

Taylor N. Preul-Stimetz
P.h.D. Student || Center for Limnology, UW- Madison
Northern Lakes Fisheries Research Scientist || WI DNR
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EDUCATION

P.h.D. Freshwater and Marine Science | University of Wisconsin-Madison 2030 (in progress)
M.S. Fisheries Management | Montana State University 2022
B.S. Biology-Ecology | Northern Michigan University 2017
Natural Resources General Credits | Nicolet Area Technical College 2013-2014
Rotary Youth Exchange Student | Kouvolan yhteislyseo lukio- Finland 2011-2012

PROFESSIONAL EXPERIENCE

Northern Lakes Fisheries Research Scientist <i>Escanaba Lake Research Station, WI Department of Natural Resources</i>	2025-present
Research Analyst and Scientist <i>Escanaba Lake Research Station, WI Department of Natural Resources</i>	2024-2025
Fish Biologist- Advanced <i>Escanaba Lake Research Station, WI Department of Natural Resources</i>	2023-2024
Fish Biologist <i>Escanaba Lake Research Station, WI Department of Natural Resources</i>	2022-2023
Metalsmithing Fabrication & Store Manager <i>Hattie Rex, Bozeman, MT</i>	2020-2022
Graduate Research Assistant <i>Montana State University, Bozeman, MT</i>	2020-2022
Graduate Teaching Assistant; Writing Center <i>Montana State University, Bozeman, MT</i>	2020-2021
Graduate Teaching Assistant; Biology <i>Montana State University, Bozeman, MT</i>	2018-2020
Laboratory/Research Manager <i>Montana State University, Bozeman, MT</i>	2017-2018
Fisheries Technician-Adv <i>National Park Service, Yellowstone National Park, WY</i>	2017
Native Trout Conservation Intern <i>National Park Service, Yellowstone National Park, WY</i>	2016
Water Quality and AIS Intern <i>National Park Service, Sleeping Bear Dunes National Lakeshore, MI</i>	2015
Conservation Intern (Crew Leader) <i>Marquette Conservation District, Marquette, MI</i>	2015
Watercraft Inspector- Clean Boats Clean Waters <i>Metonga Lake Association, Crandon WI</i>	2014
Fisheries Technician <i>Sokaogon Chippewa Community, Mole Lake, WI</i>	2006-present

RESEARCH EXPERIENCE

M.Sc. Thesis and Research

2018-2022

Relating the reproductive performance of westslope cutthroat trout to trait specialization to screen for artificial selection in a conservation hatchery

Testing the application of the Distell Fatmeter to measure whole-body energy of juvenile *Oncorhynchus clarkii lewisi*

The validation of blood cortisol and metabolites to assess the primary and secondary stress response of rainbow trout (*Oncorhynchus mykiss*)

The validation of non-lethal aging methods for use in juvenile *Oncorhynchus clarkii lewisi*

B.Sc. Research

2016-2017

Validation of brook trout (*Salvelinus fontinalis*) metabolic rate vs. time of day

Predator avoidance of bluegill (*Lepomis macrochirus*) at elevated temperatures

PUBLICATIONS

Preul-Stimetz, T.N., Renik, K., Shaw, S.L. Sass, G.G. 2026. Influence of the cessation of harvest on a formerly exploited Walleye population. *Transactions of the American Fisheries Society*. 10.1093/tafafs/vnag020

Preul-Stimetz, T.N., Shaw, S.L. Sass, G.G. 2026. Influence of 20-years of exclusive catch-and-release angling on Smallmouth Bass population dynamics and angler behavior in a north-temperate lake. *Proceedings of the 2025 Black Bass Symposium- North American Journal of Fisheries Management*. In review.

Shaw, S.L., **Preul-Stimetz, T.N.,** Sass, G.G. 2026. Vulnerability to angling and survival of Smallmouth Bass in a northern Wisconsin lake. *Proceedings of the 2025 Black Bass Symposium- North American Journal of Fisheries Management*. [10.1093/najfmt/vqag038](https://doi.org/10.1093/najfmt/vqag038)

Sass, G.G., Shaw, S.L., **Preul-Stimetz, T.N.,** Smith, Q.C., Oele, D., Roberts, C., Toshner, S. 2026. Status and trends of black bass fisheries in Wisconsin: regulation (in)effectiveness?. *Proceedings of the 2025 Black Bass Symposium- North American Journal of Fisheries Management*. 10.1093/najfmt/vqag034

Stoll, W., Mrnak, J.T., **Preul-Stimetz, T.N.,** Shaw, S.L. Sass, G.G. 2026. Coarse woody habitat minimally influences isotopic signatures of a north-temperate lake fish community. *Hydrobiologia*, pp.1-18.

Vanderbloemen, S., Mitro, M., Breaker, B., Hoffman, N., **Preul-Stimetz, T.N.,** Sass, G.G. 2026 Comparative Assessment of Calcified Structures for Age Estimation in Brook and Brown Trout. *North American Journal of Fisheries Management*. In review.

Preul-Stimetz, T.N., Smith, C.D., Shaw, S.L., Feiner, Z.S., Sass, G.G. and Reed, J.R. 2025 Preservation in formalin variably affects egg size parameters of Walleye. *The Journal of Wildlife Management*, p.e70095.

Preul-Stimetz, T.N., Shaw, S.L., Feiner, Z.S. and Sass, G.G., 2024. Evaluating the potential importance of individual identity, maternal traits, and environment as predictors of egg characteristics in walleye *Sander vitreus*. *Fisheries Research*, 278, p.107107.

Preul-Stimetz, T.N. Shaw, S.L. Sass, G.G. 2024. Whole-lake coarse woody habitat addition facilitates ecosystem regime restructuring in an oligotrophic lake. *Lake and Reservoir Management*. 1-18. <https://doi.org/10.1080/10402381.2024.2401792>

IN PREPARATION

- Thurin, K.N., **Preul-Stimetz, T.N.**, Shaw, S.L., Sass, G.G. Evaluating the efficacy of Hester Dendy traps deployed on coarse woody habitat additions. In preparation.
- Preul-Stimetz, T.N.** Shaw, S.L. Hein, C., Feiner, Z.F., Sass, G.G. Assessing interactions among fish and aquatic macrophyte communities using a suite of sampling gears. In preparation.
- Renik, K.A., Shaw, S.L., **Preul-Stimetz, T.N.**, Sass, G.G. Comparison of methods for calculating exploitation in walleye populations of Northern Wisconsin. *In preparation.*
- Von Bargaen, D., **Preul-Stimetz, T.N.**, Wilkinson, M., Feiner, Z.F., Jensen, O., Sass, G.G. Influences of angler technology on fish catchability and “harvestability” in Escanaba Lake, Wisconsin over time. *In preparation.*
- Eberhard, C.E., **Preul-Stimetz, T.N.**, Shaw, S.L., Feiner, Z., Sass, G.G. Abiotic and biotic factors driving year class strength of Yellow Perch (*Perca flavescens*). *In preparation.*
- Thurin, K., Shaw, S.L., **Preul-Stimetz, T.N.**, Sass, G.G. Influence of water clarity on growth rates of age-0 Walleye. *In preparation.*

PRESENTATIONS (* indicates a best presentation award)

- Preul-Stimetz, T.N.** Setting the stage for ecosystem rehabilitation in Franklin Lake. (Ogaa Symposium, 2026)
- *Preul-Stimetz, T.N.**, Matzke, G., Preul, M.A., Carleen, J., Feiner, Z., Sass, G.G., Vander Zanden, J. Setting the Stage for Fish Community Rehabilitation: A Proposed Study on Franklin and Butternut Lakes (WI AFS, 2026)
- Eberhard, C, **Preul-Stimetz, T.N.**, Shaw, S.L., Sass, G.G. Drivers of Yellow Perch (*Perca flavescens*) Cohort Strength in Escanaba Lake, Wisconsin (WI AFS 2026)
- Von Bargaen, D., **Preul-Stimetz, T.N.**, Wilkinson, M., Feiner, Z.F., Jensen, O., Sass, G.G. Do Advances in Fishing Technology Influence Fish Catchability. (WI AFS 2026)
- Sass, G.G., Shaw, S.L., **Preul-Stimetz, T.N.** Status and trends of black bass fisheries in Wisconsin: regulation (in)effectiveness? (National AFS 2025)
- Preul-Stimetz, T.N.**, Renik, K.M., Shaw, S.L., Sass, G.G. Identifying critical periods of recovery in a highly exploited walleye population (WI AFS 2025)
- Stoll, W., Mrnak, J.T., **Preul-Stimetz, T.N.**, Shaw, S.L., Sass, G.G. Coarse woody habitat minimally influences isotopic signatures of a north-temperate lake fish community (WI AFS 2025)
- Eberhard, C, **Preul-Stimetz, T.N.**, Feiner, Z.F., Shaw, S.L. Ovulation status does not affect the egg size of walleye (*Sander vitreus*) (WI AFS 2025)
- Von Bargaen, D., **Preul-Stimetz, T.N.**, Wilkinson, M., Feiner, Z.F., Jensen, O., Sass, G.G. Has improved angler technology influenced fish catchability and “harvestability” in Escanaba Lake, Wisconsin over time? (WI AFS 2025)
- Preul-Stimetz, T.N.** Shaw, S.L. Feiner, Z.S. Sass, G.G. The relative importance of individual identity, maternal traits, and environment as predictors of egg characteristics in walleye (*Sander vitreus*) (Midwest Fish and Wildlife, 2024)
- Preul-Stimetz, T.N.** Shaw, S.L. Feiner, Z.S. Sass, G.G. Individual identity outweighs body size, condition, and environment, in determining egg size of walleye (*Sander vitreus*) (WI AFS, 2025)
- Preul-Stimetz, T.N.** The effects of whole-lake coarse woody habitat addition on aquatic ecosystems (Science in the Northwoods, 2024)

Preul-Stimetz, T.N., Shaw, S.L., Feiner, Z.S., Sass., G.G. Investigating relationships among walleye (*Sander vitreus*) egg quality, maternal traits, and environmental factors. (WI AFS 2023)

The Fisheries Podcast: Accounting for Cutthroat Trout Physiology in a Conservation Hatchery (2022)

Preul, T, N., Bourret, S, L., Verhille, C, E., Validation of the use of behavioral assessments in identifying wild origin westslope cutthroat trout vulnerable to artificial selection at Sekokini Springs Hatchery, MT. (MT AFS, 2021)

Noble, B., **Preul, T.N.,** Verhille, C., Investigating metabolomics as a means of quantifying the primary stress response in Rainbow Trout (*Oncorhynchus mykiss*) (MT AFS, 2020)

Preul, T, N., Fish personalities and the pace of life (Honors Lecture, 2020)

Preul, T, N., Bourret, S, L., Verhille, C, E., Historical Analysis Reveals Limitations of Traditional Performance Metrics in Assessing *Oncorhynchus clarkii lewisi*". (MT AFS, 2019)

Today's Voices of Conservation Science Podcast: Conservation Propagation of Westslope Cutthroat Trout (2019)

Preul, T, N. Assessing inter-individual variation in phenotypic profile of wild-captured westslope cutthroat trout at Sekokini Springs Hatchery (Whiteboard Talk, Ecology Department Seminar, 2019)

Preul, T, N. Ladies choice: an alternative theory of evolution (6- Minutes of Science, Ecology Department Seminar, 2019)

Lake Trout Kill Elk: Yellowstone Fisheries Public Education Sessions (2017)

Preul, T.N., Zimmerman, G., Majinska, Maxwell. Validation of brook trout metabolic rate at different times of day (2017)

AWARDS & GRANTS

Best Poster Award	2026
<i>Wisconsin Chapter of the American Fisheries Society</i>	
Employee of the Year	2024
<i>Office of Applied Science; WI DNR</i>	
Midwest Fish and Wildlife Travel Grant (650\$)	2024
<i>North Central Division American Fisheries Society</i>	
Diversity and Inclusion Mentorship Award (500\$)	2021-2022
<i>Western Division American Fisheries Society; D&I Committee</i>	
SITKA Ecosystem Grant (1000\$)	2021
<i>SITKA Gear Co.</i>	
Jim Belsey Graduate Student Award (1000\$)	2019
<i>Montana State University Bozeman, MT</i>	

FELLOWSHIPS

STEM Storytellers; National Science Foundation	2019- 2020
<i>Montana State University Bozeman, MT</i>	
Northwoods Environmental Scholar Program	2012-2013
<i>U.S. Forest Service Rhinelander, WI</i>	

SERVICE & SOCIETIES

Member; National Ski Patrol	2023-pres.
Trail Crew and First Responder	2022-pres.
<i>Lakeland Area Mountain Bike Organization Woodruff, WI</i>	
Member; North American Lake Management Society	2024-pres.
Mentor; Hutton Junior Scholars Program	2019-pres.
<i>American Fisheries Society</i>	
Member; Diversity and Inclusion Committee	2020-2022
<i>Western Division of AFS</i>	
Member; Women in Science and Engineering	2019-2022
<i>Montana State University, Bozeman MT</i>	
Member; American Association for the Advancement of Science	
Sub-Unit President, AFS	2020-2021
<i>Montana State University Bozeman, MT</i>	
Vice President, Three Minute Thesis Competition	2019-2020
<i>Montana State University Bozeman, MT</i>	
Sub-Unit Communication Director, AFS	2019-2020
<i>Montana State University Bozeman, MT</i>	
Director of External Affairs; Associated Students of NMU	2015- 2017
<i>Northern Michigan University Marquette, MI</i>	
Member; American Fisheries Society (National)	2016-pres.

MENTORING

UW-Madison Summer Research Intern/Fellow Supervisor | 2026-pres.

Hannah Lietz (26')

DNR Technician Research Supervisor | 2022-pres.

Evan Weister (23'), Elise Bass (24'), Al Jorgenson (23'), Matthew Bartz (23-24'), Christina Eberhard (24'-26'), Max Monfort (24'), Dylan Von Bargaen (24'-26'), Kelsey Thurin (25'-pres.), Kyle Kamm (25'), Dylan Wendricks (25'), Willem Stoll (24-25')

Graduate Research Mentor | 2018-2022

Benjamin Noble (19-21'), Joshua Heishmann (19-21'), Carl Young (19-21'), Maggie LaRue (18-20'), Gavin Demorest (21-22'), Kayleigh Frazier (19-21'), Sierra Quinn (21')

CERTIFICATIONS

Open Water Diver	2026
<i>PADI</i>	
Adult First Aid and CPR; Health and Safety Institute	2025
<i>Boulder Junction, WI</i>	
Maxi-Boom Principal Operator; WI DNR	2023
<i>Sayner, WI</i>	
Beginner Chainsaw Operator; WI DNR	2023
<i>Boulder Junction, WI</i>	
Wilderness First Aid; SOLO Wilderness Medical School	2021

Bozeman, MT

Electroshocking Certification; Montana Fish Wildlife and Parks

2018

Great Falls, MT

MOCC - USFWS

2017

Yellowstone National Park, WY

PROFESSIONAL NETWORKS

Research Gate Profile: <https://www.researchgate.net/profile/Taylor-Preul-Stimetz>

Personal Website: <https://taypreul.github.io/>

PROFESSIONAL REFERENCES

Greg Sass

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Wisconsin DNR
(715) 891-1875
gregory.sass@wisconsin.gov

Samuel Bourret

Fisheries Biologist
Montana FWP
(406) 751- 4556
SBourret@mt.gov

Brian Ertel

Fisheries Biologist
Yellowstone National Park
(406) 223- 6049
brian.ertel@nps.gov