

Curriculum Vitae
Patrick V. Wheatley

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Education

University of California, Santa Cruz, Department of Earth and Planetary Sciences
Ph.D., 2010 in Earth Sciences
Dissertation title – Understanding saltwater tolerance and marine resource use in the
Crocodylia: a stable isotope approach
The University of Texas at Austin, Department of Geological Sciences
M.S., 2004 in Geological Sciences
Thesis title – A calcium isotope growth series of the domestic chicken (*Gallus gallus*)
University of Tennessee, Knoxville, Department of Geological Sciences
B.S., 2001 in Geology
University of Tennessee, Knoxville, Department of Ecology and Evolutionary Biology
B.S., 2001 in Biological Sciences

Professional Appointments

Mar. 2010 - Present: Intelligence Community Postdoctoral Fellow, Center for Isotope
Geochemistry, Lawrence Berkeley National Laboratory, Berkeley, California
Aug. 2008 - Mar., 2010: Research Assistant or Teaching Assistant, Dept. of Earth and Planetary
Sciences, University of California, Santa Cruz
Summer 2008: Instructor, Dept. of Earth and Planetary Sciences University of California, Santa
Cruz
Sept. 2006 -Jun. 2008: Fall –Spring, Research Assistant or Teaching Assistant, Dept. of Earth
and Planetary Sciences; Summers, Instructor, California State Summer School for Math
and Science (COSMOS) University of California, Santa Cruz
Sept. 2004 - Sept. 2006: Research Assistant or Teaching Assistant, Dept. of Earth and Planetary
Sciences, University of California, Santa Cruz
Sep. 2002 - Sept. 2004: Research Assistant or Teaching Assistant, Dept. of Geological Sciences,
The University of Texas at Austin
Jan. - Jul. 2002: Teaching Assistant, Dept. of Geological Sciences, University of Tennessee,
Knoxville
Aug. 2001 - Jun. 2002: Assistant Field Geologist, University of Tennessee, Knoxville

Active Research Interests

Stable isotopes and their uses in paleontology and biology for inferring diet, behavior, and physiology of vertebrate animals
 Evolution of osmoregulation of saline waters by reptiles
 Use of isotope ratios as a forensic tool: stable and trace element isotopes in human hair
 Origins of organic carbon in riverine systems
 Reptiles as recorders of ambient temperature in the fossil record

Articles in Peer Reviewed Journals

Clementz, M.T., K. Fox-Dobbs, **P.V. Wheatley**, P.L. Koch, and D.F. Doak. 2009. Revisiting old bones: coupled carbon isotope analysis of bioapatite and collagen as an ecological and paleontological tool. *Geological Journal*, 44: 605-620.
Wheatley, P.V. and Ruez, D.R., Jr. 2006. Pliocene *Odocoileus* from Hagerman Fossil Beds National Monument, Idaho, and comments on the taxonomic status of *Odocoileus brachyodontus*. *Journal of Vertebrate Paleontology*, 26: 462-465.

Manuscripts Submitted to Peer Reviewed Journals

Wheatley, P. V., S. D. Newsome, H. Peckham, and P. L. Koch. Marine resource use in the American Crocodile (*Crocodylus acutus*) in Southern Florida. *Marine Ecology Progress Series*. In revision.

Manuscripts Currently in Preparation

Wheatley, P.V. and P.L. Koch. Marine Origins for Crocodylians? In prep for *Nature*.
Wheatley, P.V. and P.L. Koch. Marine Ecologies and Physiologies in Crown Clade Crocodylians: Implications for dispersal and biogeography. In prep for *Paleobiology*.
Wheatley, P.V., R.M. Elsey, J.D. Yeakel, and P.L. Koch. Estimating Long-term Diets of Alligators from Rockefeller Wildlife Refuge Using Stable Isotope Analysis. In prep for *Oecologia*.
 Newsome, S.D., **P.V. Wheatley**, and J.D. Yeakel. Tools for quantifying isotopic niche space and dietary variation at the individual and population level. In prep for *Journal of Mammalogy*.

Published Abstracts

Wheatley, P. V. 2010. Evolution of salt-water tolerance in crocodylians and related crocodylomorphs: New insights from stable isotopes. *Journal of Vertebrate Paleontology*, 30 (supplement to 3): 186A.
Wheatley, P. V., and P. L. Koch. 2009. Estimating Long-term Diets of Alligators from Rockefeller Wildlife Refuge Using Stable Isotope Analysis. Joint Meeting of Ichthyologists and Herpetologists. p. 674.
Wheatley, P. V., J. J. Head and P. L. Koch. 2008. Paleoecology of Siwalik Group *Gavialis* (Crocodylia) and Carbon Flux in an Ancient River System. *Journal of Vertebrate Paleontology*, 28 (supplement to 3): 159A-160A.
Wheatley, P. V. and P. L. Koch. 2008. Origin of Salt-Water Tolerance in Crocodylians. *Geological Society of America Abstracts with Programs*, Vol. 40, No. 6, p. 392.

- Wheatley, P. V.** and H. Schwartz. 2007. The geometry and lithology of the Cima Sandstone Lentil: a paleoseep-bearing interbed in the Moreno Formation, central California. *Eos Transactions of the American Geophysical Union*, 88(52), Fall Meeting Supplement., Abstract B43E-1647.
- Wheatley, P.** and P. Koch. 2007. Evolution of salt-water tolerance in crown clade crocodylians. *Journal of Vertebrate Paleontology*, 27 (supplement to 3): 165A.
- Fox-Dobbs, K., **P. V. Wheatley**, and P. L. Koch. 2006. Carnivore specific bone bioapatite and collagen carbon isotope fractionations: case studies from modern and fossil grey wolf populations. *Eos Transactions of the American Geophysical Union*, 87(52), Fall Meeting Supplement., Abstract B53C-0366.
- Wheatley, P.** 2006. Crocodylian ecology: establishing patterns for use in the fossil record. *Journal of Vertebrate Paleontology*, 26 (supplement to 3): 138A.
- Wheatley, P. V.** and P. L. Koch 2006. Isotope ecology of estuarine and freshwater crocodilians. The 5th International Conference on Applications of Stable Isotope Techniques to Ecological Studies. 41.
- Wheatley, P. V.** 2004. Calcium isotope signatures in bone as a potential biomarker for oviparity. *Journal of Vertebrate Paleontology*, 24 (supplement to 3): 129A.
- Wheatley, P. V.** 2003. Calcium isotope systematics during development of the domestic chicken *Gallus gallus*. *Eos Transactions of the American Geophysical Union*, 84(46), Fall Meeting Supplement., Abstract B12C-0798.
- Wheatley, P. V.** and D. R. Ruez Jr. 2003. Pliocene *Odocoileus* from Hagerman Fossil Beds National Monument, Idaho, and comments on the taxonomic status of *Odocoileus brachyodontus*. *Journal of Vertebrate Paleontology*. 23 (supplement to 3):109A.

Invited Lectures

Oct 2010 - Paleontology Working Group, Integrative Biology Department - University of California, Berkeley

Jul 2010 - Department of Geochemistry - Lawrence Berkeley National Laboratory

Instructor Experience

Natural History of Dinosaurs: University of California, Santa Cruz.

Ecology and Evolutionary Biology: California State Summer School for Math and Science (COSMOS), University of California, Santa Cruz.

Marine Mammal Paleontology and Conservation: California State Summer School for Math and Science (COSMOS), University of California, Santa Cruz.

Guest Lectures for Courses

Natural History of Dinosaurs, Spring 2009 - Ceratopsian Dinosaurs

Natural History of Dinosaurs, Spring 2008 – Vertebrate Evolution

The Fossil Record, Winter 2007 – Taxonomy, Classification, and Phylogenetic Systematics

Natural History of Dinosaurs, Spring 2006 – The K-T Extinction

Teaching Assistant Experience

The Fossil Record: University of California, Santa Cruz
 Vertebrate Paleontology: University of California, Santa Cruz
 Natural History of Dinosaurs: University of California, Santa Cruz
 The Age of Mammals: The University of Texas at Austin
 Life through Time: The University of Texas at Austin
 Introductory Geology: The University of Texas at Austin
 Historical Geology: University of Tennessee, Knoxville
 Physical Geology: University of Tennessee, Knoxville

Professional Affiliations

American Geophysical Union (AGU)
 Geological Society of America (GSA)
 Society of Vertebrate Paleontology (SVP)
 Society for the Study of Amphibians and Reptiles (SSAR)

Awards, Honors, and Fellowships

Chevron Research Scholarship, University of California, Santa Cruz, summer 2007, \$2,000
 Aaron and Elizabeth Waters Award for Outstanding Dissertation Proposal, University of California, Santa Cruz, spring 2006, \$3,000
 Center for the Dynamics and Evolution of the Land-Sea Interface (CDELSI) Research Award, University of California, Santa Cruz, winter 2006, \$1,500
 Regents Fellowship, University of California, Santa Cruz, fall 2004, \$4,900
 Exit Fellowship, The University of Texas at Austin, summer 2004, \$3,000
 Carsey Scholarship for Research in Paleontology, The University of Texas at Austin, summer 2003, \$2,500
 Byerly Field Camp Scholarship, University of Tennessee, Knoxville, spring 2001, \$1,000
 McLoughlin Award in Geology, University of Tennessee, Knoxville, spring 2000, \$250
 Walls Award in Geology, University of Tennessee, Knoxville, spring 1999, \$100

Reviewer

Journal of Wildlife Management

Service and Outreach

2010 - Present: Contributor and administrator for science blog (Paleocave blog)
 2009 - Present: Co-Host weekly science podcast (Science... sort of)
 2007 Instructor for California State Summer School for Math and Science (COSMOS)
 2007 Graduate Student Representative for New Faculty Hire Search Committee
 2006 Instructor for California State Summer School for Math and Science (COSMOS)
 2003 Volunteer for Explore UT
 2003 Peer Mentor for incoming Graduate Students