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Education

San Diego State University, San Diego, CA. Fall 2004 – present
Master's candidate in Evolutionary Biology
Thesis: A Systematic Revision of the Agriochoeridae (Cetartiodactyla: Merycoidodontoidea)
Cumulative GPA: 3.59

Occidental College, Los Angeles, CA. Fall 2000 - Spring 2004
B.A. in Geology, minor in Biology
Thesis: Systematics of the Middle Eocene (Uintan-Duchesnean) Protoceratid *Leptoreodon*
Cumulative GPA: 3.01

Academic Work Experience

Graduate teaching assistant. Fall 2004 – Spring 2007.
San Diego State University, Biology 215, Human Anatomy lab instructor
Lectured one section, meeting twice weekly, of 15-25 students per semester in a lab. In addition, also proctored exams, set up exams, graded assignments, ran PARSCORE forms, and supervised one or two undergraduate teaching assistants per semester.

Undergraduate teaching assistant. Fall 2002
Occidental College, Biology 115, Zoology lab assistant
Helped assist 20 students in one section of a weekly lab. Helped with set up and clean up.

Research Experience

Current

Systematics and Phylogeny of the Agriochoerid Oreodonts: individual study examining the paraphyletic supraspecific taxon of fossil cetartiodactyls known as Agriochoeridae, to seek diagnoses and definitions of the taxa present. Once this has been done, a phylogenetic nomenclature of the group can be established and the placement of the group within Merycoidodontoidea can be better ascertained.
Museum work conducted Spring, Fall and Winter of 2005, Spring, Fall and Winter of 2006, Winter, Spring and Summer of 2007.

Previous

Systematics of the Protoceratid *Leptoreodon*: group study examining the species-level systematics of the protoceratid genus *Leptoreodon*. Species boundaries previously found through the study of variability coefficients and dental morphology were supplemented by additional measurements and larger sample sizes. In addition, diagnosed and named a previously recognized but unnamed species.
Museum work conducted Spring and Fall of 2003, Spring 2004.

Magnetostratigraphy and geochronology of the Moonstone Formation: group study examining the paleomagnetic signals of two fossil-bearing sections of the Moonstone Formation of central Wyoming. These signals were correlated with the biostratigraphic data present to assign the sections to the Barstovian-Clarendonian NALMAs. Radioisometric data from the site supported this conclusion. Field work conducted Summer 2003, lab work conducted Summer 2003.

Magnetostratigraphy of the Baca Formation: group study examining the paleomagnetic signals of fossil-bearing sections of the Baca Formation of west-central New Mexico. These signals were correlated with the rare biostratigraphy of the area to assign the sections to the Duchesnean NALMA. Field work conducted Summer 2003, lab work conducted Summer 2003.

Magnetostratigraphy of the Sespe-Vaqueros Formations: group study examining the paleomagnetic signals of fossiliferous sections of the Sespe-Vaqueros Formations of Orange and Los Angeles Counties in southern California. Large unconformities were found between the formations, and the biostratigraphy of the area was useful in assigning the sections to numerous NALMAs in the Eocene, Oligocene, and Miocene epochs. Field work conducted Fall 2002, Spring 2003, lab work conducted Winter 2002.

Publications

- Prothero, DR, JS Anderson, K Chamberlain, and JA Ludtke. In press. Magnetic stratigraphy and geochronology of the Barstovian-Clarendonian (middle to late Miocene) part of the Moonstone Formation, Central Wyoming. *New Mexico Museum of Natural History and Science Bulletin*.
- Calvano, G, DR Prothero, JA Ludtke, and EB Lander. 2008. Magnetic stratigraphy of the Eocene to Miocene Sespe and Vaqueros formations, Los Angeles and Orange counties, California. *Natural History Museum of Los Angeles County Science Series* 41: 43-61.
- JA Ludtke. 2007. Agriocheridae; pp 151-156 in: DR Prothero and S Foss (eds.), *The Evolution of Artiodactyls*. John Hopkins Press, Baltimore, MD.
- Prothero, DR and JA Ludtke. 2007. Protoceratidae; pp 169-176 in: DR Prothero and S Foss (eds.), *The Evolution of Artiodactyls*. John Hopkins Press, Baltimore, MD.
- Ludtke, JA and DR Prothero. 2004. Taxonomic revision of the middle Eocene (Uintan-Duchesnean) protoceratid *Leptoreodon* (Mammalia: Artiodactyla). *New Mexico Museum of Natural History and Science Bulletin* 26: 101-110.
- Prothero, DR, JA Ludtke, and SG Lucas. 2004. Magnetic Stratigraphy of the middle Eocene (Duchesnean) Baca Formation, west-central New Mexico. *New Mexico Museum of Natural History and Science Bulletin* 26: 55-58.

Published Abstracts

- Ludtke, JA. 2007. Preliminary revision of agriocherid oreodonts of Trans-Pecos Texas and Chihuahua. *Journal of Vertebrate Paleontology, Abstracts of Papers, Supplement*, 27(3): 108A.
- Ludtke, JA. 2006. A systematic revision of the "Agriocheridae" (Cetartiodactyla: Oreodonta). *Journal of Vertebrate Paleontology, Abstracts of Papers, Supplement*, 26(3): 91A.
- Ludtke, JA, DR Prothero, J Scott Anderson, K Chamberlain. 2005. Magnetic stratigraphy and geochronology of the Barstovian-Clarendonian (Middle to Late Miocene) part of the Moonstone Formation, Central Wyoming. *Journal of Vertebrate Paleontology, Abstracts of Papers, Supplement*, 25(3): 85A.

- Ludtke, JA, DR Prothero, J Scott Anderson, K Chamberlain. 2005. Magnetic stratigraphy and geochronology of the Barstovian-Clarendonian (Middle to Late Miocene) part of the Moonstone Formation, Central Wyoming. *GSA Abstracts with Program*.
- Ludtke, JA and DR Prothero. 2005. Taxonomic revision of the middle Eocene protoceratid *Leptoreodon* (Mammalia: Artiodactyla). *Society for Integrative and Comparative Biology Final Program & Abstracts*: 181.
- Ludtke, JA, DR Prothero, and SG Lucas. 2004. Magnetic Stratigraphy of the upper middle Eocene Baca Formation, West-Central New Mexico. *Journal of Vertebrate Paleontology, Abstracts of Papers, Supplement*, 24 (3):85A.
- Ludtke, JA and DR Prothero. 2004. Systematics of the middle Eocene (Uintan-Duchesnean) protoceratid *Leptoreodon*. *GSA Abstracts with Program*.
- Ludtke, JA and DR Prothero. 2004. Systematics of the middle Eocene (Uintan-Duchesnean) hornless protoceratid *Leptoreodon* (Mammalia: Artiodactyla). *Paleobios, California Paleontology Conference Abstracts, Supplement*, 24 (1): 6.
- Ludtke, JA and DR Prothero. 2003. Systematics of the middle Eocene (Uintan) Protoceratid *Leptoreodon*. *Southern California Conference on Undergraduate Research*. November 2003.
- Ludtke, JA, DR Prothero, and SG Lucas. 2003. Magnetic Stratigraphy of the upper middle Eocene Baca Formation, West-Central New Mexico. *GSA Abstracts with Program*. 35 (6): 427.
- Ludtke, JA and DR Prothero. 2003. Systematics of the middle Eocene (Uintan) Protoceratid *Leptoreodon*. *Journal of Vertebrate Paleontology, Abstracts of Papers, Supplement*, 23 (3): 73A.
- Ludtke, JA, DR Prothero, and G Calvano. 2003. Magnetic Stratigraphy of the Eocene-Oligocene-Miocene Sespe-Vaqueros Formations, Northern Orange County, California. *Paleobios, California Paleontology Conference Abstracts, Supplement*, 23 (1): 5.
- Ludtke, JA, DR Prothero, and G Calvano. 2003. Magnetic Stratigraphy of the Eocene-Oligocene-Miocene Sespe-Vaqueros Formations, Northern Orange County, California. *Western Association of Vertebrate Paleontologists Abstract and Program*.

Memberships

Society of Vertebrate Paleontology, 2003 – present
 Geological Society of America, 2003 – present
 Society for Integrative and Comparative Biology 2004-present
 The Paleontological Society, 2006 – present