

# EVA MARIE BIEDRON

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## EDUCATION

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<b>Vanderbilt University</b> <i>MS, Earth &amp; Environmental Sciences</i>	<i>2018</i>
<b>University of Oregon, Clark Honors College</b> <i>BS, cum laude, Geological Sciences, Biology, Chemistry (minor)</i>	<i>2016</i>
<b>Harvard University, Extension School</b> <i>Graduate Certificate, Project Management</i>	<i>2021</i>

## EXPERIENCE

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<b>Museum of Comparative Zoology</b> Curatorial Assistant II Harvard University	<i>2018 - present</i> Cambridge, MA
<ul style="list-style-type: none"><li>• Conserve, track, and facilitate user access to 1000000+ fossils using a custom institutional database.</li><li>• Manage projects &amp; direct team-members to a) process 1500+ incoming specimens, b) locate materials &amp; update database, and c) transcribe Spanish-language documents.</li><li>• Aid in annual collection usage statistic preparation &amp; design cabinet condition monitoring system.</li><li>• Manage 1800+ follower Twitter account, respond to inquiries, and educate all ages at outreach events &amp; conferences.</li></ul>	
<b>DeSantis DREAM Lab</b> Research Assistant Vanderbilt University	<i>2016 - 2018</i> Nashville, TN
<ul style="list-style-type: none"><li>• Maintained lab schedules, supplies, and spaces while collecting 500+ microwear &amp; 200+ stable isotope data points.</li><li>• Trained 8+ users in confocal microscope use, stable isotope sample collection/preparation, data analysis, and scientific communication.</li><li>• Tested validity of dental microwear texture as well as stable carbon &amp; oxygen isotope paleo-environment proxies in Australian brushtail possums.</li></ul>	
<b>Museum of Natural and Cultural History</b> Paleontology Collection Assistant University of Oregon	<i>2014 - 2016</i> Eugene, OR
<ul style="list-style-type: none"><li>• Geo-referenced specimens and produced multi-institution training materials for NSF-funded EPICC TCN grant (#1503065, \$606K).</li><li>• Manage specimen inventory and process incoming &amp; outgoing specimens.</li></ul>	
<b>UO Vertebrate Paleontology Lab</b> Undergraduate Research Assistant University of Oregon	<i>2013 - 2016</i> Eugene, OR
<ul style="list-style-type: none"><li>• Reviewed primary literature to construct database of modern primate diets.</li><li>• Used R &amp; ArcGIS (a geographic information system) to analyze &amp; visualize data e.g., Cenozoic fossil diversity.</li><li>• Identified multiple Miocene Sciuridae species to prepare taxonomic reports including tentative description of a new species, <i>Miospermophilus paulinaensis</i>.</li></ul>	
<b>Special Collections and University Archives</b> Reading Room Assistant University of Oregon	<i>2013 - 2014</i> Eugene, OR
<ul style="list-style-type: none"><li>• Identified &amp; retrieved physical &amp; digitized materials for researchers.</li><li>• Processed incoming collections, collected metadata, and digitized materials.</li></ul>	

## PROJECTS

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<b>EVAbase:</b> an SQLite database for my mineral and fossil collection	<i>Ongoing</i>
<b>Project Euler:</b> solving mathematical/computer programming problems in Python and R	<i>2022</i>

## SKILLS

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<b>Analytical Collections</b>	Predictive statistics, Time series analysis, Relational databases, Agent-based modeling
<b>Earth Science</b>	Accessioning, Cataloging & curation, Specimen access & loans, Conservation, Digitization
<b>Software/Tools</b>	Mineralogy & Petrology, Hydrology, Sedimentology & Stratigraphy, Geological mapping
<b>Coding/Tools</b>	Specify, MCZbase/Arctos, OpenRefine, MS Office, Adobe Photoshop & Lightroom
<b>Business</b>	Python (pandas, NumPy, scikit-learn, & seaborn), R, SQL, SQLiteStudio, L <sup>A</sup> T <sub>E</sub> X, Matlab
<b>Communication</b>	Project/process management, Agile methods, negotiation, stakeholder analysis
	Scientific communication, public speaking, social media management, grant-writing

## PUBLICATIONS & PRODUCTS

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**Biedron, E.M.** (2018) A multiproxy approach to tracking aridity across Australian landscapes using brush-tail possums (Marsupialia: Phalangeridae: Trichosurus) Masters of Science Thesis, Vanderbilt University, Nashville, TN.

DeSantis, L.R.G., Alexander, J., **Biedron, E.M.**, *et al.* (2018) *Effects of climate on dental mesowear of extant koalas...* PLOS ONE 13(8): 1-15.

**Biedron, E.M.** (2016) The Sciuridae (Rodentia: Mammalia) of Cave Basin (Oregon), A New Middle Miocene Microfossil Locality Honors Thesis, University of Oregon, Eugene, OR.

**Biedron, E.M.** & Famosos, N.A. (2016) *Using GEOLocate for Collaborative Georeferencing*. EPICC TCN Protocols, University of California Berkeley, Berkeley, CA.

## GRANTS

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<b>National Science Foundation</b> Graduate Research Fund Proposal, Semi-Finalist	2017
<b>Geological Society of America</b> Graduate Research Grant, \$1740.00	2017

## LEADERSHIP

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<b>Association of Women Geoscientists</b> Vanderbilt University Chapter. Treasurer, founding member	2017
<b>Argentine Tango Club</b> University of Oregon. Vice President	2016

## TEACHING

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<b>Earth and Environmental Sciences</b> Teaching Assistant	2016, 2018
Vanderbilt University, EES 1510 Dynamic Earth, EES 3220 Life Through Time	Nashville, TN
<b>Scientific Literacy Program</b> Undergraduate Scholar	2014, 2016
University of Oregon, GEOL 103 Evolving Earth	Eugene, OR

## WORKSHOPS

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<b>Inclusive Scientific Communication</b> Society of Vertebrate Paleontology	2021
<b>Introduction to Biodiversity Specimen Digitization</b> iDigBio	2021
<b>Data Carpentry</b> University of California Museum of Paleontology	2016

## CONFERENCE PRESENTATIONS

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- Byrd, C., Guerrero, J., Spind, C. **Biedron, E.M.** 2023. Assoc. of Materials & Methods in Paleontology. Accepted.
- Byrd, C., **Biedron, E.M.**, Green, C. & J. Woodward. 2021. Society of Vertebrate Paleontology. Online.
- Biedron, E.M.** 2021. Society for the Preservation of Natural History Collections. Online.
- Biedron, E.M.** & DeSantis, L.R.G. 2018. Society of Vertebrate Paleontology. Albuquerque, NM.
- Biedron, E.M.**, & DeSantis, L.R.G. 2018. Geological Society of America, Southeastern section. Knoxville, TN.
- DeSantis, L.R.G., Coulson, G., **Biedron, E.M.**, *et al.* 2018. Geological Society of America, Southeastern section. Knoxville, TN.
- Biedron, E.M.** & L.R.G. DeSantis. 2017. Geological Society of America. Seattle, WA.
- Davis, E.B., Hopkins, S.S.B., Famoso, N.A., **Biedron, E.M.**, *et al.* 2017. Society of Vertebrate Paleontology. Calgary,

AB, Canada.

McLaughlin, W., **Biedron, E.M.**, Davis, E.B., *et al.* 2016. Geological Society of America. Denver, CO.

**Biedron, E.M.** & Hopkins, S.S.B. 2016. Society of Vertebrate Paleontology. Salt Lake City, UT.

Hopkins, S.S.B., Davis, E.B., Theodor, J.M., McLaughlin, W., Reuter, D., Perdue, G., Oberg, D., **Biedron, E.M.**, & Walters, K. 2016. Society of Vertebrate Paleontology. Salt Lake City, UT.

**Biedron, E.M.** & Hopkins, S.S.B. 2016. University of Oregon Undergraduate Symposium. Eugene, OR.

**Biedron, E.M.** & Hopkins, S.S.B. 2016. EVO-WIBO. Port Townsend, WA.

**Biedron, E.M.** & Hopkins, S.S.B. 2015. Society of Vertebrate Paleontology. Dallas, TX.

**Biedron, E.M.** & Hopkins, S.S.B. 2014. Geological Society of America. Vancouver, BC, Canada.

**Biedron, E.M.** & Hopkins, S.S.B. 2014. University of Oregon Undergraduate Symposium. Eugene, OR.

**Biedron, E.M.** & Hopkins, S.S.B., & McLaughlin, W. 2013. Society of Vertebrate Paleontology. Los Angeles, CA.