

Garrett J. Knowlton

Department of Integrative Biology | University of Wisconsin-Madison | Madison, Wisconsin
 gjknowlton@wisc.edu

EDUCATION

2024-Present	Ph.D. in Integrative Biology (Ecology) University of Wisconsin-Madison, Department of Integrative Biology Advisor: Dr. Monica G. Turner
2022-2024	M.S. in Integrative Biology (Ecology) University of Wisconsin-Madison, Department of Integrative Biology Thesis: <i>Postfire tree regeneration suggests reorganization of Greater Yellowstone subalpine forests during the 21st century</i> Advisor: Dr. Monica G. Turner
2015-2020	B.S. with Honor – Fisheries and Wildlife Biology Michigan State University, College of Agriculture and Natural Resources Minor: Geographic Information Science

ACADEMIC EXPERIENCE

Fall 2022-Present	NSF Graduate Research Fellow , University of Wisconsin-Madison
Fall 2023-Sp. 2024	Graduate Teaching Assistant , University of Wisconsin-Madison General Ecology Lab & Discussion (FA23 – 27 Students, SP24 – 38 students)

PROFESSIONAL EXPERIENCE

Research Assistant, National Park Service Climate Change Response Program	Aug. 2021–Aug. 2022
NASA DEVELOP Team Member, National Aeronautics and Space Admin.	Jan.–April 2021
Conservation Programs Intern, Sustainable Forestry Initiative	May–Aug. 2019
Wildlife Field Technician, Grand Teton National Park, WY	May–Aug. 2018
Wildlife Field Technician, Michigan Department of Natural Resources	Feb.–May 2018
Fisheries Research Technician, Michigan State University	May–Aug. 2017

PUBLICATIONS AND TECHNICAL REPORTS

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- Knowlton, G. J.**, T. Keller, R. Seidl, M. Turner. *In review*. Postfire tree regeneration suggests reorganization of Greater Yellowstone subalpine forests during the 21st century.
- Feltman, B., A. R. Warwick, **G. J. Knowlton**, E. Pomeranz, A. Zwickle, L. Burmann, J. Burroughs, J. Schweihofer, T. Conklin, D. Montri, and D. Isenhoff. 2023. Wild game processors' perceptions of chronic wasting disease risks in Michigan. *Human Dimensions of Wildlife*.
- Swayze, N., C. Tsz Hin Choi, **G. J. Knowlton**, and J. Klisaukaite. Colorado Front Range Disasters: Understanding the Impact of Forest Management on the Cameron Peak and CalWood Fire. *NASA DEVELOP Technical Report*: <https://ntrs.nasa.gov/citations/20210014944>

PRESENTATIONS (presenting author only)

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- Knowlton, G.J.**, T. T. Keller, R. Seidl, and M. G. Turner. 2024. Rates and drivers of postfire tree regeneration in Greater Yellowstone subalpine forests during the 21st century. Oral presentation. Biennial Science Conference on the Greater Yellowstone Ecosystem, Big Sky, MT.
- Knowlton, G.J.**, T. T. Keller, R. Seidl, and M. G. Turner. 2024. Postfire tree regeneration suggests reorganization of Greater Yellowstone subalpine forests during the 21st century. Oral presentation. Annual Meeting of the Ecological Society of America, Long Beach, CA.

- Knowlton, G.J.**, T. T. Keller, R. Seidl, and M. G. Turner. 2023. Declining rates of regeneration underlie forest reorganization in Greater Yellowstone. Poster presentation. Annual Meeting of the Ecological Society of America, Portland, Oregon.
- Knowlton, G. J.**, B. Feltman, and A. R. Warwick. 2022. Perceptions of chronic wasting disease among Michigan meat processors. Oral presentation. Pathways: Human Dimensions of Wildlife Conference, Bremerton, Washington.
- Knowlton, G. J.**, C. Choi, J. Klisaukaite, and N. Swayze. 2021. Front Range Disasters: Analyzing the effectiveness of fuel treatment in the CalWood and Cameron Peak fires. Oral presentation. NASA DEVELOP close-out presentation, Fort Collins, Colorado.
- Knowlton, G. J.**, J. K. Trudeau, and D. M. Williams. 2019. White-tailed deer diel patterns in response to urbanization. Poster presentation. Joint Conference of the American Fisheries Society and The Wildlife Society, Reno, Nevada.
- Knowlton, G. J.**, R. L. Cain, and D. M. Williams. Patterns of white-tailed deer reporting to the Boone and Crockett Records program. Oral presentation. Michigan Fish and Wildlife Conference. Gaylord, Michigan.
- Knowlton, G.J.**, R. L. Cain, and D. M. Williams. Spatial analysis of white-tailed deer reporting to the Boone and Crockett Records program. Poster presentation. Annual Meeting of The Wildlife Society. Cleveland, Ohio.

TEACHING

Graduate Teaching Assistant

Fall 2023 – Spring 2024

General Ecology (Botany 460, FA23 - 27 students, SP24-37 students)

Conservation Data Lab, Mentor

The Nature Conservancy

Fall 2021-Present

R Programming for Environmental Science
Google Earth Engine for Ecology Workshop

GRANTS, AWARDS, AND RECOGNITION

2024	McCarter Graduate Student Policy Award – Ecological Society of America
2022-Present	National Science Foundation Graduate Research Fellowship
2015-2020	Dean's List Michigan State University
2020	Anglers of the Au Sable Scholarship
2019	Demmer Scholar, Michigan State University
2019	Wildlife Leadership Award, Rocky Mountain Elk Foundation
2018, 2019	Eastern Michigan Sportsman Scholarship
2019	Peter Tack Memorial Scholarship
2019	MSU College of Ag. and Natural Resources Alumni Scholarship
2018	Andy Ammann Chapter of the Ruffed Grouse Society Scholarship
2018	Michigan State CANR Undergraduate Research Grant <i>White-tailed deer activity and movement across an urban-to-rural gradient</i>
2017	Michigan State CANR Undergraduate Research Grant <i>Patterns of white-tailed deer reporting to the Boone and Crockett Records program</i>

SERVICE

2021-Present	Mentor, Conservation Data Lab / The Nature Conservancy
2023-Present	Member, Ecological Society of America Public Affairs Committee

2023-2024	Co-Outreach Chair, UW-Madison Department of Integrative Biology Graduate Student Organization
2018-2020	J.S. Morrill Leadership Fellow, Michigan State College of Ag. and Natural Resources
2016-2020	Fisheries and Wildlife Club (The Wildlife Society Student Chapter)

PROFESSIONAL MEMBERSHIPS AND CERTIFICATIONS

Ecological Society of America (ESA)

The Wildlife Society (TWS)

International Association for Landscape Ecology – North America (IALE-NA)