

# DEVRA HOCK

PH.D. IN PALEONTOLOGY

## PERSONAL PROFILE

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Ph.D. graduate looking to apply her science communication and informal learning knowledge to museums and exhibit development. Excels in collaboration and inter-disciplinary work, project management, and content research and synthesis. Expert in vertebrate paleontology with experience in informal education.

## SPECIALIZATIONS

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- Content Development and Copywriting
- Technical Literacy
- Curriculum Development for Informal Education
- Pedagogy and Inquiry-based Learning
- Illustration and Graphic Design
- Social Media and Website Management
- Statistics

## CORE SKILLS

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- Demonstrated commitment to issues of diversity, equity, accessibility, and inclusion in sciences for all under-represented groups
- Excels in communication of scientific topics to general audiences
- Highly organized with ability to manage multiple projects at once
- Extremely capable in development and implementation of independent research
- Adaptable when working in groups and engaging in conflict resolution
- Self-motivated and passionate
- Creative with mastery in integrating arts and sciences

## CONTACT DETAILS:

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**Email:** devra@paleoegal.com

**LinkedIn:** [www.linkedin.com/in/devra-hock](http://www.linkedin.com/in/devra-hock)

**Website:** [paleoegal.com](http://paleoegal.com)

**Twitter:** @paleoegal\_devra

## CAREER HISTORY

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### DOCTORAL RESEARCHER

#### University of Nebraska-Lincoln, 2018 - 2022

- Designed and implemented original research on mammalian trait distribution
- Created and analyzed novel paleo-ecological proxy methods for biome interpretation of fossil assemblages
- Assisted in managing field work, including transportation, lodging, and food
- Achieved high familiarity with identification of modern and fossil mammalian species
- Strong coding and data management skills

### STEAM CAMP EDUCATOR

#### Camp Summergold, 2018 - 2021

- Developed and taught paleontology course using inquiry-based methods for grades 5 - 12.
- Developed and implemented workshops focusing on areas of applied science in daily life, using inquiry-based techniques for grades 5 - 12.
- Wrote and conducted pre- and post- course evaluations using survey questions and analyses

### SCIENCE CAMP EDUCATOR

#### Sternberg Museum Science Camps, 2021

- Developed and taught new curriculum for virtual science camp on Permian Paleontology, including geology, climate, anatomy, and field skills
- Assisted in creating virtual field environment to mimic real-life Permian outcrops
- Analyzed students' performance with qualitative and quantitative surveys and deliverables

## VOLUNTEER HISTORY

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### COMMUNICATIONS COORDINATOR

#### Association for Women Geoscientists, 2020 - 2023

- Grew and strengthened online media presence by creating an Instagram profile and bolstering Twitter engagement
- Managed committee members, created Asst. Coordinator position and delegated tasks
- Lead development, design, and transition to new website

### DIVERSITY & INCLUSION COMMITTEE MEMBER

#### University of Nebraska-Lincoln, 2021 - 2022

- Part of inaugural team for a standing Diversity & Inclusion Committee
- Provide suggestions to departmental job postings, hiring rubrics, graduate admissions, and Code of Conduct to ensure inclusive language and practices
- Work with members of department Executive Committee and Hiring Committees, as well as university DEI offices

## ACADEMIC HISTORY

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### UNIVERSITY OF NEBRASKA-LINCOLN

#### Ph.D. (ABD) in Earth and Atmospheric Sciences, 2018 - 2022

#### M.S. in Earth and Atmospheric Sciences, spec. in Geology, 2016 - 2018

### MONTANA STATE UNIVERSITY

#### B.S. in Earth Sciences, conc. in Paleontology, 2012 - 2015

#### Minor in Museum Studies, spec. Business Administration

*Magna Cum Laude - 3.6*

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## RELEVANT PUBLICATIONS

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### Papers and Essays

- Hock, D., and Secord, R. Declines of mammalian biodiversity in North American biomes coincident with landscape change. *Submitted*
- Diamond, J. Achiam, M., and D., Hock, D. Designing for Diversity. in *Amplifying Informal Science Learning*, eds. Sherman Rosenfeld and Judy Diamond. Routledge, 2023. *Accepted*.
- Hock, D. 2018. A taxon-free, multi-proxy model for making paleontological interpretations of Neogene North American mammalian faunas. M.S. Thesis, Department of Earth and Atmospheric Sciences, University of Nebraska-Lincoln, Nebraska, USA.

### Abstracts and Oral Presentations

- Hock, D., D. Levering, and B. Gomez. 2022. Using a virtual construct of the Permian Karoo Supergroup to teach high schoolers field survey skills, biostratigraphy, and evidence-based problem solving. *Journal of Paleontology, Program and Abstracts 2022*.
- Hock, D. and R. Secord. 2019. Comparison of 'Big Data' uses in paleoecological multi-proxy models for North American mammalian paleoecological interpretations. *Journal of Paleontology, Program and Abstracts 2019*.
- Hock, D. and R. Secord. 2018. A taxon-free, multi-proxy model for Miocene North American paleoecological interpretations. *Journal of Vertebrate Paleontology, Program and Abstracts 2018*.

## WORKSHOPS/TRAINING

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- URGE (Unlearning Racism in Geoscience), NSF and Woods Hole Oceanographic Institute at University of Nebraska-Lincoln, Department of Earth and Atmospheric Sciences, 2021
- Write Winning Grant Proposals: John Robertson of Grant Writers' Seminars and Workshops LLC, University of Nebraska-Lincoln Office of Research and Economic Development, 2017
- Working with the IACUC: Investigators, Staff and Students, CITI Program, University of Nebraska-Lincoln, 2016
- Responsible Conduct of Research: Biomedical Responsibility of Research, CITI Program, University of Nebraska-Lincoln, 2016
- IIPP and Emergency Preparedness Training, University of Nebraska-Lincoln, 2016
- Situational Awareness Training, University of Nebraska-Lincoln, 2016

## AWARDS

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- Myerly-Martin Award for Vertebrate Paleontology - University of Nebraska-Lincoln, Department of Earth and Atmospheric Sciences; 2021
- Presidential Exchange Award - Association for Women Geoscientists; 2021
- Hubbard Fellowship for Vertebrate Paleontology - University of Nebraska-Lincoln; 2016 - 2018

## HOBBIES/LANGUAGES

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- Aerial dance and fitness
- Musical theater
- Guitar
- Mandarin - beginner to intermediate
- Spanish - beginner

## REFERENCES

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Dr. Judy Diamond - [jdiamond1@unl.edu](mailto:jdiamond1@unl.edu)  
Dr. Cara Burberry - [cburberry2@unl.edu](mailto:cburberry2@unl.edu)  
Dr. Sheri Fritz - [sfritz2@unl.edu](mailto:sfritz2@unl.edu)  
David Levering - [DAlevering@fhsu.edu](mailto:DAlevering@fhsu.edu)