

# Lauren Azevedo-Schmidt, PhD

POSTDOC RESEARCH ASSISTANT · CLIMATE CHANGE INSTITUTE

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## Education

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### University of Wyoming

PHD ECOLOGY

• Advisor: Dr. Ellen D. Currano

Laramie, WY

August 2022

### University of Wyoming

M.S. BOTANY

• Advisor: Dr. Ellen D. Currano

Laramie, WY

July 2018

### Metropolitan State University, Denver

B.S. APPLIED GEOLOGY

Denver, CO

December 2015

### San Francisco State University

B.A. ART HISTORY

• Focus: Non-Western Art History

San Francisco, CA

May 2009

## Professional Experience

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- 2020-2022 **Graduate Teaching Assistant**, Ecology, University of Wyoming
- 2018-2020 **Graduate Research Assistant**, Program in Ecology, University of Wyoming
- 2016-2018 **Graduate Teaching Assistant**, Botany, University of Wyoming
- 2015-2015 **Geology Intern**, Denver Museum of Nature and Science, Denver CO

## Publications

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**Lauren E. Azevedo-Schmidt**, Aaron F. Diefendorf, Kristen Schlanser, Allie Baczynski, Marieke Dechesne, Regan Dunn, Katherine H. Freeman, Ellen D. Currano. 2022. Local differences in paleohydrology more heavily influence plant biomarkers than regional climate change across two Paleogene Laramide Basins, Wyoming, USA. *Paleo*<sup>3</sup>

Ellen D. Currano, **Lauren Azevedo-Schmidt**<sup>\*</sup>, S. Augusta Maccracken<sup>\*</sup>, Anshuman Swain<sup>\*</sup>. 2021. An exploration of ecological patterns in plant-insect herbivore associations during the Age of Angiosperms. *Paleo*<sup>3</sup>. Invited review paper.

**Lauren E. Azevedo-Schmidt**, Regan E. Dunn, Jason Mercer, Marieke Dechesne, Ellen D. Currano. 2019. Plant and insect herbivore community variation across the Paleocene-Eocene boundary, Hanna Basin WY. *PeerJ*:e7798

<sup>\*</sup> authors contributed equally

## IN REVIEW

Anshuman Swain, **Lauren E. Azevedo-Schmidt**, S. Augusta Maccracken, Ellen D. Currano, Jennifer Dunne, Conrad C. Labandeira, and William F. Fagan. Effects of sampling bias on the robustness of ecological metrics for fossil plant-damage-type association networks. *Ecology*

**Lauren E. Azevedo-Schmidt**, Emily K. Meineke, Ellen D. Currano. Insect herbivory within modern forests is greater than at fossil localities due to human influence. *PNAS*

## IN PREP

**Lauren E. Azevedo-Schmidt**<sup>\*</sup>, Anshuman Swain<sup>\*</sup>, Lauren Shoemaker, Ellen D. Currano. Temperate and tropical tree species experience similar frequencies in total insect herbivory but landscape heterogeneity drives within forest differences. To be submitted to: *PLOS one*

**Lauren E. Azevedo-Schmidt**, Ellen D. Currano. Structural and nutritional plant traits have varying effects on insect herbivory and leaf tissue consumption within temperate and wet-tropical forests. To be submitted to: Ecology Letters

Claudia Richbourg\*, **Lauren E. Azevedo-Schmidt**\*, Ellen D. Currano. Inter and intradepositional pressure on leaf mass per area (LMA) and leaf economic spectrum (LES): a comparison of Eocene fossil leaf compression and modern leaf packs. To be submitted to: Geology

\* authors contributed equally

## Awards, Fellowships, & Grants (Total: \$42,355)

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2021	<b>Payson Scholarship in Botany</b> , Department of Botany, University of Wyoming	\$ 440
2021	<b>Community Foundation of Jackson Hole Edelweiss Fund</b> , Roy J. Shlemon Center for Quaternary Studies, University of Wyoming	\$ 6,040
2020	<b>Wyoming NASA Space Grant Consortium</b> , University of Wyoming	\$ 20,000
2019	<b>Outstanding women in science award</b> , Roy J. Shlemon Center for Quaternary Studies, University of Wyoming	\$ 5,000
2019	<b>Solheim Award</b> , Botany, University of Wyoming	\$ 1,200
2019	<b>Aven Nelson Fellowship in Systematic Botany</b> , Botany, University of Wyoming	\$ 1,300
2019	<b>Service Award</b> , Botany, University of Wyoming	\$ 200
2018	<b>Dean's Graduate Scholars Award</b> , University of Wyoming	\$ 2,000
2018	<b>Edwin B Payson Scholarship</b> , University of Wyoming	\$ 575
2018	<b>Aven Nelson Fellowship in Systematic Botany</b> , Botany, University of Wyoming	\$ 2,500
2018	<b>Service Award</b> , Botany, University of Wyoming	\$ 300
2018	<b>Aven Nelson Fellowship in Systematic Botany</b> , Botany, University of Wyoming	\$ 2,000
2018	<b>Dennis H Knight Graduate Student Fellowship</b> , Botany, University of Wyoming	\$ 1,000
2017	<b>Botany Service Award</b> , University of Wyoming	\$ 200
2017	<b>Research Grant</b> , Paleontological Society Grant	\$ 500

## Presentations

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\* presenting author; # mentored undergraduate

### INVITED TALKS

Fall 2022. **Lauren E. Azevedo-Schmidt**\*, Emily Meineke, and Ellen D. Currano. *Insect herbivory within modern forests is greater than fossil localities*. Invited talk: Geologic Society of America 2022 annual meeting, Denver, CO.

Fall 2021. **Lauren E. Azevedo-Schmidt**\*, S. Augusta Maccraken, Anshuman Swain, and Ellen D. Currano. *Plant-insect interactions across geologic deep-time and modern ecosystems. Are insects hungrier in the modern?*. Invited talk: Entomological Society of America 2021 annual meeting, Denver, CO.

Fall 2020. Ellen D. Currano\*, **Lauren E. Azevedo-Schmidt**, *Plant-insect interactions throughout geologic history*. Invited talk: Geological Society of America 2020 annual meeting, virtual.

### CONTRIBUTED PRESENTATIONS

Spring 2022. Kalley Collins\*\*#, **Lauren E. Azevedo-Schmidt**, Ellen D. Currano. What we can learn from plant traits. Presentation: Rotary Club Cody, WY.

Fall 2021. Kalley Collins\*\*#, **Lauren E. Azevedo-Schmidt**, Ellen D. Currano. Isotopic Composition of Leaves in Harvard Forest. Presentation: WRSP Symposium University of Wyoming, Laramie, WY.

Fall 2021. Adalyn Vergara\*\*#, **Lauren E. Azevedo-Schmidt**, Ellen D. Currano. Effects of the Environment on Plant-Insect Interactions. Presentation: WRSP Symposium University of Wyoming, Laramie, WY.

Fall 2021. Anshuman Swain\*, **Lauren E. Azevedo-Schmidt**, S. Augusta Maccraken, Ellen D. Currano, Jennifer Dunne, Conrad Labandeira, Bill Fagan. Effects of sampling bias on robustness of ecological metrics in fossil plant-damage type association networks, Geological Society of America 2021 annual meeting, Portland, OR.

- Fall 2021. Anshuman Swain\*, **Lauren E. Azevedo-Schmidt**, S. Augusta Maccracken, Conrad Labandeira, Bill Fagan, Ellen D. Currano. Understanding plant-insect interactions in the fossil record. Oral Presentation: IU Network Science Institute, Networks 2021, Washington DC
- Spring 2021. **Lauren E. Azevedo-Schmidt**\*. Plant-insect interactions across geologic deep-time and modern ecosystems: are insects hungrier in the modern?. Oral Presentation: University of Wyoming PiE Symposium, Laramie, WY.
- Fall 2020. **Lauren E. Azevedo-Schmidt**\*. Comparing apples to apples: bringing paleobotanical methods into a modern ecological study. Oral Presentation: Shlemon Center Quaternary Center, Laramie, WY.
- Fall 2020. Natasha Heins\*\*#, **Lauren E. Azevedo-Schmidt**, Ellen D. Currano. Utilizing leaves to quantify changes in insect herbivory across facies, Harvard Forest, Massachusetts, USA. Presentation: WRSP Symposium University of Wyoming, Laramie, WY.
- Spring 2019. **Lauren E. Azevedo-Schmidt**\*. Utilizing paleobotanical field collection methods to compare modern leaf and insect herbivore interactions to fossil data sets. Oral Presentation: University of Wyoming PiE Symposium, Laramie, WY.
- Fall 2019. **Lauren E. Azevedo-Schmidt**\*. Comparing apples to apples: bringing paleobotanical methods into a modern ecological study. Oral presentation: University of Wyoming, Laramie, WY.
- Fall 2018. **Lauren E. Azevedo-Schmidt**\*, Ellen D. Currano. Plant and insect herbivore community variation across the Paleocene-Eocene boundary. Oral presentation: Annual GSA Conference, Indianapolis, IN.
- Fall 2017. **Lauren E. Azevedo-Schmidt**\* and Ellen D. Currano. Paleobotany in the Hanna Basin, WY: Effects of water availability on forest ecosystems during the Paleocene-Eocene in Wyoming. Poster Presentation: CBEP Conference, Snowbird, UT.

## Graduate Teaching Experience

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- Sp 2022 **LIFE 1003: Current Issues in Biology**, Lab instructor
- Sp 2021 **LIFE 1002: Discovering Science**, Teaching assistant
- Sp 2020 **BOT 5000: Graduate Seminar in Ecological Statistics**, Instructor
- Sp 2018 **LIFE 1003: Current Issues in Biology**, Lab instructor
- Fall 2017 **BOT 1101: Paleo's Great Debates**, Teaching assistant
- Fall 2017 **BOT 4775: Forest Ecology**, Teaching assistant and lab instructor
- Sp 2017 **LIFE 1003: Current Issues in Biology**, Teaching assistant
- Sp 2017 **LIFE 1003: Current Issues in Biology**, Lab instructor
- Fall 2016 **LIFE 2023: Biology of Plants and Fungi**, Teaching assistant

## Relevant Work Experience

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Position	Skills	Years
Kitchen Manager	Working well under pressure and deadlines, organization and overseeing of staff, time management, communication, mentoring, able to lead a team, taught new techniques and skill sets	2014-2016
Rock Climbing Route Setter	Technical climbing skills, communication, problem solving, time management, overseeing staff, following safety protocols	2013-2014
Preschool Teacher	Time management, very patient, able to lead team, great organization, working well under pressure	2011-2012

## Mentoring

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Year	Male	Female	First Generation	Description	Institution
2021-2022	0	3	1	Research Assistant	University of Wyoming
2021-2021	0	4	0	Research Assistant	University of Wyoming
2019-2020	0	1	0	Research Assistant	University of Wyoming
2018-2019	0	1	1	Field Assistant	University of Wyoming
2017-2018	1	0	0	Field Assistant	University of Wyoming

## Research Experience

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### University of Wyoming - Dept of Botany

Laramie, WY

ADVISOR: DR. ELLEN D. CURRANO

Aug. 2018 - Present

- Dissertation: "Utilizing modern leaves to calibrate the plant-insect fossil record"

### University of Wyoming - Dept of Botany

Laramie, WY

ADVISOR: DR. ELLEN D. CURRANO

2016-2018

- Thesis: "Plant-insect interactions across the Paleocene-Eocene boundary, Hanna Basin, WY"

### Metropolitan State University, Denver - Dept of Environmental Science

Denver, CO

ADVISOR: DR. BARB ECHOHAWK

2015-2015

- Undergraduate Research Topic: "Soft sediment coring and the use of x-rays to detect changes in sedimentary structures on a coastline, Davenport CA"

## Outreach & Professional Development

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### SERVICE AND OUTREACH

2021-2021 **Program in Ecology**, Co-lead writer of DEI Statement

Laramie, WY

2021-2021 **Midcontinent Paleobotanical Colloquium**, Website design, abstract review

Host: Burke Museum

2019-2022 **Program in Ecology**, Finance Committee Member

UW

2019-2020 **Program in Ecology**, Mentor Mentee Committee Member

2018-2019 **Program in Ecology**, Odyssey Committee Member

### PROFESSIONAL MEMBERSHIPS

Graduate Women in Science

Geological Society of America (GSA)

American Women Geologists (AWG)

International Organization of Paleobotany

Paleontological Society

Girls Who Code

Letters to a Pre-Scientist