

# Emily Morton

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## Education

- University of Wisconsin – Madison *Madison, WI* Anticipated May 2024
    - Master of Science in Life Sciences Communication
  - Colorado State University *Fort Collins, CO* May 2022
    - Bachelor of Science in Fish, Wildlife, and Conservation Biology (Concentration: Conservation Biology)
    - Bachelor of Music in Music Performance
    - Minor in Zoology
    - University Honors Scholar
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## Research Experience

- WI Landowner Resource Website Development *University of Wisconsin-Madison, Madison WI* May 2022-Present
    - Assist the university and UW Extension in the research, design, content creation, and construction of a website containing conservation resources for new landowners around the state of Wisconsin.
  - CSU Extension Internship *Colorado State University, Fort Collins, CO* May-August 2021
    - Assisted in development of a statewide Volunteer Naturalist and Stewardship Program through research of and communication with existing programs around the country, curriculum development, and survey analysis.
  - COVID-19 Performing Arts Bioaerosol Study *Colorado State University, Fort Collins, CO* October 2020-June 2021
    - Improved understanding of spread of bioaerosols by performing artists through facilitating particle emission tests for participants in a simulated lab environment.
    - Increased knowledge of data analysis using microscope cameras and coding in R.
  - CSU Listening Lab *Colorado State University, Fort Collins, CO* September 2018-March 2019
    - Listened to and analyzed sound files from U.S. National Parks to assist with the analysis of noise pollution while improving listening skills and learning about human impact on the environment.
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## Teaching and Leadership Experience

- Graduate Instructor *University of Wisconsin-Madison, Madison, WI* August 2022 – Present
  - Primary instructor for 2 sections of the UW Introduction to Speech Composition course.
  - Lecture, lesson plan, grade assignments, and provide support for 30 undergraduate students.
- Marching Band Section Leader *Colorado State University, Fort Collins, CO* August 2019 – May 2022
  - Lead and act as a role model for 14-22 members of the CSU Piccolo section.
- D.R. and Ginny Pulliam Scholars Program *Colorado State University, Fort Collins, CO* August 2019 – May 2020
  - Refined environmental education skills through teaching 4th grade outdoor fieldtrips, mentoring high school students, and developing nature-based lesson plans.
- Outreach and Animal Care Internship *Nature's Educators, Sedalia, CO* May-August 2019
  - Increase animal care skills by assisting in care for 100+ raptors, reptiles, amphibians, and mammals.
  - Continue to develop and refine presentation skills by assisting with and leading outreach programs teaching groups ranging from 5-150 people in size.
- Wildlife Show Animal Care Internship *Denver Zoo, Denver, CO* June-August 2018
  - Increased existing knowledge about diet preparation, enrichment, husbandry, training, and other aspects of animal care.
  - Learned and assisted with the logistics behind creating and running a free flighted bird show.
  - Developed and refined public speaking skills through presenting shows and smaller public demonstrations.

- Teaching Assistant *Colorado State University, Fort Collins, CO* January-May 2018
    - Assist in leading an honors seminar about the Mountain Pine Beetle epidemic in Colorado as part of an NSF funded study.
    - Attend conference with teachers from local school districts to share lesson plan ideas for K-12 students.
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## Publications

- E. Morton (2023). "Our mission is to try to save the world": Karen Oberhauser heightens sustainability at the UW Arboretum. *University of Wisconsin-Madison Office of Sustainability*. Madison, WI, USA.
  - K. Tanner, K. M. Good, D. Goble, N. Good, A. Keisling, K. P. Keller, C. L'Orange, **E. Morton**, R. Phillips, and J. Volckens (2023) Large Particle Emissions from Human Vocalization and Playing of Wind Instruments. *Environmental Science and Technology Letters*.
  - E. Morton (2022). *Bromeliohyla melacaena*: Ranita de Bromelia Pequeña. *AmphibiaWeb*. University of California, Berkeley, CA, USA.
  - E. Morton (2022). *Leopardus*: small American cats. *Animal Diversity Web*. University of Michigan Museum of Zoology, MI, USA. <https://animaldiversity.org/accounts/Leopardus/>
  - E. Morton (2022). *Oedipina koehleri*. *AmphibiaWeb*. University of California, Berkeley, CA, USA.
  - J. Volckens, K. M. Good, D. Goble, N. Good, J. P. Keller, A. Keisling, C. L'Orange, **E. Morton**, R. Phillips, and K. Tanner (2022). Aerosol emissions from wind instruments: effects of performer age, sex, sound, pressure level, and bell covers. *Scientific Reports*.
  - N. Good, K. M. Fedak, D. Goble, A. Keisling, C. L'Orange, **E. Morton**, R. Phillips, K. Tanner, and J. Volckens (2021) Respiratory Aerosol Emissions from Vocalization: Age and Sex Differences Are Explained by Volume and Exhaled CO<sub>2</sub>. *Environmental Science and Technology Letters*.
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## Poster Presentations

- E. Morton (2021) "Naturalist Program", CSU Extension Summer Internship Poster Session, CSU Extension Annual Conference *Colorado State University, Fort Collins, Colorado*
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## Community Involvement

- Madison Flute Club *Madison, WI* August 2022-Present
    - Board member and webmaster for non-profit organization.
    - Design posters, programs, and other marketing materials for various events.
    - Participate as a member of the adult ensembles.
  - CSU Flute Club Founding Member and Fundraising Chair *Fort Collins, Colorado* March 2021-May 2022
  - Honors Program Ambassador *Fort Collins, CO* September 2018-May 2022
    - Represent the CSU Honors Program through individual meetings with prospective students and attending university wide events for prospective and incoming students.
    - Design weekly newsletter containing work, internship, and other involvement activities available to honors students.
  - CSU Marching Band and Pep Band *Fort Collins, Colorado* August 2017-May 2022
    - Participate in the marching band, practicing 6 hours every week, to promote school spirit at football games and other various events.
    - Participate in Presidential Pep Band and Rampage Basketball Band.
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## Relevant Skills

- Advanced knowledge of Microsoft and Google Suites
  - Basic knowledge of HTML and CSS
  - Proficient in Adobe XD
  - Familiar with Adobe Creative Suite
  - Proficient in R-Studio
  - Basic knowledge of WordPress
  - Proficient in Graphic Design on Canva
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## Memberships

- Alpha Sigma Kappa – Women in Technical Studies Theta Chapter *Fort Collins, Colorado* August 2021-Present
  - Xi Sigma Pi Natural Resources Honor Society *Fort Collins, Colorado* January 2018-Present
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## Relevant Coursework

- Principles of Conservation Biology
- Environmental Education History and Theory
- Environment and Natural Resources Leadership
- Social Aspects of Natural Resource Management
- Wildlife Data Collection and Analysis
- Design of Fish and Wildlife Projects
- Principles of Wildlife Management
- Natural Resource Ecology and Measurements
- Wildlife Ecology and Conservation
- Introduction to Biostatistics
- Geospatial Applications in Natural Resources
- Environmental Ethics
- Professional and Technical Communication
- Senior Honors Thesis
- Introduction to Communication Theory
- Web Design for the Sciences
- Social Media Analytics
- Foundations of Environmental and Sustainability Education
- Science, Politics, and Public Engagement
- Writing Science for the Public
- Communication Research Methods
- Statistical Methods Applied to Education