and collaring.
- Mortality investigations and collar retrieval using telemetry.
- IACUC approved euthanasia.
- Extensive trail camera use and deployment.
- Landowner/public interactions to obtain information, collars, permission, and maintain positive relationships.

**Pennsylvania Game Commission – Elk Biologist Aide (>40hr/wk) Karthaus, Pennsylvania.** May-August 2020

- Daily use of vehicle and handheld telemetry in a geographically hilly setting on private and public land.
- Live capture and handling of Rocky Mountain Elk neonates- Collected data; DNA punch, weight, length, physical features, placed ear tags, collared animals. Some adult capture and handling.
- Mortality investigations- Examined field sites where collared animals died to help determine cause of death.
- Use of ArcGIS and GPS Plus X to check on status of study animals and obtain locations.
- Black bear trapping- Used barrel traps with bait to capture bears. Immobilized bears (dart pistol) and collected data (physical and numerical), placed ear tag, collared target bears, treated for mange if necessary.
- Vegetation sampling and identification.
- Camera checking and deployment.

**Oregon Department of Fish and Wildlife – Wildlife Technician (40hr/wk) Baker City, Oregon.** July-August 2019

- Brood count surveys- Marked and counted game bird populations.
- West Nile Mosquito trapping.
- Mountain Goat capture, collar and relocation- Live animal capture and handling. Assisted in data collection; blood, fecal, nasal. Administered vitamins.
- Assisted in euthanasia.

**Oregon Department of Fish and Wildlife – Intern/Technical Worker (40hr/wk) Baker City, Oregon.** May-July 2019

- Solo workdays in remote areas where service was limited or non-existent on private and public land.
- Wolf trapping- Use of leg hold traps, lure, camera trapping. Tracked animals using prints. Successfully captured and released a coyote and black bear.
- Extensive camera trapping experience.
- Wolf depredation investigations with public interaction.
- Mountain Goat backcountry camping survey.
- Armed, deployed and collected bat acoustic detectors.
- Elk salt, Greater Sage Grouse survey input, remote horse riding.
- Extensive use of trucks, trailers, ATV's, and Side by Sides in off road conditions and mountains.
- Use of radio telemetry to locate collars and track animals.
- Assisted in predator check-ins.

**Idaho Department of Fish and Game – Fisheries Biological Aide (40hr/wk) Salmon, Idaho.** May-August 2018

- Surveyed endangered species- Chinook Salmon and Bull Trout along with other native species.
- Worked on Private land- Day to day interactions with landowners.
- Electroshocking and Snorkeling surveys- River rescue, electroshocking training, fish identification training.
- Fish Salvages and screen cleaning- Collected fish from screens that were being cleaned and drained.
- Lake Stocking and Invasive Plant Removal.
- Habitat Surveys- Conducted surveys to identify stream conditions and how they affect fish, used flow tracker.
- Tent camped for most of the summer.

**Michigan DNR –State Worker (40hr/wk) Otsego Lake State Park Gaylord, Michigan.** May-August 2016 & 2017

- Park Security- Proper radio communication knowledge.
- Park Maintenance- Lawn moving, weed whacking, trash pickup, painting, basic repairs.
- Camper Assistance, crowd control, other tasks as needed.

## **Technical Reports**

Dead River Mitigation Funds Project Report January 2019

## **Presentations**

Environmental Exposure Effects Succession of Microbial Consortia in a Model Carnivore January 2020  
*Midwest Fisheries and Wildlife Conference 2020*

Succession of Microbial Consortia in the Feces of Mink (*Neovision vision*) April 2019  
*Celebration of Student Scholarship NMU*

Influence of Habitat Structure on the Diet and Gut Microbiome of American Marten April 2019  
*Celebration of Student Scholarship NMU (3<sup>rd</sup> Place)*

The Conservation Efforts of Chronic Wasting Disease April 2019  
*Celebration of Student Scholarship NMU*

Characterization of Migratory Salmonid Runs in the Big Garlic River, Marquette County, Michigan March/April 2019  
*Michigan Fish and Wildlife Conference 2019 & Celebration of Student Scholarship NMU*

Snowshoe hare personality may facilitate adaptive responses to environmental change April 2018  
*Celebration of Student Scholarship NMU*

## **Professional Development**

**International Conference on Bear Research and Management 2021**

**Eastern Elk Conference 2020**

**Midwest Fisheries and Wildlife Conference 2020-** Presented poster.

**Michigan Fish and Wildlife Conference 2019-** Presented poster.

**Midwest Fisheries and Wildlife Conference 2018-** Attended the professional development workshop.

**Small Mammal Trapping Workshop-** Learned how to place a variety of traps, prepare specimens for NMU museum, located and identified ecto- and endo-parasites.

**IACUC-** Completed Working with the IACUC, Animal Biosafety, Basic Introduction to Biosafety, Reducing Pain and Distress in Laboratory Mice and Rats, Wildlife Research, and Working with Fish.

**Chemical immobilization workshop-** Learned chemicals, importance of dosage for weight of the animal.

## **Professional Affiliations**

Wildlife Ecology and Conservation Science Lab (NMU) 2018-2022

The Gerig Fish Lab (NMU) 2018-2020

The Wildlife Society Member 2018-2020

Northern Michigan Fisheries and Wildlife Society Member 2016-2020

Treasurer of the Northern Michigan University Fisheries and Wildlife Association 2018-2019

## **Relevant Volunteer Experience**

**Cherry Creek Elementary** January 2019- May 2019

- Aided in classroom project to raise salmon fry.
- Performed fish care procedures.
- Taught young students about salmon and their life history.

**Michigan DNR** November 2016, 2017, 2018

- Assisted *Caleb Eckloff*, MI. DNR Wildlife Technician.
- Aged deer according to tooth wear.
- Collected information from hunters.
- Entered information into the DNR data system.
- Prepared samples to be sent to Chronic Wasting Disease testing labs.

**Idaho Department of Fish and Game** July 2018- August 2018

- Assisted *Dennis Newman*, Biologist.
- Assisted *Jessie Shallow*, with cutting fence posts for the Loon Creek wilderness
- Drove a designated path in the Lemhi Valley looking for pronghorn antelope.
- Recorded gender, quantity, distance, and behavior.

- Cut poles into 10 foot sections, with a chainsaw, so fit into a plane to be flown into Loon Creek.

**Michigan DNR**

March 2018

- Assisted *Caleb Eckloff*, MI. DNR Wildlife Technician, with wolf surveys.
- Drove around main and back roads looking for wolf tracks and signs of wolf packs.
- Hiked around areas of state land looking for tracks to determine pack size and boundaries.

**Michigan DNR**

February 2018

- Assisted *Caleb Eckloff*, MI. DNR Wildlife Technician, with deer surveys.
- Drove around main and back roads looking for heavily used deer trails to locate winter yarding for deer.

**Biology Department, NMU**

November 2017

- Assisted *Benjamin Bejcek*, a graduate student, with PIT tagging brook trout for his research.
- Netted stunned fish, conducted identification and measurements, observed pit tag placement.

**Biology Department, NMU**

October 2016 & 2017

- Assisted *Dr. Jill Leonard* with electroshocking at Pictured Rocks National Lakeshore.
- Netted stunned fish, measured and identified them, hiked into backcountry with heavy equipment.

**Certificates and Skills**

Valid driver's license

First Aid Certified

Michigan Boater's Safety

Michigan Snowmobile Safety

Oregon ATV

Abundance of trailer experience

Off-road and 4x4 vehicle experience

Small watercraft, kayak, and canoe experience

Radio telemetry experience

Basic GPS, maps, and compass knowledge

Experience using power tools

Basic survival skills and animal tracking

Remote camping/backpacking experience

Mammal identification

Live trapping and handling experience

Strong public relation skills

PIT tagging experience

Experience electroshocking

General fish identification

Kick netting experience

Professional radio experience

R-coding experience

## **References**

**Dr. Diana J.R. Lafferty**

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