Curriculum Vitae

Mary E. Kosloski
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Iowa City, Iowa 52242

Education

Ph.D. Geological Sciences, **Cornell University (August 2012)**
Advisor: Dr. Warren Allman
Dissertation title: History and functional morphology of adaptation in *Busycon:* a Pliocene to Recent perspective

B.A. Geological Sciences, **State University of New York at Geneseo (May 2006)**
Advisor: D. Jeffrey Over

Appointments

2015-Present	Lecturer, Earth and Environmental Sciences, University of Iowa
2013 – 2015	Visiting Assistant Professor, Earth Science & Geography, Vassar College
2012-2013	Visiting Assistant Professor, Department of Geology, Colby College
2011-2012	Cornell Engineering, Teaching Assistant Fellow
2011	Adjunct Lecturer, SUNY Geneseo
2010-2011	Cornell Engineering, Graduate Teaching Specialist

Publications

Kosloski, M.E. & W.D. Allmon. Macroecology and Evolution of a Crab "Super Predator", *Menippe mercenaria* (Xanthidae), and its Gastropod Prey. *Biological Journal of the Linnean Society, accepted.*

G.P. Dietl, & **M.E. Kosloski**. 2013. On the measurement of repair frequency: how important is data standardization? *Palaios*. 28(6): 394-402.

Kosloski, M.E., 2011, Recognizing biotic breakage of the hard clam, *Mercenaria mercenaria* caused by the stone crab, *Menippe mercenaria*: An experimental taphonomic approach. *Journal of Experimental Marine Biology and Ecology*, 396: 115-121.

Other Publications

Kosloski, M.E. Teaching Conservation Paleobiology: a new course on applying the geohistorical record to conservation. *In revision*

Kosloski, M.E. & G.P. Dietl. Geographic and morphological differences in growth rate in the knobbed whelk *Busycon carica* Gmelin. *In prep*

Kosloski, M.E., G.P. Dietl, & J. Handley, Anatomy of a cline: Dissecting anti-predatory adaptations in a marine gastropod along the U.S. Atlantic Coast. *In prep*

Awards/Grants

2014	Vassar Research Committee Award ($1,000)
2012	Excellence in Research Award, Cornell University
2011	Ellis L. Yochelsen Student Research Grant, Paleontological Society ($800)
2010	Conchologist of America Grants to Malacology ($1,400)
2010	Bryan Isacks Excellence in Teaching Award, Cornell University
2008	Lerner-Gray Grant for Marine Research ($500)
2008	Cornell Graduate School Research Grant ($500)
2007	Phi Beta Kappa
2006-2007	McMullen Graduate Fellowship, Cornell University
2006	Megathlin Award, SUNY Geneso
2005	Student Association & Geneseo Foundation Undergraduate Research Grant

Research Experience

2012-2013 **Colby College**

-Maintained ~12 saltwater aquaria for Conservation Paleobiology course research project

2007-2012 **Cornell University Paleontology Lab**

-Museum collections based research on fossil and recent mollusks (Smithsonian Natural History Museum, Delaware Museum of Natural History, Florida Museum of Natural History)

-Collection of live gastropods and organization of collecting trips with Georgia MAREX

-Fossil collection in coastal southeastern United States

-Set up and maintained ~30 saltwater aquaria; conducted predation experiments

2008 **Research Assistant, Cornell University and Paleontological Research Institution**

-Stable isotope sampling on Turritellid gastropods

-Morphometric and repair frequency analysis on *Strombus alatus* gastropods

2008 **Shoals Marine Lab**

-Assisted in course fieldwork for Marine Ecology/History

2008 **The University of Manchester**

-Completed web-based Geometric Morphometrics course

2007 **Friday Harbor Marine Labs**

-Completed Marine Invertebrate Zoology course

2005-2006 **State University of New York at Geneseo**

-Undergraduate research project: investigated channel formation and stratigraphy of lag deposit within the Devonian Wiscoy Sandstone

Teaching Experience

2013-Present **Visiting Assistant Professor, Vassar College**
- -Paleontology and the Fossil Record
- -Conservation Paleobiology
- -Earth History
- -Earth, Environment and Humanity
- -Hot Topics in Earth Science and the Media (Freshmen Writing Seminar)

2013-Present **Guest Course Lecturer, Vassar College**
- -Animal Structure and Diversity

2012-2013 **Visiting Assistant Professor, Colby College**
- -The Record of Life
- -Conservation Paleobiology
- -Historical Geology

2012-Present **Research Project Mentor**
- -Shape space occupation and predation in marine gastropods (Sarah Mincer, Vassar College, 2014-present).
- -Taphonomy and Repair Scars (Laura Schacter and Emma Telischi, Vassar College, 2013-present).
- -Learning curve: analyzing changes in predatory techniques of the stone crab *Menippe mercenaria* on whelks (Omari Matthew, Colby College, 2013).
- -Not the most glamorous of topics: waste management at Colby (Dhokela Yzeiraj, Colby College, 2013).

2011 **Adjunct Lecturer, State University of New York at Geneseo**
- -Physical Geology
- -Supervised six teaching assistants and lab sections

2011-2012 **Teaching Assistant Fellow, Cornell University Engineering Learning Initiatives**
- -Lead trainer for six-member team
- -Helped plan, prepare for, manage logistics and run four training and orientation sessions for ~300 new engineering teaching assistants

2010-2011 **Teaching Assistant Trainer, Cornell University Engineering Learning Initiatives**
- -Co-prepared and delivered presentation on teaching effectively to students with different learning styles

2010 **Guest Course Lecturer, Cornell University**
- -Advanced Stratigraphy

2007-2011 **Teaching Assistant, Department of Earth and Atmospheric Sciences, Cornell University**
- -The Earth System
- -Oceanography
- -Evolution of the Earth System
- -Paleobiology

Recent Talks (*-invited)

Kosloski, M.E. & U.E. Smith, 2013, Predation intensity and morphological disparity: does increasing predation constrain shape in marine gastropods? Geological Society of America, Abstracts with Programs, 45:755.

***Kosloski, M.E.**, 2013, Predation intensity and morphological disparity: does increasing predation constrain shape in marine gastropods? *Colby College, Waterville, Maine*.

***Kosloski, M.E.**, 2013, Adaptation, climate change and predation: What controls shell shape in marine gastropods? *Vassar College, Poughkeepsie, New York*.

Kosloski, M.E. & G.P. Dietl, 2012, Quantifying adaptive costs: stable isotope geochemistry and anti-predatory morphologies in Busyconine whelks. Geological Society of America, Abstracts with Programs, 44: 194.

Dietl, G.P. & **M.E. Kosloski,** 2012, Repair Scars 101: The influence of data standardization on the frequency of unsuccessful shell-crushing predation. Geological Society of America, Abstracts with Programs, 44: 271.

***Kosloski, M.E.**, & G.P. Dietl, 2012, Observational Ecology of Predation in Deep Time. *Ecological Society of America Annual Meeting, Portland, Oregon*.

***Kosloski, M.E.**, 2012, Spines and ridges in marine gastropods: why are specific morphologies recurrent through time? *Colby College, Waterville, Maine*.

Kosloski, M.E. & G.P. Dietl, 2011, The use of modern death assemblages to test the geographic mosaic theory of coevolution. Geological Society of America, Abstracts with Programs, 43(5): 504.

Kosloski, M.E., Dietl, G.P. & W.D. Allmon, 2010, The predictive power of morphology: Can we use modern experimental studies to infer past ecology? Geological Society of America, Abstracts with Programs, 42(5): 322.

Kosloski, M. E., 2009, Distinguishing biotic vs. abiotic breakage of the quahog, *Mercenaria mercenaria*, by the stone crab, *Menippe mercenaria*: An experimental taphonomic Approach. 9th North American Paleontological Convention Abstracts. Cincinnati Museum Center Scientific Contributions No. 3, Cincinnati, OH, p.222.

Kosloski, M. E. & G.P. Dietl, Adaptive significance of a morphological cline within the predatory whelk, *Busycon carica*: what, if anything, do differences in morphology mean? Geological Society of America, Abstracts with Programs, 41(7): 265.

Kosloski, M.E., Dietl, G. P., & Herbert, G.S., 2008, Are museum collections adequate to test the escalation hypothesis?: A preliminary case study using the Plio-Pleistocene *Strombus alatus* species complex from Florida. Geological Society of America, Abstracts with Programs, 40(6): 373.

Kosloski, M. E. and Dietl, G. P., 2007, Fossils, coevolution, and conservation: Using the past to evaluate the influence of human activities on the evolution of a predator-prey interaction. Geological Society of America, Abstracts with Programs, 39(6): 169.

Kosloski, M. E. and Dietl, G. P., 2007, Human influences on a coevolutionary arms race between predator and prey: Preliminary results. Geological Society of America, Abstracts with Programs, 39(2): 94.

Service and Professional Activities

2013	Topical session organizer and session chair. Topics in Paleoecology: Predation/Biotic Interactions, GSA Annual Meeting
2012	Session chair. Topics in Paleoecology: Predation/Biotic Interactions, GSA Annual Meeting
2012	Worked as a team to develop and present Expanding Your Horizons workshop on Devonian geology of New York State for middle school girls in science at Cornell University
2011	Facilitator, Leadershape, Cornell Engineering
2010	Session chair. Paleontology V: Predation and Biological Interactions Session, GSA Annual Meeting.

Peer reviewer: Geology; Palaeogeography, Palaeoclimatology, Palaeoecology

Panel Member: NSF