

Maxwell D. Majinska

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Education

Michigan State University
M.S. – Fisheries and Wildlife Management
Department of Fisheries and Wildlife

Anticipated Graduation:
Fall of 2024

Northern Michigan University, Marquette, Michigan
Bachelor of Science
Fisheries and Wildlife Management: Concentration: Fisheries
GPA: 3.46

Graduated May, 2020

Work Experience

Hatchery Specialist for Michigan State University and the MI DNR Black River Sturgeon Rearing Facility

Apr. – Present 2022
40 – 70 hours per week

Supervised by Doug Larson and Dr. Kim Scribner

- Responsible for day-to-day hatchery operations rearing a threatened species for research and production stocking
- Building and maintaining research and production flow through aquaculture systems at a streamside facility
- Assisting in leading and carrying out various long term and graduate fieldwork and research projects including adult spawning population assessments, larval drift, juvenile surveys, fertilization success and sperm motility, and behavioral learning

Fisheries Bioaide for the Idaho Department of Fish and Game

Nov. 2021 – March 2022

Supervised by Aaron Black

- Worked in team to assess Burbot stocks in the Kootenai River system within waters in Canada and the United States of America
- Recorded fish health metrics, genetic samples, and implanted floy tags and pit tags
- Assisted in implementing a new self-reporting angler creel survey to better understand angling efforts
- Collected eDNA to assess spawning tributaries

40 – 50 hours per week

Fisheries Bioaide for the Idaho Department of Fish and Game

Aug. – Oct. 2021
40-50 hours

Supervised by Wes Ewing and T.J. Ross

- Working in a team to monitor White Sturgeon in the Kootenai River
- Assisted surgeries implanting acoustic tags in juvenile and adult White Sturgeon
- Conducted data downloads from acoustic receivers
- Sampled fish through night-time boat electrofishing surveys, gill netting, angling, set lines, and hoops nets

Hatchery Specialist for Michigan State University and the MI DNR Black River Sturgeon Rearing Facility

Apr. – Aug. 2021
40-50 hours per week

Supervised by Doug Larson and Dr. Kim Scribner

- Responsible for day-to-day hatchery operations rearing a threatened species for stocking
- Built and maintained research and production flow through aquaculture systems at a streamside facility
- Assisted in leading technicians in the field and in the hatchery throughout multiple long term and graduate research projects

Fisheries Research Technician for Montana State University and the Montana Cooperative Fisheries Research Unit

Sept. – Nov. 2020
40-50 hours per week

Supervised by Colter Brown

- Worked in team to actively track Mountain Whitefish using a raft and radio telemetry
- Assessed spawning through the use of egg mats, kick-netting, and angling Assisted Wyoming Game & Fish with nighttime raft electrofishing survey

Field Technician for Michigan State University and the MI DNR Black River Sturgeon Rearing Facility

Apr. – Aug.
2019 & 2020
40 hours per week

Supervised by Doug Larson and Dr. Kim Scribner

- Worked in team to carry out a multitude of long-term research projects with adult and larval Lake Sturgeon: larval drift, sperm quality, adult and juvenile surveys, aquatic insect ID, and larval rearing
- Assisted multiple graduate students with projects focused on larval predation, egg fertilization & relatedness, novel environments, and larval preferences.
- Worked in team to collect eDNA for DNR management use

Crew Chief for Northern Michigan University Aquatics Crew

Feb. 2016 – July 2017
4-8 hours per week

Supervised by Dr. Jill B.K. Leonard

- Responsible for holding bi-weekly crew meetings, managing the work schedule, and monitoring supply levels
- Worked as a team responsible for maintaining multiple static and recirculating aquaculture systems along with rearing a multitude of freshwater and saltwater fishes for research and display
- Maintained care logs, monitored water quality, conducted aquatic organism husbandry, and maintained equipment

Cutthroat Trout Intern for the Utah Division of Wildlife Resources

May – Aug. 2018
50-60 hours per week

Supervised by Bryan Engelbert

- Worked in team to conduct gillnet and pass-depletion surveys to collect fish for fish health certification and abundance
- Deployed fyke nets and utilized barge and backpack shocking for egg takes at various sites.
- Terrain was remote, oftentimes required hiking, horseback riding, or ATV's

Volunteer Experience

Senior Undergraduate Researcher with the NMU Fish Ecology Lab: Fire Foam Toxicology and Behavior with Brook Trout Feb. 2018 – May

- Designed and conducted a research project to understand the effects of wildland firefighting chemicals on a regionally important species within a fire adapted ecosystem
- Assessed the impacts of size/age and temperature on the lethality of Brook Trout with SILV-EX Plus Fire Control Concentrate
- Assessed the behavior of fish with regards to avoidance at varying chemical concentrations

Student Volunteer for Master's Students: Spawning Adult Burbot from Multiple Populations Jan. – May 2018 & 2020

- Assisted two graduate students in the capture of adult Burbot from riverine and lake populations using nighttime ice fishing efforts in Lake Superior and hoop nets in rivers
- Successfully spawned and hatched Great Lakes Burbot. Collected fin clips for future DNA analysis

Student Volunteer with Northern Michigan University and the National Park Service July 2016 & 2017

- Worked in teams to conduct electrofishing surveys
- Utilized fyke nets and minnow traps to sample Little Beaver Lake

Undergraduate Researcher with the NMU Fish Ecology Lab: Brook Trout Metabolic Rate vs Time of Day Feb. – Mar. 2017

- Worked in team of undergraduates to design and conduct an experiment to justify protocols for the use of respirometry in the field through lab experiments
- Tagged individual fish with PIT tags and recorded metabolic rates using different holding protocols and time of day

Field Techniques

- Active and passive fish sampling
 - Seines, fyke nets, hoop nets, and gill nets
 - Electrofishing: boat, barge, raft, and backpack
 - Passive arrays & active tracking
- Boat and ATV operation
 - Trailering & towing
- Freediving
- Deployment of rQPOD and ADCP
- Riverine assessments
 - Rapid bio assessments
 - YSI and discharge
- Field and hatchery spawning
- Aquatic pesticide application
- Field first aid and rescue swimming
- Compass and handheld GPS
- Most hand and power tools

Laboratory Techniques

- Microscope skills
 - Aquatic insect ID
 - Sperm motility
- Fish surgeries
 - Internal PIT and RFID tags
 - Acoustic Tags
 - Floy and Loop Tags
- Fish culture bacterial and fungal treatments
- Recirculating, static, and flow through aquaculture system maintenance and fish care
- Preparation of genetic samples

Software Experience

- ARC GIS Pro
- Microsoft Office
- R Studio
- Image J

Presentations

Majinska, M. and J. Leonard. 2020. Determination of SILV-EX plus class A fire control concentrate LC50 in brook trout (*Salvelinus fontinalis*) at varying age classes and temperatures. Poster presentation. 80th Midwest Fish and Wildlife Conference, January 2020, Springfield, IL.

Majinska, M. and J. Leonard. 2019. Determination of SILV-EX plus class A fire control concentrate LC50 at varying temperatures on 1-year old brook trout (*Salvelinus fontinalis*). Oral presentation. NMU Celebration of Student Scholarship, April 2019, Marquette MI.

Zimmerman, G., Preul, T., **Majinska, M.**, and J. Bowman. 2017. Modeling brook trout (*Salvelinus fontinalis*) metabolic rate vs time of day. Oral presentation. NMU Celebration of Student Scholarship, April 2017, Marquette, MI.

Successful Grants

- “Funding for the 80th Midwest Fisheries and Wildlife Conference for the NMU Fisheries and Wildlife Association” Award: \$5,000
- “The Effects of Fire Suppressants on Juvenile Brook Trout (*Salvelinus fontinalis*)” Award: \$500

Conferences

- 2020 Midwest Fish and Wildlife Conference
 - Leadership for Early Career Professionals
- 2019 Michigan Fish and Wildlife Conference
- 2018 Midwest Fish and Wildlife Conference
 - Beginning Your Professional Career Workshop

Relevant Course Work

- Ichthyology
- Fisheries and Wildlife Seminar
- Limnology
- Fisheries Management
- Aquatic Insect Ecology
- Biostatistics
- Public Address
- Tribal Law and Government
- Indigenous Environmental Movements
- Conservation Biology
- Introduction to GIS
- Wildlife Management
- Advanced Research: Fish Toxicology
- Ecology Theory and Methods

Certifications

- Valid Michigan Driver's License
- Michigan Boaters Safety Certificate
- IAT Basic Aviation Safety, General Awareness Security Training, Mishap Review
- Heart Saver First Aid CPR AED Certification (Expires 03/2024)

Service

- The American Fisheries Society
 - Member of Student Sub-Committee for the 2023 national meeting
- Fred Waara Chapter of Trout Unlimited (2020-2021)
- The Wildlife Society (2017-2020)
- Northern Michigan University Fisheries and Wildlife Association general member (2016-2017), treasurer (2017-2018), vice president (2018-2019), and president (2019-2020)
 - Coordinated events, meetings, speakers, and public outreach for the club with the goal to advance students' knowledge and skills in the field while maintaining an inviting place for like-minded individuals
- Northern Michigan University Fish Ecology Lab (2016-2020)
- Boy Scouts of America, Troop 102 – Eagle Scout

GRE Scores

- Verbal Reasoning: 154
- Quantitative Reasoning: 156
- Analytical Writing: 4.0

References

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|---|---|
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