

# Alexander L. Lewanski

## Curriculum Vitae

Michigan State University  
288 Farm Lane  
East Lansing, MI 48824 USA

Email : lewanski@msu.edu

## EDUCATION

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<b>Michigan State University</b> PhD in Integrative Biology Advisors: Drs. Sarah Fitzpatrick and Gideon Bradburd	East Lansing, MI 2022 – Present
<b>University of Wyoming</b> MS in Botany Advisor: Dr. Catherine Wagner	Laramie, WY 2018 – 2021
<b>Macalester College</b> BA in Biology with Honors, <i>Summa Cum Laude</i> Advisor: Dr. Mark Davis	St. Paul, MN 2013 – 2017

## EXPERIENCE

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<b>Research technician</b> University of Wyoming (NSF EPSCoR Track-2 STOICH project) Ecological stoichiometry, functional ecology.	Sept. 2021 – Aug. 2022
<b>Graduate research</b> University of Wyoming Speciation and hybridization in cichlid fishes.	Sept. 2018 – Sept. 2021
<b>Research technician</b> University of Illinois Avian and arthropod responses to grassland management.	May 2017 – Aug. 2017
<b>Research intern</b> Mississippi National River & Recreation Area Blanchard's cricket frog ( <i>Acris crepitans blanchardi</i> ) surveys.	May 2016 – July 2016
<b>Undergraduate research</b> Macalester College Population dynamics of garlic mustard, avian behavioral ecology.	May 2015 – May 2017

## PUBLICATIONS

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- Lewanski, A.L.**, J. Golcher-Benavides, J.A. Rick, and C.E. Wagner. 2022. Variable hybridization between two Lake Tanganyikan cichlid species in recent secondary contact. *Molecular Ecology*, 31: 5041–5059. doi:10.1111/mec.16636.
- Anderson, M.D., M.A. Davis, C. Burke, C. Dalrymple, M. Ensley-Field, M., **A. Lewanski**, P. Manning, Z. Moore, R. Morisawa, P. Nguyen, A. Pillar, and J. Dosch. 2019. Comparison of the non-native herb *Alliaria petiolata* with dominant native herbs in microhabitats of a Midwestern forest. *Ecosphere*, 0:e02660. 10.1002/ecs2.266.

Casper, G.S., C.E. Smith, S.M. Nadeau, and **A.L. Lewanski**. 2017. Geographic Distribution: *Acris blanchardi* (Blanchard's cricket frog). *Herpetological Review*, 48:805.

*in review/revision*

Rick, J.A., C.D. Brock, **Lewanski, A.L.**, J. Golcher-Benavides, and C.E. Wagner. Reference genome choice and filtering pipeline jointly influence SNP-based phylogenetic analyses. Available on *bioRxiv* at <https://doi.org/10.1101/2022.03.10.483737>. (*in review*)

## GRANTS, HONORS, AND AWARDS

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DoD National Defense Science and Engineering Graduate Fellowship (\$145,000)	2022 – 2025
Michigan State University Distinguished Fellowship (\$66,000)	2022, 2025
C.L. Porter Summer Fellowship (\$1,100)	2021
NSF Graduate Research Fellowship honorable mention	2020
Dean's Graduate Scholars Award (\$2,500)	2019
Wyoming INBRE Travel-for-training Grant (\$2,500)	2019
Aven Nelson Fellowship in Systematic Botany (\$1,200)	2019
Paul Stock Foundation Arts and Sciences Travel Grant (\$500)	2019
William R. Angell Foundation Prize (\$100)	2017
(Macalester College outstanding senior biology student)	
Phi Beta Kappa Honor Society	2017
Beta Beta Beta Honor Society	2016

## PRESENTATIONS

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**Lewanski, A.L.**, J.A. Rick, J. Golcher-Benavides, and C.E. Wagner. 2023. *Variable population demographic trajectories in Lake Tanganyika's cichlid fish fauna*. Evolution Meeting, Albuquerque, NM (poster).

Rick, J.A., C.D. Brock, **A.L. Lewanski**, J. Golcher-Benavides, and C.E. Wagner. 2023. *Reference genome choices and filtering thresholds jointly influence phylogenomic analyses*. Evolution Meeting, Albuquerque, NM (poster).

Cruz, S.\*, **A. Lewanski\***, C. Wagner, E. Moody, L. Boyle, and A. Krist. 2022. *Effects of Introduced Trout on Functional Traits of Zooplankton Communities in the Wind River Range, Wyoming, USA*. Joint Aquatic Sciences Meeting, Grand Rapids, MI (poster). \*equal contribution

**Lewanski, A.L.**, J. Golcher-Benavides, and C.E. Wagner. 2021. *Variable hybridization between cichlid fishes in recent secondary contact*. Virtual Evolution Meeting. (faux-live oral presentation).

**Lewanski, A.L.**. 2019. *Phylogenetic-functional relationships in ecological communities*. Departmental seminar: University of Wyoming Department of Botany, Laramie, WY (oral presentation).

**Lewanski, A.L.**, J. Golcher-Benavides, E.G. Mandeville, and C.E. Wagner. 2019. *Genomic divergence in sympatric Lake Tanganyika cichlid color morphs*. Evolution Meeting, Providence, RI (poster).

Dalrymple, D., M. Ensley-Field, **A. Lewanski**, A. Pillar, M. Anderson, M. Davis, and J. Dosch. 2016. *Is the Distribution of Garlic Mustard (Alliaria petiolata) at the Ordway Field Station Driven Primarily by Microhabitat Suitability or Dispersal Dynamics?* Macalester Collaborative Summer Research Poster Session, St. Paul, MN (poster).

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## TEACHING

Evolutionary Biology (Spring 2021), University of Wyoming, Graduate teaching assistant.

Genetics (Fall 2020), University of Wyoming, Graduate teaching assistant.

Animal Biology (Spring 2020), University of Wyoming, Graduate teaching assistant.

Biodiversity and Evolution (Spring 2015, Spring 2017), Macalester College, Undergraduate teaching assistant.

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## SERVICE AND OUTREACH

Reviewer: *Evolution* (1), *American Naturalist* (1)

EEB Seed Grant Committee (2023)

STOICH Training & Data Analysis (STDA) Workshop Facilitator (2021)

University of Wyoming Fossil Fish Festival Volunteer (2019)

Hastings Area Bird Festival Volunteer (2016, 2018)

Macalester College BioClub Board Member (2016 – 2017)

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## MEMBERSHIPS

The Society for the Study of Evolution (2019 – present)

Updated October 24, 2023