

Curriculum Vitae

Kendall A. Bartholomew

Ponderosa Discovery LLC
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EDUCATION

M.S. Earth Sciences Dartmouth College 2006
Thesis: *Tidal rhythmites of the late Wisconsinan Champlain Sea*

A.B. Earth Sciences Dartmouth College 2004
Thesis: *Neogene ratite phylogeny interpreted from eggshells and its implications for the Eurasian immigration of ratites and associated Miocene-Pliocene megafauna*
High Honors in Major
Minor: Environmental and Evolutionary Biology

PROFESSIONAL EXPERIENCE

2015–Present **Principal** Ponderosa Discovery LLC
Provide creative solutions for challenging projects in informal science education. Develop innovative and culturally responsive exhibits, programs, and education resources. Write informative science communication materials and persuasive grant proposals. Manage all aspects of company operation.

2014–2016 **Director** Central Oregon STEM Hub (High Desert Museum)
Lead collective impact initiative addressing STEM education and careers in Central Oregon by increasing community awareness of STEM opportunities, equipping educators to engage students in exceptional curriculum, raising student interest and preparedness, and growing a skilled regional workforce. Facilitate collaboration among leaders from the K–12, higher education, informal education, and industry sectors to advance STEM opportunities for students, families, and community members in Deschutes, Jefferson, and Crook counties. Manage all aspects of day to day hub operations. Develop and maintain hub website.

2013–2014 **Federal Grants Coordinator** Oregon Museum of Science and Industry
Lead cross functional teams in development of highly competitive funding proposals for innovative projects. Manage all aspects of proposal submission. Manage reporting and compliance for active federal grants. Write grant and corporate sponsorship proposals.

2010–2013 **Program/Exhibit Developer** Oregon Museum of Science and Industry
Develop content for major exhibits and curriculum for museum programs. Research and distill complex scientific information for public consumption. Maintain scientific accuracy of exhibits and programs. Write exhibit copy panels, programs guides, and grant proposals. Key projects include:

- *Designing Our World*—As an original Co-PI, led concept development for this project addressing STEM equity and the nation’s need for more youth, especially girls, to pursue

engineering. Highly integrated bilingual deliverables, including programming, exhibits, and a community action group, promote positive messages about engineering careers and showcase altruistic, personally relevant, and social aspects of engineering.

- *Renewable Energy*—A bilingual (Spanish and English) 1,500 square foot permanent exhibition in OMSI's earth science hall exploring renewable energy technologies and how they can support our daily energy needs. Served as lead developer for the exhibition as well as three accompanying outreach classroom programs and related tabletop exhibits.
- *Access Algebra*—Led development of a comprehensive professional development program accompanying *Design Zone*, a 6,000 square foot traveling exhibition targeted at middle school audiences. The program introduces museum education staff and volunteers to strategies for facilitating mathematical exploration and algebraic thinking in museum environments. Led content development for exhibit website.

- 2009–2010 **Lead Outreach Educator** Oregon Museum of Science and Industry
Coordinate curriculum development efforts of outreach education staff. Coordinate volunteer, vehicle, and supply usage. Represent outreach staff to upper management. Manage OMSI's satellite classroom at the Blazers Boys & Girls Club in Northeast Portland. Supervise volunteers and part-time staff.
- 2007–2009 **Outreach Educator** Oregon Museum of Science and Industry
Present engaging science curriculum in diverse classrooms and venues across the Pacific Northwest, including hands-on workshops, stage shows, fairs, and festivals. Develop new programs and materials. Care for department animals.
- 2004–2006 **Teaching/Research Assistant** Dartmouth College Department of Earth Sciences
Instruct laboratory sessions for undergraduate courses in earth sciences and paleontology. Assist faculty with grading, tutoring, and research.
- 2004 **Environmental Educator** Montshire Museum of Science
Develop and instruct outdoor environmental education programs for elementary aged youth.
- 2003–2004 **Laboratory Assistant** Dartmouth College Department of Earth Sciences
Catalog and maintain paleontology, sedimentary petrology, and map collections. Assemble and maintain laboratory equipment. Perform photographic work on petrographic and dissecting microscopes.

PUBLICATIONS

(maiden name: Kendall E. Adams)

- Bertschi, K., K. Bartholomew, and M. Johnson. 2011. Design Zone: New OMSI Exhibit Focuses on Algebraic Thinking. *The Oregon Mathematics Teacher (TOMT)* 2011 (Mar./Apr.): 32
- Bartholomew, K. 2010. *Design Zone Teachers' Guide*. Portland, OR: OMSI.
- Bartholomew, K. 2010. *Design Zone Staff Guide*. Portland, OR: OMSI.
- Adams, K., G. Johnson, and E. Posmentier. 2007. Tidal record preserved in marginal sediments of the late Wisconsinan Champlain Sea. *Geological Society of America Abstracts with Programs* 39 (1): 91.
- Adams, K. 2006. Tidal rhythmites of the late Wisconsinan Champlain Sea. Master's thesis, Dartmouth College.
- Adams, K. and G. Johnson. 2006. Tidal rhythmites of the late Wisconsinan Champlain Sea. *Geological Society of America Abstracts with Programs* 38 (2): 29.
- Adams, K. and G. Johnson. 2004. The parataxonomic implications of a south asian ratite record: eggshell morphology and faunal sequence. *Geological Society of America Abstracts with Programs* 36 (5): 423.
- Adams, K. 2004. Neogene ratite phylogeny interpreted from eggshells and its implications for the Eurasian immigration of ratites and associated Miocene-Pliocene megafauna. Senior honors thesis, Dartmouth College.

PRESENTATIONS

- Big Dream*. Welcome remarks presented and panel moderated at film's northwest premier. Bend, OR, January, 2015.
- Girls RISEnet*. Workshop presented to museum and community educators from Alaskan museums and education organizations at the Museum of the North. Fairbanks, AK, October, 2012. With M. Johnson, T. Hecox, L. Huerta-Migas.
- Girls RISEnet*. Workshop presented to museum and community educators from Oregon and Washington at Oregon Museum of Science and Industry. Portland, OR, May, 2012. With M. Johnson, E. Dannen.
- Meet the Numerati! Five-minute Math Conversations II*. Table host during "speed-geeking" session at Association of Science-Technology Centers annual conference. Baltimore, MD, October, 2011.
- Design Zone*. Workshop presented to education staff at Museum of Science and Industry. Tampa, FL, July, 2011. With S. Wu.
- Design Zone*. Workshop presented to education staff at Oregon Museum of Science and Industry. Portland, OR, October, 2010. With M. Cunningham, A. Rubin, J. Mokros.
- Education at the Oregon Museum of Science and Industry*. Session presented at the PAVTEC Annual Math, Science, and Technology Conference for Middle School Girls, Portland, OR, April, 2009.
- Tidal rhythmites of the late Wisconsinan Champlain Sea*. Poster presented at the Geological Society of America northeastern section meeting. Harrisburg, PA, March, 2006.
- The parataxonomic implications of a south asian ratite record: eggshell morphology and faunal sequence*. Poster presented at the Geological Society of America national conference. Denver, CO, November, 2004.

AWARDS AND HONORS

Dartmouth/NASA Space Grant Masters Student Research Prize, 2005

High Honors in Major, Dartmouth College, 2004

Richter Undergraduate Research Grant, Dartmouth College, 2003

2002–2003 Dartmouth College Honor List

Francis L. Town Scientific Prize, Dartmouth College, 2002

SELECT GRANT ACTIVITY

FIRE-PLAN: Wildland Fire + Cultural Burning (Lead Grant Proposal Author)

- \$99,055, National Science Foundation, Advancing Informal STEM Learning, DRL-2331116

Voces de Esperanza (Lead Grant Proposal Author)

- \$1,999,483, National Science Foundation, Advancing Informal STEM Learning, DRL-2314307

Elevating Native Voices (Lead Grant Proposal Author)

- \$249,997, Institute of Museum and Library Services, Museums for America, MA-251505-OMS-22

Designing Our Tomorrow (Lead Grant Proposal Author)

- \$2,675,445, National Science Foundation, Advancing Informal STEM Learning, DRL-1811617

Central Oregon STEM Hub (Director)

- \$135,000, Oregon Department of Education, 2015–2017 Regional STEM Hub Backbone Continuation Grant
- \$30,000, Oregon Department of Education, 2015–2017 Regional STEM Hub Operational Continuity Grant
- \$123,843, Oregon Department of Education, 2013–2015 Regional STEM Hub Grant

Designing Our World (Co-PI, Lead Grant Proposal Author)

- \$2,108,572, National Science Foundation, Advancing Informal STEM Learning, DRL-1322306

Renewable Energy (Lead Exhibit Developer)

- \$200,000, Meyer Memorial Trust, Responsive Grant
- \$230,000, M. J. Murdock Charitable Trust
- \$175,000, The Collins Foundation, Humanities Grant
- Additional support from Portland General Electric, Vestas, Iberdrola Renewables, SolarWorld, Bonneville Power Administration, Mentor Graphics, Christenson Electric, Oregon Wave Energy Trust, Union Bank, Pacific Power Foundation, and Energy Trust of Oregon

Girls RISE (Raising Interest in Science and Engineering) Museum Network (North Pacific Regional Hub Coordinator)

- \$2,599,849, National Science Foundation, Research on Gender in Science and Engineering, HRD-0937245

Access Algebra (Lead Program Developer)

- \$3,006,642, National Science Foundation, Informal Science Education, DRL-0714634

PROJECT PRESS & MEDIA

<http://www.bendbulletin.com/localstate/3512767-151/redmond-workshop-tries-to-make-coding-accessible-for>

<http://mywindowco.com/central-oregon-stem-hub-empowers-learners-become-innovators/>

<http://www.bendbulletin.com/localstate/2824450-151/not-your-average-10-year-old>

<http://startupbend.com/articles/big-dream-film-showing-friday-in-bend/>

<http://www.bizjournals.com/portland/blog/sbo/2013/01/gallery-omsi-exhibit-illuminates.html>

<http://www.kgw.com/story/news/2014/07/25/12420316/>

<http://eastpdxnews.com/general-news-features/renewable-energy-energizes-omsi-exhibit-hall/>

<https://www.youtube.com/watch?v=0dunYw2vWMk>

SERVICE

Institute of Museum and Library Services: Panel Reviewer (2024), Field Reviewer (2023, 2022, 2021, 2020, 2017, 2016, 2013)

Highland Elementary PTO: Fundraising Committee (2023–2024)

Buckingham Elementary STEM School Initiative: Consultation and Support (2015–2016)

COCC Regional Science Expo: Middle School Fair Chair (2016), Judge (2015)

Cascades Academy Science Fair: Judge (2016, 2015)

OMSI Strategic Plan: Listening and Synthesis Team (2014)

OMSI Educator Summit: Educator Deathmatch Judge (2013)

Girls RISE Museum Network: North Pacific Regional Hub Coordinator (2011–2012)

Association of Science-Technology Centers: Math Special Interest Group (2011 Annual Conference)

PROFESSIONAL AFFILIATIONS

Oregon Science Teachers Association (OSTA, former member)

Association of Science-Technology Centers (ASTC, former member)

National Science Teachers Association (NSTA, former member)

The Geological Society of America (GSA, former member)

SKILLS

Web content management systems including: Drupal, Joomla!, Wordpress

Creative software including: Adobe Creative Suite, Inkscape, the GIMP, Scribus, Darktable

Office productivity software including: Basecamp, Google Docs, FileMaker Pro, Microsoft Office Suite, LibreOffice Suite, MailChimp, SurveyMonkey, Google Analytics, Raiser's Edge, Zoom

Education and research software including: Celestia, Stellarium, 123D Design, ArcGIS, ENVI

Photography (event experience, published images)

Petrographic Microscopy

Intermediate French