

Ryan James Haupt

Department of Geology and Geophysics, Dept. 3006
1000 E. University Ave. University of Wyoming
Laramie, WY 82071

<http://www.ryanhaupt.com/>
rhaupt@uwyo.edu

Education

- **PhD Candidate**, Department of Geology and Geophysics, University of Wyoming, August 2012 – Present. Advisor: Mark T. Clementz
- **Master of Science in Earth & Environmental Science**, Vanderbilt University, 2012. Advisor: Larisa R.G. DeSantis
Thesis: DENTAL MICROWEAR TEXTURE ANALYSIS OF DENTIN: CAN MAMMALIAN DIETS BE INFERRED WITHOUT ENAMEL?
- **Bachelor of Science in Environmental Geology**, University of California, Santa Cruz, 2009. Subject GPA: 3.4
- **Bachelor of Science in Ecology & Evolutionary Biology**, University of California, Santa Cruz, 2008. Subject GPA: 3.5

Research & Field Experience

- **Intern**, GeoCorps – Geologists in the Parks at Florissant Fossil Beds National Monument, Summer – Fall 2015. *Duties*: Designed new wayside exhibits; scripted, filmed, and edited videos for a new touchscreen kiosk exhibit; managed official social media channels for the park
- **Volunteer**, Natural Trap Cave excavation, Summer 2015. *Duties*: Descend into cave to dig test pits and excavate fossils from main pit
- **Intern**, Panama Canal Project – Partnerships in International Research and Education, Spring 2014. *Duties*: Prospect, quarry, and excavate fossils along the Panama Canal and other field localities in the country. Assist in the preparation and description of collected samples, and become an active participant in the local research community.
- **Lab Technician / Research Assistant**, Earth & Planetary Sciences, University of California, Santa Cruz, Fall 2006 – Summer 2010. *Duties*: Assisted with various projects requiring variety of skills including sample collection and preparation, use of stable isotope mass spectrometer, and training new hires.
- **Summer Field Capstone**, Earth & Planetary Sciences, University of California, Santa Cruz. *Topic*: Mapping the Poleta Folds Belt, Deep Springs Valley, CA. Summer 2009.
- **Agroecology in the Tropics Field Course**, Education Abroad Program, University of California, Santa Cruz. Spring 2008.

Teaching Experience

- **Instructor of Directed Overnighter (National Youth Science Camp)** Summer 2016. *Duties:* Took two groups of recent high school graduates to a fossil locality to explore and collect fossils while discussing the geology and paleontology of the Appalachian region.
- **Instructor of Record (University of Wyoming)** Writing a Scientific Manuscript, Fall 2014. *Duties:* Designed course, assigned readings and assignments, graded student work, assigned final grades
- **Instructor (Office of Tropical Studies)** Introduction to Tropical Ecology – Podcast Workshop, January 2014. *Duties:* Taught graduate students the basics of audio recording, editing, and podcasting styles. Had students produce their own short shows for presentation to the class.
- **Teaching Assistant (University of Wyoming)** Introduction to Paleontology. *Duties:* Design and administer lab exercises and exams.
- **Teaching Assistant (Vanderbilt University)** Oceanography, Dynamic Earth, Earth and the Atmosphere, Global Climate Change. *Duties:* Lab exercise design and implementation, preparation of lab for other TAs, and grading assignments.
- **Learning Assistant (University of California, Santa Cruz)** Introduction to Statistics, Fall 2008 & Ecology & Evolution, Winter 2009. *Duties:* Held weekly group tutoring sessions for students seeking extra help.
- **Teaching Assistant (University of California, Santa Cruz)** Natural History & Evolution of Dinosaurs 2007 and 2009 & Introduction to Geological Field Methods 2009. *Duties:* Held discussion sections, graded quizzes, and joined class on field trips.
- **Reader (University of California, Santa Cruz)** Natural History & Evolution of Dinosaurs, Spring 2006, Winter 2007, and Spring 2009. *Duties:* Graded homework assignments and final projects.
- **CalTeach Intern**, Spring 2006 – Fall 2006 *Duties:* Assisted in high school classrooms and the summer COSMOS program, including helping students with material and planning lessons.

Work Experience

- **Docent** for University of Wyoming Geological Museum, August 2013 – Present. *Duties:* Social media coordination, day-to-day assistance of visitors, event planning, exhibit development.
- **Scientific Accuracy Consultant for Parque MegaFauna Monteverde, Costa Rica**, May 2008 – July 2008. *Duties:* Prepared detailed report on accuracy of park exhibits and signage with suggestions for improvement in terms of scientific and English translation accuracy.

Publications

- Haupt, R.J.** and L.R.G. DeSantis. *In preparation*. Dietary interpretations of extinct xenarthrans during glacial and interglacial periods in Pleistocene Florida using Dental Microwear Texture Analysis.
- DeSantis, L.R.G., Schubert, B.W., Schmitt-Linville, E., Ungar, P.S., Donohue, S.L., and **Haupt, R.J.** 2015. Dental Microwear Textures of Carnivorans from the La Brea Tar Pits, California, and Potential Extinction Implications. *La Brea and Beyond: The Paleontology of Asphalt-Preserved Biotas*, 42: 37-52.
- Cliffe, R.N., **Haupt, R.J.**, Avey-Arroyo, J.A., and R.P. Wilson. Sloths like it hot: ambient temperature modulates food intake in the brown-throated sloth (*Bradypus variegatus*). *PeerJ*, 3:e875.
- DeSantis, L.R.G. and **R.J. Haupt**. 2014. Cougars' key to survival through the late Pleistocene extinction: insights from dental microwear texture analysis. *Biology Letters*, 10(4): 20140203.
- Veter, N.M., DeSantis, L.R.G., Yann, L.T., Donohue, S.L., **Haupt, R.J.**, Corapi, S.E., Fathel, S.L., Gootee, E.K., Loffredo, L.F., Romer, J.L., and S.M. Velkovsky. 2013. Is Rapoport's rule a recent phenomenon? A deep time perspective on potential causal mechanisms. *Biology Letters*, 9: 20130398.
- Yann, L.T., DeSantis, L.R.G., **Haupt, R.J.**, Romer, J.L., Corapi, S.E., and D.J. Ettenson. 2013. The application of an oxygen isotope aridity index to terrestrial paleoenvironmental reconstructions in Pleistocene North America. *Paleobiology*, 39: 576-590.
- Haupt, R.J.**, DeSantis, L.R.G., Green, J.L., and P.S. Ungar. 2013. Utility of dentin microwear in xenarthrans as a dietary indicator. *Journal of Mammalogy* 94 (4): 856-866.

Abstracts & Presentations

- Haupt, R.J.** 2016. Using very very tiny things that are a bit heavier than almost the same very very tiny things to understand much bigger things like animals. *American Geophysical Union Fall Meeting*, PA53B.
- Haupt, R.J.**, McDonald, H.G., and Clementz, M.T. 2016. Dietary preferences of the Shasta ground sloth (*Nothrotheriops shastensis*) inferred from stable isotope analysis of coprolites. *Society of Vertebrate Paleontology Abstracts of Papers, 76th Annual Meeting*: 150
- Haupt, R.J.**, Clementz, M.T., DeSantis, L.R.G., and Fox-Dobbs, K. 2016. Inferring sociality in extinct Carnivorans from dental microwear textures: Lessons from bone consumption and pack status in modern Yellowstone wolves. *Geological Society of America Annual Meeting*, 48(7): 17-15.
- Haupt, R.J.**, Hastings, A.K., Clementz, M.T. Are tiny teeth indicators of a crocodylian nesting ground or juvenile refuge in the Miocene of Panama? *22nd Annual Tate Museum Conference*.
- Haupt, R.J.**, DeSantis, L.R.G., Koch, P.L. 2016. Health and hunting success in Florida Panthers (*Puma concolor coryi*) as revealed by stable isotope analysis and

- dental microwear textures. *Southeastern Association of Vertebrate Paleontologists Annual Meeting*: 19
- Haupt, R.J.** 2016. Looking in and talking out: Proxy methods to explain how pumas survived the LPE and how to tell the public about it. *Ohio Northern University Department of Biological & Allied Health Sciences Seminar Speaker Series*.
- Haupt, R.J.**, Wheatley, P.W., Padilla, A., Barnhart, C.J. 2015. The Success of Podcasting as a Success for Science Outreach. *American Geophysical Union Fall Meeting*, PA24A-04.
- Padilla, A., **Haupt, R.J.**, Wheatley, P.W., and Barnhart, C.J. 2015. Podcasting as an Effective Medium for Direct Science Communication and Outreach to the General Public. *American Geophysical Union Fall Meeting*, ED41B-06.
- Haupt, R.J.**, Meyer, H.W., O'Connor, C.J., Desai, D., and Hattori, K.E. 2015. Developing and delivering digital content through multiple media avenues and exhibits at Florissant Fossil Beds National Monument, Colorado. *Geological Society of America Annual Meeting*, No. 184-4.
- Haupt, R.J.**, Hastings, A.K., and Clementz, M.T. 2015. Quantitative analysis of fossil crocodylian teeth to identify a potential juvenile refuge or nesting ground in the Miocene of Panama. *Society of Vertebrate Paleontology Abstracts of Papers, 75th Annual Meeting*: 59
- Vietti, L.A., Kerr, T.J., **Haupt, R.J.**, and Clementz, M.T. 2015. Overview and Significance of the University of Wyoming Vertebrate Fossil Collection. *Society of Vertebrate Paleontology Abstracts of Papers, 75th Annual Meeting*: 59
- Haupt, R.J.**, Vietti, L.A., Kerr, T.J., and M.T. Clementz. 2015. Overview and significance of the University of Wyoming Paleozoic and Mesozoic Vertebrate and Invertebrate Fossils Collections. *Geological Society of America: Rocky Mountain Section - 67th Annual Meeting Abstracts with Programs* 47(6): 12.
- Kerr, T.J., Vietti, L.A., **Haupt, R.J.**, and M.T. Clementz. 2015. Overview and significance of the University of Wyoming Cenozoic Vertebrate Fossil Collection. *Geological Society of America: Rocky Mountain Section - 67th Annual Meeting Abstracts with Programs* 47(6): 12.
- Haupt, R.J.** and A.K. Hastings. 2015. Potential record of a Panamanian Miocene fossil crocodylian nesting ground at Hodge's Hill Microsite. *4th Meeting of the Network for Neotropical Biogeography Program and Abstracts*: 19.
- Haupt, R.J.** and L.R.G. DeSantis. 2014. Paleoecological insights from dental microwear textures of extinct xenarthrans during glacial and interglacial periods in Pleistocene Florida. *Society of Vertebrate Paleontology Abstracts of Papers, 74th Annual Meeting*: 144.
- Haupt, R.J.** 2014. The Big Cats of La Brea: How Pumas May Have Survived the Late Pleistocene Extinction in North America. 20th Annual Tate Museum Conference.
- Haupt, R.J.** 2014. Paleoecological insights from dental microwear of extinct xenarthrans. Smithsonian Tropical Research Institute Fellow and Interns Symposium.
- Haupt, R.J.** 2014. Dental Microwear of Modern Xenarthran Dentin and Implications for Fossil Paleoecology. Smithsonian Tropical Research Institute Center for

- Tropical Paleontology and Archeology invited Paleotalk.
- Haupt, R.J.** and DeSantis, L.R.G. 2013. Insights from Dental Microwear Texture Analysis into the Survival of Cougars (*Puma concolor*) through the Late Pleistocene Extinction. *Society of Vertebrate Paleontology Abstracts of Papers, 73rd Annual Meeting*: 140.
- Lashinsky, N., DeSantis, L.R.G., Yann, L.T., Donohue, S.L., and **R.J. Haupt**. 2013. *Society of Vertebrate Paleontology Abstracts of Papers, 73rd Annual Meeting*: 159-160.
- Haupt, R.J.**, Eckrich, C.A., Pratt, A.C., Newsome, S.D., and D.G. Williams. 2013. Isotope ecology and inquiry-based learning using on-campus museum resources: examining niche partitioning between deer mice and greater sage-grouse in Wyoming. *Front Range Isotope Day Annual Meeting*.
- Haupt, R.J.** and L.R.G. DeSantis. 2012. Integrating Dental Microwear Texture Analysis and Geochemical Data in an Extant Carnivore (*Puma concolor*): Lessons Learned from Modern Ecology of Applications to Paleoecological Studies. *Society of Vertebrate Paleontology Abstracts of Papers, 72nd Annual Meeting*: 107.
- Haupt, R.J.** and L.R.G. DeSantis. 2012. Dentin as a dietary indicator in extant xenarthrans and its applicability to the fossil record. *Southeastern Association of Vertebrate Paleontologists Annual Meeting*.
- Haupt, R.J.**, DeSantis, L.R.G., and J.L. Green. 2011. Dental Microwear Texture Analysis of Dentin. *Society of Vertebrate Paleontology Abstracts of Papers, 71st Annual Meeting*: 33.
- Yann, L., **Haupt, R.J.**, DeSantis, L., Romer, J., and S. Corapi. 2011. Mammalian Oxygen Isotope Values as an Indicator of Regional Climatic Differences in the Pleistocene North America. *Society of Vertebrate Paleontology Abstracts of Papers, 71st Annual Meeting*: 44.
- Yann, L., **Haupt, R.J.**, DeSantis, L.R.G., Romer, J., and S. Corapi. 2011. Mammalian Oxygen Isotope Values as an Indicator of Regional Climatic Differences in the Pleistocene North America. *Southeastern Association of Vertebrate Paleontologists Annual Meeting*.
- Haupt R.J.**, Wheatley P.V., and C. Barnhart. 2010. Science Podcasting as a Means of Disseminating Current Peer-Reviewed Work to the Lay Public. *Society of Vertebrate Paleontology, Education & Outreach Abstracts*.
- Haupt R.J.**, Oliphant, D.Q., Zachos, J.C., Murphy, B.H., and C. Moore. 2009. Using the iPhone as a Brunton: Techniques and Applications. *Geological Society of American Annual Meeting Abstracts*, 41(7): 277.

Honors & Awards

- GSA Annual Meeting Student Travel Grant, 2016: \$50
- W. E. Andrau Scholarship 2016/2017: \$1,000
- Winner of Experiment.com Paleontology Challenge Grant, 2016: \$1,000
- Experiment.com campaign (experiment.com/sloths), 2016: \$6,116

- American Geophysical Union Societal Impacts and Policy Sciences Travel Award, 2015, \$500
- GeoCorps Travel Grant for Geological Society of America (GSA) Annual Meeting, 2015, \$100
- GSA Rocky Mountain Section Student Travel Grant, 2015, \$110
- Jackson School of Geosciences Student Member Travel Grant, 2014, \$600
- Sigma Xi Grant in Aid of Research, 2014, \$1,000
- GSA Graduate Student Research Grant, 2010, \$4,000.
- Weber-Holt Student Award for Field Study, 2009, \$500.

Society memberships

American Society of Mammalogists * Sigma Xi * Society of Vertebrate Paleontology
Geological Society of America * American Geophysical Union

Outreach

- **AGU representative** for 2015 Geoscience Congressional Visit Day (<http://sciencepolicy.agu.org/cvd/>) with a follow up blog post (<http://thebridge.agu.org/2015/11/02/visiting-my-legislators-was-a-bit-like-the-west-wing/>)
- **Host of Science... sort of** (<http://www.sciencesortof.com/>), an audio podcast available online worldwide. Total downloads as of July, 2016: 2.1 million
- Provided advice and feedback for the book *WTF, Evolution?!* (<http://amzn.to/2eipZxI>)
- 'Expert' for Ask a Biologist website (<http://www.askabiologist.org.uk/>), 2011 – 2016
- **Consultant for the Science and Entertainment Exchange**, a program of the National Academy of Sciences aimed at helping creative apply sound science to their fiction
- **Writer for [Marvel.com](http://www.marvel.com)**, using superheroes to explain real world science, 2010 - 2014
- **Judge at Wyoming State Science Fair**, 2013
- **In person and online visits to high schools** to talk about careers in science
- **Cal Academy Nightlife Science Insider**, Spring/Summer 2010