

## **CURRICULUM VITAE: LARISA R. G. DESANTIS**

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February 1, 2021  
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### **DEGREES EARNED**

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- 2009** *Ph.D. in Zoology with a minor in Botany*, University of Florida, Department of Biology (8/04-8/09).  
Dissertation Title: *Paleoecology of forest environments through time: evidence from stable isotopes of mammalian herbivores in the New World*  
Advisor: Dr. Bruce MacFadden, Florida Museum of Natural History
- 2003** *M.E.M. in Conservation Biology*, Yale University, School of Forestry and Environmental Studies (8/00-12/02)  
Advisor: Dr. Oswald Schmitz
- 2000** *B.S. in Resource Management*, University of California, Berkeley (8/98-5/00, 1 year completed at the University of Chicago 9/97-6/98)  
College Honors (College of Natural Resources) and Major Honors

### **EMPLOYMENT HISTORY**

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- 2019-** *Associate Professor*, Department of Biological Sciences (**Primary Appointment** with tenure), Vanderbilt University; Department of Earth and Environmental Sciences (Secondary Appointment with tenure), Vanderbilt University; Note, I began a new joint appointment with the mentioned departments in 2019, with a switch in my primary and secondary appointments; I have tenure in both departments.
- 2018-** *Associate Professor*, Department of Earth and Environmental Sciences (**Primary Appointment** with tenure), Vanderbilt University; Department of Biological Sciences (Secondary Appointment), Vanderbilt University
- 2015-** *Assistant Professor*, Department of Biological Sciences (Secondary Appointment), Vanderbilt University
- 2021-** *External Supervisor*, School of Biological Sciences, University of Adelaide, Australia
- 2015-2018** *Affiliate Faculty*, Department of Integrative Biology, Oregon State University
- 2014-** *Research Associate*, The Page Museum/Los Angeles Natural History Museum
- 2010-** *Research Associate*, Center of Excellence in Paleontology, East Tennessee State University
- 2009-** *Assistant Professor*, Department of Earth and Environmental Sciences (**Primary Appointment**, tenure-track), Vanderbilt University

### **HONORS & AWARDS**

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*Vanderbilt University*

- 2019-2021** *Executive Committee Member-at-Large* (elected position), Society of Vertebrate Paleontology
- 2018-2020** *Distinguished Lecturer* (representing all of North America), Society of Vertebrate Paleontology
- 2016** *Award of Recognition from the Vanderbilt School for Science and Math*, Vanderbilt University
- 2015-2016** *Littlejohn Faculty Fellow*, Vanderbilt University
- 2015-2016, 2018-2019** *Junior Faculty Teaching Fellow*, Center for Teaching, Vanderbilt University
- 2015-2020** *NSF CAREER Award*, National Science Foundation (also listed under grant support)
- 2011** *Ralph E. Powe Junior Faculty Enhancement Award in Physical Sciences*, Oak Ridge Associated Universities (also listed under grant support)

### *Pre-Vanderbilt Years*

#### **University of Florida** (including competitive fellowships, excluding grants)

- 2010** *Florida Museum of Natural History Austin Award*. For excellent research in the natural sciences. (2009 recipient, awarded in 2010, \$250)
- 2005-2009** *University of Florida Alumni Fellowship*, Department of Zoology (\$60,000 in total). Top fellowship awarded by the University of Florida (4 years of annual funding).
- 2004-2009** *Lucy Dickinson Fellowship in Vertebrate Paleontology*, Florida Museum of Natural History (2004-2007, 2008-2009; \$24,000 in total).
- 2005-2008** *Southeast Alliance for Graduate Education and the Professoriate Fellowship*, National Science Foundation (\$20,000 in total). For achievement and potential for success in STEM fields.
- 2008** *Edward S. Deevey Award*, Ecological Society of America (\$300). Awarded for the best Paleocology Student Presentation at the Ecological Society of America Meeting. See [award write-up](#).
- 2007** *Gainesville Women's Club Scholarship*, Gainesville Women's Club (\$1000).
- 2004-2005** *Science Partners in Inquiry-based Collaborative Education GK-12 Fellowship*, National Science Foundation (\$31,000 in total).

#### **Yale University**

- 2001-2003** *Yale School of Forestry and Environmental Studies Merit Scholarship*, Yale University (\$10,000 in total).
- 2001, 2002** *Charles F. Wilson Award*, Yale University (\$2,500 per award).
- 2002** *Society of American Foresters Research Award*, Yale University (\$500).
- 2002** *Peabody Museum Biodiversity and Human Health Award*, Peabody Museum.

#### **University of California, Berkeley**

- 2000** *Honors in the College of Natural Resources*
- 2000** *Honors in the Major of Resource Management*
- 2000** *Honors Thesis Award*, University of California, Berkeley
- 2000** *National Champion in Parliamentary Debate* (University of California, Berkeley), National Parliamentary Debate Association.
- 2000** *Western States Communication Association Award*
- 1999, 2000** *Xi Sigma Pi Membership* (Forestry Honor Society)

## **RESEARCH**

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(\* = graduate student or postdoc, \*\* = undergraduate student, \*\*\* = high school student, § = corresponding author, bold = current/former lab member) ***Until 2019, authorship was assigned sequentially (with the last author contributing the least), after which point I adopted authorship typical of the biological sciences where the PI is listed last.***

Also, see: <https://www.desantislab.com/researchprogram>

### **A. Books**

#### *Vanderbilt Years*

- (2) Book proposal in submission for Cambridge University Press. I submitted a book proposal that was initially well reviewed by the editor; however, they are now asking for a sample chapter communicating one of the most complex topics (I am currently working on this sample book chapter).
1. *Fox Food*, by Larisa DeSantis. Copyright 2020 to Larisa Grawe DeSantis, self-published on-line and free to download (In press, awaiting image copyright clearance). A children's book about invasive foxes in Australia. Not a scholarly work. A broader impact's component of an NSF CAREER grant during the COVID-19 pandemic. See also: <https://www.desantislab.com/educational-resources> (a review copy is available).

**B. Articles in Refereed Journals** (57 published/In press; an additional 12 in review, including 3 provisional acceptances)

*Vanderbilt Years*

**In review/In press**

- (69) \*White, J.M., **DeSantis, L.R.G.**, Evans, A.R., Wilson, L.A.B., McCurry, M.R. A panda-like diprotodontid? Assessing the diet of *Hulitherium tomasetti* using dental complexity (OPCR) and dental microwear texture analysis. *Paleobiology* (In submission)
- (68) \*Pardi, M.I., **DeSantis, L.R.G.** Climate change as an unlikely driver of Late Pleistocene proboscidean extinctions and extirpations, a tale of two elephants. *Scientific Reports* (In submission)
- (67) \*Burt, A. **DeSantis, L.R.G.** § Dietary behavior of wolves (*Canis lupus*) from the Greater Yellowstone Ecosystem as inferred from dental microwear texture analysis. *Wildlife Biology* (In review)
- (66) \*Biedron, E.M., **DeSantis, L.R.G.** § A multi-proxy approach to tracking aridity across Australian landscapes using brushtail possums. *Journal of Mammalogy* (In submission; a special edited volume)
- (65) **DeSantis, L.** §, \*Pardi, M.I., Du, A., \*Greshko, M.A., Yann, L.T., Hulbert, R.C., Louys, J. Global long-term stability of individual dietary specialization in herbivorous mammals. *American Naturalist* (In submission)
- (64) **DeSantis, L.R.G.** §, Feranec, R.S., Anton, M., Lundelius, Jr., E. Dietary ecology of the scimitar-toothed cat *Homotherium serum* from Friesenhahn Cave—an open-habitat predator. *Current Biology* (In revision)
- (63) **DeSantis, L.R.G.** §, Feranec, R.S., Southon, J., Fox-Dobbs, K., Cerling, T.E., Harris, J., Binder, W., Cohen, J.E., Farrell, A.B., Lindsey, E., Meachen, J., O’Keefe, F.R., Takeuchi, G.T. On the relationship between collagen- and carbonate-derived carbon isotopes with implications for the inference of carnivore dietary behavior. *Paleobiology* (In revision)
- (62) \*Pardi, M.I. §, **DeSantis, L.R.G.** § Dietary plasticity of North American herbivores: A synthesis of stable isotope data over the past 7 million years. *Proceedings of the Royal Society B* (In revision)
- (61) \*Cohen, J.E., **DeSantis, L.R.G.**, Lindsey, E.L., Meachen, J.A., O’Keefe, F.R., Southon, J.R., Binder, W.J. Dietary stability inferred from dental mesowear analysis in large ungulates from Rancho La Brea and opportunistic feeding during the Late Pleistocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* (In revision)
- (60) \*Kelly, A. Miller, J.H., Wooler, M.J., Seaton, T., Drunkenmiller, P., **DeSantis, L.R.G.** Dietary paleoecology of bison and horses on the mammoth steppe of eastern Beringia based on dental microwear and mesowear analyses. *Palaeogeography, Palaeoclimatology, Palaeoecology* (Tentative acceptance with minor revisions)
- (59) \*\*Petherick, A.S., Reuther, J.D., Shirar, S.J., Anderson, S.L., **DeSantis, L.R.G.** § Dietary ecology of Alaskan polar bears (*Ursus maritimus*) through time and in response to Arctic climate change. *Global Change Biology* (Tentative acceptance with minor revisions)
- (58) \*\*Reside, A., **DeSantis, L.R.G.** §. Similar forms have similar functions: dental microwear variability in Tasmanian devils (*Sarcophilus harrisi*). *Journal of Mammalogy* (Tentative acceptance with minor revisions; a special edited volume)
57. Braun, D., Faith, J. T., Douglass, M., Davies, B., Power, M., Aldeias, V., Conard, N., Cutts, R., **DeSantis, L.**, Dupont, L., Esteban, I., Kandel, A., Levin, N., Luyt, J., Parkington, J., Pickering, R., Quick, L., Sealy, J., Stynder, D. In Press. Ecosystem engineering in the Quaternary of the West Coast of South Africa. *Evolutionary Anthropology*

**2020**

56. Tung, T.A. §, Dillehay, T.D., Feranec, R.S., **DeSantis, L.** § 2020. Early specialized maritime and maize economies on the north coast of Peru. *PNAS*  
(<https://www.pnas.org/content/early/2020/12/01/2009121117/tab-article-info>)  
Featured in *PNAS News*, *Archaeology*, *Sputnik News*, and in *Research News @ Vanderbilt*. Earlier work was featured in *Vanderbilt News* and *myVU*.
55. Faith, J. T., Braun, D., Davies, B., **DeSantis, L.**, Douglass, M., Esteban, I., Hare, V., Levin, N., Luyt, J., Pickering, R., Power, M., Sealy, J., Stynder, D. 2020. Ecometrics and the paleoecological implications of Pleistocene faunas from the western coastal plains of the Cape Floristic Region, South Africa. *Journal of Quaternary Science* (<https://doi.org/10.1002/jqs.3247>)

54. Louys, J.<sup>§</sup>, Zaim, Y., Rizal, Y., Aswan, M.P., Trihascaryo, A., Price, G.J., **\*\*Petherick, A., \*\*Scholtz, E., DeSantis, L.R.G.**<sup>§</sup> 2020. Sumatran orangutan diets in the Late Pleistocene as inferred from dental microwear texture analysis. *Quaternary International* (<https://doi.org/10.1016/j.quaint.2020.08.040>)
53. Janis, C.M., Figueirido, B., **DeSantis, L.R.G.**, Lautenschlager, S. 2020. An eye for a tooth: *Thylacosmilus* was not a marsupial “saber-tooth predator.” *Peer J* 8:e9346 (<https://doi.org/10.7717/peerj.9346>)  
Featured in *National Geographic*, *Smithsonian*, and global news coverage, including *Atlas Obscura* and the *New York Times*. Also featured in *Research News @ Vanderbilt*.
52. **DeSantis, L.R.G.**<sup>§</sup>, Sharp, A.C., Schubert, B.W., Colbert, M.W., Wallace, S.C., Grine, F.E. 2020. Clarifying relationships between cranial form and function in tapirs, with implications for the dietary ecology of early hominins. *Scientific Reports* 10:8809 (<https://doi.org/10.1038/s41598-020-65586-w>)  
Featured in *Notizie Scientifiche*, *RPP Noticias*, and *Research News @ Vanderbilt*.
51. **DeSantis, L.R.G.**<sup>§</sup>, Feranec, R.S., Fox-Dobbs, K., **\*\*Crites, J.M.**, Farrell, A.B., Harris, J.M., Takeuchi, G.T., Cerling, T.E. 2020. Reply to Van Valkenburgh *et al.* The validity of stable isotope data from tooth enamel to interpreting the ecology of ancient predators and their prey. *Current Biology* 30:R151-R152 (<https://doi.org/10.1016/j.cub.2020.01.011>)
50. **\*\*Scholtz, E.J., DeSantis, L.R.G.**<sup>§</sup> 2020. Invasive species, not environmental changes, restrict the population and geographical range of the quokka (*Setonix brachyurus*). *Journal of Zoology* 311:106-115 (<https://doi.org/10.1111/jzo.12765>)  
Featured in *UPI*, *Futurity*, *The Epoch Times*, and more, including *Research News @ Vanderbilt*. Also, this work is being featured on a forthcoming podcast of *The Wild Life*. See the associated blog we wrote, published in the *Journal of Zoology Blog*.
49. **\*Smith, G.J., DeSantis, L.R.G.**<sup>§</sup> 2020. Extinction of North American *Cuvieronius* (Mammalia, Proboscidea, Gomphotheriidae) driven by dietary resource competition with sympatric mammoths and mastodons. *Paleobiology* 46:41-57 (<https://doi.org/10.1017/pab.2020.7>)

## 2019

48. Lundelius, E.L., Thies, K.J., Graham, R.W., Bell, C.J., **\*Smith, G.J., DeSantis, L.R.G.** 2019. Proboscidea from the Big Cypress Creek Fauna, Deweyville Formation, Harris County, Texas. *Quaternary International* 530-531:59-68 (<https://doi.org/10.1016/j.quaint.2019.11.018>)
47. **DeSantis, L.R.G.**<sup>§</sup>, **\*\*Crites, J.M.**, Feranec, R.S., Fox-Dobbs, K., Farrell, A.B., Harris, J.M., Takeuchi, G.T., Cerling, T.E. 2019. Causes and consequences of Pleistocene megafaunal extinctions as revealed from Rancho La Brea mammals. *Current Biology* 29: 2488-2495 (<https://doi.org/10.1016/j.cub.2019.06.059>)  
Featured in *National Geographic*, *CNN*, *Smithsonian*, *LA Times*, *Ars Technica*, and numerous other news outlets. Also, see the streaming television documentaries featuring this work, produced by *Curiosity Stream*, including: *Saber-tooth Brawl* (<https://curiositystream.com/video/3144/saber-tooth-brawl>), *Lucha Entre Dientes De Sable* (<https://curiositystream.com/video/3150/lucha-entre-dientes-de-sable?playlist=>) and *Top Science Stories of 2019* (<https://app.curiositystream.com/video/3158>). Also, featured in *myVU*.
46. \*Larmon, J.T., McDonald, H.G., Ambrose, S., **DeSantis, L.R.G.**, Lucero, L.J. 2019. A year in the life of a giant ground sloth during the Last Glacial Maximum in Belize. *Science Advances* 5 (2): eaau1200 (<https://doi.org/10.1126/sciadv.aau1200>)  
Featured in *Business Insider*, *Fox News*, *Smithsonian*, *USA Today*, and numerous other news outlets across the globe.
45. Stydner, D.D.<sup>§</sup>, **DeSantis, L.R.G.**, **\*Donohue, S.L.**, Schubert, B.W., Ungar, P.S. 2019. A Dental Microwear Texture Analysis of the Early Pliocene African Ursid *Agrotherium africanum* (Mammalia, Carnivora, Ursidae). *Journal of Mammalian Evolution* 26: 505-515 (<https://doi.org/10.1007/s10914-018-9436-y>)

## 2018

44. **DeSantis, L.R.G.**, Fortelius, M., Grine, F., Janis, C., Kaiser, T.M., Merceron, G., Purnell, M.A., Schulz-Kornas, E., Saarinen J., Teaford, M., Ungar, P.S., Žliobaitė, I.<sup>§</sup> 2018. The phylogenetic signal in tooth wear: what does it mean? *Ecology and Evolution* (<https://doi.org/10.1002/ece3.4541>)
43. **DeSantis, L.R.G.**<sup>§</sup>, **\*\*Alexander, J.**, **\*Biedron, E.M.**, **\*Johnson, P.S.**, **\*\*Frank, A.S.**, **\*\*Martin, J.M.**, **\*\*Williams, L.** 2018. Effects of climate on dental mesowear of extant koalas and two broadly distributed kangaroos throughout their geographic range. *PLoS ONE* 13(8): e0201962. (<https://doi.org/10.1371/journal.pone.0201962>)

Featured in [EveryONE](#), PLoS ONE's Blog, [News Channel 5](#), and [Research News @ Vanderbilt](#).

42. \*Tanis, B.P., **DeSantis, L.R.G.**, Terry, R.C. 2018. Dental microwear textures across cheek teeth in canids: implications for dietary studies of extant and extinct canids. *Palaeogeography, Palaeoclimatology, Palaeoecology* 508: 129-138 (<https://doi.org/10.1016/j.palaeo.2018.07.028>)
41. \***Bradham, J.**, **DeSantis, L.R.G.** §, Jorge, M.L.S.P., Keuroghlian, A. 2018. Dietary variability of extinct tayassuids and modern white-lipped peccaries (*Tayassu pecari*) as inferred from dental microwear and stable isotope analysis. *Palaeogeography, Palaeoclimatology, Palaeoecology* 499: 93-101 (<https://doi.org/10.1016/j.palaeo.2018.03.020>)
40. \*Tune, J.W., Waters, M.R. §, Schmallec, K.A., **DeSantis, L.R.G.**, Kamenove, G. 2018. Assessing the proposed pre-last glacial maximum human occupation of North America at Coats-Hines-Litchy, Tennessee, and other Sites. *Quaternary Science Reviews* 186: 47-58 (<https://doi.org/10.1016/j.quascirev.2018.02.018>)
39. \***Smith, G.J.**, **DeSantis, L.R.G.** § 2018. Dietary ecology of Pleistocene mammoths and mastodons as inferred from dental microwear textures. *Palaeogeography, Palaeoclimatology, Palaeoecology* 492: 10-25 (<https://doi.org/10.1016/j.palaeo.2017.11.024>)

## 2017

38. Green, J.L. §, **DeSantis, L.R.G.**, \***Smith, G.J.** 2017. Regional variation in the browsing diet of Pleistocene *Mammot americanum* (Mammalia, Proboscidea) as recorded by dental microwear textures. *Palaeogeography, Palaeoclimatology, Palaeoecology* 487: 59-70. (<https://doi.org/10.1016/j.palaeo.2017.08.019>)  
Featured in [Scientific American](#).
37. **DeSantis, L.R.G.** §, Patterson, B.D. 2017. Dietary behaviour of man-eating lions as revealed by dental microwear textures. *Scientific Reports* 7: 904 (<https://www.nature.com/articles/s41598-017-00948-5>)  
Featured in [Science](#) and 65+ news outlets including [National Geographic](#), [Smithsonian](#), [Discover](#), [Popular Science](#), [Newsweek](#), [The Washington Post](#), [Chicago Tribune](#), [The Telegraph \(India\)](#) and numerous other radio (e.g., [Voice of America](#), [BBC](#), [Futureproof](#), live-news radio), print, and TV shows ([The Daily Planet](#), Discovery Channel in Canada). Also featured in [Research News @ Vanderbilt](#).
36. **DeSantis, L.R.G.** §, \*\***Hedberg, C.** 2017. Stable isotope ecology of the koala (*Phascolarctos cinereus*). *Australian Journal of Zoology* 64: 343-349 (<https://doi.org/10.1071/ZO16057>)
35. Badgley, C., Smiley, T.M., Davis, E.B., **DeSantis, L.R.G.**, Fox, D.L., Hopkins, S.B., Jezkova T., Matocq, M.D., Matzke, N., McGuire, J.L., Mulch, A., Riddle, B.R., Roth, V.L., Samuels, J.X., Strömberg, C.A.E., Terry, R., Yanites, B.J. 2017. Biodiversity and topographic complexity: modern and geohistorical perspectives. *Trends in Ecology and Evolution* 32: 211–226 (<http://dx.doi.org/10.1016/j.tree.2016.12.010>)
34. **DeSantis, L.R.G.** §, DeSantis, D.T. 2017. Experimenting with extinction: A multi-disciplinary investigation into ancient cat extinctions. *The Science Teacher* 84 (2): 49-55  
Published in the special evolution themed issue in honor of Darwin Day.
33. **DeSantis, L.R.G.** §, Tseng, J., Liu, J. \*\***Hurst, A.**, Schubert, B.W., Jiangzuo, Q. 2017. Assessing niche conservatism using a multi-proxy approach: dietary ecology of extinct and extant spotted hyenas. *Paleobiology* 43: 286-303 (<https://doi.org/10.1017/pab.2016.45>)
32. **DeSantis, L.R.G.** §, Field, J.H., Wroe, S. Dodson, J. 2017. Dietary responses of Sahul (Pleistocene Australia-New Guinea) megafauna to climate and environmental change. *Paleobiology Letters - Rapid Communications* 43: 181-195 (<https://doi.org/10.1017/pab.2016.50>)  
Rapid Communications are reserved for papers that represent "non-incremental research advancements of broad interdisciplinary interest." Featured in [Forbes](#), [Scientific American](#), [Smithsonian](#) and other news outlets. Also, featured in [Research News @ Vanderbilt](#).
31. \*\***Hedberg, C.**, **DeSantis, L.R.G.** § 2017. Dental microwear texture analysis of extant koalas: clarifying causal agents of microwear. *Journal of Zoology* 301: 206-214 (<http://onlinelibrary.wiley.com/doi/10.1111/jzo.12413/full>)
30. \*\***Jones, B.D.**, **DeSantis, L.R.G.** § 2017. Dietary ecology of ungulates from the La Brea tar pits in southern California: a multi-proxy approach. *Palaeogeography, Palaeoclimatology, Palaeoecology* 466: 110–127 (<https://doi.org/10.1016/j.palaeo.2016.11.019>)

## **2015-2016** (Combined years due to a one-year extended tenure clock)

29. \***Yann, L., DeSantis, L.R.G.** §, Koch, P.L., Lundelius, E.L. 2016. Dietary ecology of Pleistocene camelids: Influences of climate, environment, and sympatric taxa. *Palaeogeography, Palaeoclimatology, Palaeoecology* 461: 389–400 (<https://doi.org/10.1016/j.palaeo.2016.08.036>)
28. \*\***Jones, B.D., DeSantis, L.R.G.** § 2016. Dietary ecology of the extinct cave bear (*Ursus spelaeus*): evidence of omnivory as inferred from dental microwear textures. *Acta Palaeontologica Polonica* 61 (4): 735–741 (<http://dx.doi.org/10.4202/app.00253.2016>)
27. \*Arman, S., Ungar, P., Brown, C., **DeSantis, L.R.G.**, Schmidt, C., Prideaux, G. 2016. Minimizing inter-microscope variability in dental microwear texture analysis. *Surface Topography: Metrology and Properties* 4: 024007 (<http://iopscience.iop.org/article/10.1088/2051-672X/4/2/024007/meta>)  
Invited contribution for a special issue titled, *Exposing the past: what surfaces and their measurement can teach us about extinct species and the lives of ancient people*.
26. **DeSantis, L.R.G.** § 2016. Dental microwear textures: reconstructing diets of fossil mammals. *Surface Topography: Metrology and Properties* 4: 023002 (<http://iopscience.iop.org/article/10.1088/2051-672X/4/2/023002>)  
Invited Review Paper for a special issue titled: *Exposing the past: what surfaces and their measurement can teach us about extinct species and the lives of ancient people*.
25. **DeSantis, L.R.G.** §, Schubert, B.W., \*Schmitt-Linville, E., Ungar, P., \*Donohue, S., \*Haupt, R.J. 2015. Dental microwear textures of carnivorans from the La Brea Tar Pits, California and potential extinction implications. *Science Series of the Natural History Museum of Los Angeles County* 42: 37-52 ([https://www.researchgate.net/publication/282253545\\_Dental\\_Microwear\\_Textures\\_of\\_Carnivorans\\_from\\_the\\_La\\_Brea\\_Tar\\_Pits\\_California\\_and\\_Potential\\_Extinction\\_Implications](https://www.researchgate.net/publication/282253545_Dental_Microwear_Textures_of_Carnivorans_from_the_La_Brea_Tar_Pits_California_and_Potential_Extinction_Implications))  
Invited contribution for a special volume titled, *La Brea and Beyond: the Paleontology of Asphalt-Preserved Biotas*, in commemoration of the 100th anniversary of the Natural History Museum of Los Angeles County's excavations at Rancho La Brea. Featured in Forbes.

## **2014**

24. \***Yann, L., DeSantis, L.R.G.** § 2014. Effects of Pleistocene climates on local environments and dietary behavior of mammals in Florida. *Palaeogeography, Palaeoclimatology, Palaeoecology* 414: 370-381 (<https://doi.org/10.1016/j.palaeo.2014.09.020>)
23. Feranec, R.S. §, **DeSantis, L.R.G.** 2014. Understanding specifics in generalist diets of carnivorans by analyzing stable carbon isotope values in Pleistocene mammals of Florida. *Paleobiology* 40: 477-493 (<http://dx.doi.org/10.1666/13055>)
22. **DeSantis, L.R.G.** §, \*Haupt, R.J. 2014. Cougars' key to survival through the late Pleistocene extinction: insights from dental microwear texture analysis. *Biology Letters* 10 (4): 20140203 (<http://rsbl.royalsocietypublishing.org/content/10/4/20140203>)  
Featured in The Economist (print and on-line), and numerous other on-line, print, and radio outlets including *MSN UK*, National Geographic, *Discovery News*, ABC News (Australia), Der Spiegel, Science World Report, *BBC World Service Radio*, *Quirks & Quarks* (Radio Show, CBC), Scientific America - 60-second Science Podcast and a *National Geographic Wild* television special called Future Cats. Also, featured in Research News @ Vanderbilt and a later article posted on PBS (KCET).
21. \*\***Loffredo, L., DeSantis, L.R.G.** § 2014. Cautionary lessons from assessing dental mesowear observer variability and integrating paleoecological proxies of an extreme generalist herbivore *Cormohipparion emsliei*. *Palaeogeography, Palaeoclimatology, Palaeoecology* 395: 42-52 (<https://doi.org/10.1016/j.palaeo.2013.12.020>)

## **2013**

20. \***Donohue, S.L., DeSantis, L.R.G.** §, Schubert, B.W., Ungar, P.S. 2013. Was the giant short-faced bear a hyper-scavenger? A new approach to the dietary study of ursids using dental microwear textures. *PLoS ONE* 8: e77531 (<https://doi.org/10.1371/journal.pone.0077531>)
19. \***Yann, L.T., DeSantis, L.R.G.** §, \*Haupt, R.J., \*\***Romer, J.L., Corapi, S.E., Ettenson, D.J.** 2013. The application of an oxygen isotope aridity index to terrestrial paleoenvironmental reconstructions in Pleistocene North America. *Paleobiology* 39: 576-590 (<http://dx.doi.org/10.1666/12059>)

18. \*\***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., \*\*Velkovski, S. 2013. Is Rapoport's rule a recent phenomenon? A deep time perspective on potential causal mechanisms. *Biology Letters* 9: 20130398 (<http://rsbl.royalsocietypublishing.org/content/roybiolett/9/5/20130398.full.pdf>)
17. **DeSantis, L.R.G.** §, Scott, J.R., Schubert, B.W., \*Donohue, S.L., \*McCray, B.M., \*\*Van Stolk, C.A., \*Winburn, A.A., \*\*Greshko, M.A., \*\*O'Hara, M.C. 2013. Direct comparisons of 2D and 3D dental microwear proxies in extant herbivorous and carnivorous mammals. *PLoS ONE* 8: e71428 (<https://doi.org/10.1371/journal.pone.0071428>)
16. \*Haupt, R.J., **DeSantis, L.R.G.** §, Green, J.L., Ungar, P.S. 2013. Dental microwear texture as a proxy for diet in xenarthrans. *Journal of Mammalogy* 94: 856-866 (<http://dx.doi.org/10.1644/12-MAMM-A-204.1>)

## **2012**

15. **DeSantis, L.R.G.** §, Schubert, B.W., Scott, J.R., Ungar, P.S. 2012. Implications of diet for the extinction of saber-toothed cats and American lions. *PLoS ONE* 7: e52453 (<https://doi.org/10.1371/journal.pone.0052453>)  
Featured in *msNBC*, in addition to numerous on-line (e.g., [Huffington Post](#), [National Geographic](#)), radio (*Up all Night*, BBC; *As it Happens*, CBC) and TV media including a *National Geographic Wild* special called [Future Cats](#). The story was also featured [Research News @ Vanderbilt](#) and in a later article in the [NBC News](#), and the [Academic Minute](#).
14. Fisher, E. §, Mackey, K., Cusack, D., **DeSantis, L.**, Hartzell-Nichols, L., Lutz, J., Melbourne-Thomas, J., Meyer, R., Riveros-Iregui, D., Sorte, C., Taylor, J., White, S. 2012. Is pre-tenure interdisciplinary research a career risk? *EOS, Transactions American Geophysical Union* 93(32): 311-312 (<http://onlinelibrary.wiley.com/doi/10.1029/2012EO320004/full>)
13. **DeSantis, L.R.G.** §, \*Beavins Tracy, R.A., \*Koontz, C.S., \*Roseberry, J.C., \*Velasco, M.C. 2012. Mammalian niche conservation through deep time. *PLoS ONE* 7: e35624 (<https://doi.org/10.1371/journal.pone.0035624>)  
Featured in the [Earth Times](#), [French Tribune](#), [UPI](#), [Futurity](#), in addition to other on-line media. Also, featured in [Research News @ Vanderbilt](#).
12. Dillehay, T.D. Bonavia, D., Goodbred, S., Pino, M., Vasquez, V., Rosales Tham, T., Conklin, W., Splitsoser, J., Piperno, D., Iriarte, J., Grobman, A., Levi-Lazzaris, G., Moreira, D., Lopez, M., Tung, T.A., Titelbaum, A., Verano, J., Adovasio, J., Cummings, L., Bearez, P., Dufour, E., Tombret, O., Ramirez, M., Beavins, R., **DeSantis, L.**, Rey, I., Mink, P., Maggard, G., Franco, T. 2012. Chronology, mound-building and environment at Huaca Prieta, coastal Peru, from 13700 to 4000 years ago. *Antiquity* 86: 48-70 (<https://doi.org/10.1017/S0003598X00062451>)

## **2010-2011** (Combined years due to a one-year extended tenure clock)

11. **DeSantis, L.R.G.** § 2011. Stable isotope ecology of extant tapirs from the Americas. *Biotropica* 43: 746-754. (<http://onlinelibrary.wiley.com/doi/10.1111/j.1744-7429.2011.00761.x/full>)
10. MacFadden, B.J. §, **DeSantis, L.R.G.**, Labs Hochstein, J., Kamenov, G.D. 2010. Physical properties, geochemistry, and diagenesis of xenarthran teeth: prospects for interpreting the paleoecology of extinct species. *Palaeogeography, Palaeoclimatology, Palaeoecology* 291: 180-189 (<https://doi.org/10.1016/j.palaeo.2010.02.021>)
9. Schubert, B.W. §, Ungar, P.S., **DeSantis, L.R.G.** 2010. Carnassial microwear and dietary behaviour in large carnivorans. *Journal of Zoology* 280: 257-263 (<http://onlinelibrary.wiley.com/doi/10.1111/j.1469-7998.2009.00656.x/full>)

## *Pre-Vanderbilt Years*

8. **DeSantis, L.R.G.** §, Feranec, R.S., MacFadden, B.J. 2009. Effects of global warming on ancient mammalian communities and their environments. *PLoS ONE* 4: e5750  
Featured in *msNBC* and numerous other media outlets including [Wired](#), [Science Now](#), and [Research News](#).
7. Prideaux, G.J. §, Ayliffe, L.K., **DeSantis, L.R.G.**, Schubert, B.W., Murray, P.F., Gagan, M.K., Cerling, T.E. 2009. Extinction implications of a chenopod browse diet for a giant Pleistocene kangaroo. *PNAS* 106: 11646-11650 (<http://www.pnas.org/content/106/28/11646.full>)  
Featured in [BBC News](#) and several other on-line, print, and radio shows (including *Public Radio International*).

6. **DeSantis, L.R.G.** § 2009. Teaching evolution through inquiry-based lessons of uncontroversial science. *The American Biology Teacher* 71(2): 106-111 (<http://dx.doi.org/10.1662/005.071.0211>)
5. **DeSantis, L.R.G.** § 2009. Straight from the mouths of horses and tapirs: using fossil teeth to clarify how ancient environments have changed over time. *Science Scope* 32(5): 18-24
4. **DeSantis, L.R.G.** §, Wallace, S.C. 2008. Neogene forest from the Appalachians of Tennessee, USA: geochemical evidence from fossil mammal teeth. *Palaeogeography, Palaeoclimatology, Palaeoecology* 266: 59-68 (<https://doi.org/10.1016/j.palaeo.2008.03.032>)
3. **DeSantis, L.R.G.** §, MacFadden, B.J. 2007. Identifying forested environments in Deep Time using fossil tapirs: evidence from evolutionary morphology and stable isotopes. *Courier Forschungsinstitut Senckenberg* 258: 147-157  
Invited contribution to a Special Issue Honoring David L. Dilcher and Jack A. Wolfe titled, *Advances in Angiosperm Paleobotany and Paleoclimatic Reconstructions*. Featured in [\*Wired\*](#).
2. **DeSantis, L.R.G.** §, Bhotika, S., Putz, F.E., Williams, K. 2007. Sea-level rise and drought interactions accelerate declines on the Gulf Coast of Florida, USA. *Global Change Biology* 13: 2349-2360 (<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2486.2007.01440.x/full>)  
Featured in [\*UPI\*](#).
1. **DeSantis, L.R.G.** § 2007. Clarifying tropical cyclone activity in centuries past. *Science Teacher* 74(6): 78-84

### C. Book Chapters (Invited contributions)

#### *Vanderbilt Years*

5. **Burt, A., DeSantis, L.R.G.** § 2020. Using dental microwear to understand the dietary behavior of domestic dogs in precontact North America, in *Dogs: Archaeology Beyond Domestication*, University Press of Florida, Gainesville. (ISBN: 9780813057460).
4. **DeSantis, L.R.G.** § 2019. Commentary on Marshall et al. 1982 in *Foundations of Paleocology*, University of Chicago Press, Chicago (ISBN: 9780226618203).
3. **DeSantis, L.R.G.** § 2018. Dietary Ecology of *Smilodon* in *Smilodon: The Iconic Sabertooth*, Johns Hopkins University Press, Baltimore (ISBN: 9781421425566).
2. **DeSantis, L.R.G.** §, Dillehay, T., Goodbred, S., Feranec, R. 2017. Dietary Ecology, Stable Isotope, and Dental Microwear Texture Analysis. In *Where the Land Meets the Sea: Fourteen Millennia of Human Prehistory on the North Coast of Peru*. University of Texas Press, Austin (p.665-673; ISBN: 9781477311493)
1. Tung, T.A. §, Miller, M., **DeSantis, L.R.G.**, Sharp, E.A., **Kelly, J.** 2016. Imperial Collapse and Drought: The Bioarchaeological and Isotopic Evidence for Conflict and Changes in The Archaeology of Food and Warfare: Food Insecurity in Prehistory. University of California, Santa Barbara, Food and Warfare Volume (p.193-228; ISBN: 9783319185057)

### D. Invited Book Reviews and Non-Refereed Publications (including Op-Eds)

#### *Vanderbilt Years*

9. **DeSantis, L.R.G.** §. 2020. How many children and teachers are we willing to sacrifice to open schools again? *Tennessean* (Op-ed) July 15, 2020 (<https://www.tennessean.com/story/opinion/2020/07/15/reopening-schools-williamson-county-middle-tennessee-coronavirus/5437767002/>)
8. Scholtz, E.J., **DeSantis, L.R.G.** §. 2020. The ‘Happiest Animal in the World’ may not be so happy after all. *Journal of Zoology Blog*, February 21, 2020 (<https://jzoblog.wordpress.com/2020/02/21/the-happiest-animal-in-the-world-may-not-be-so-happy-after-all/>)
7. **DeSantis, L.R.G.** §. 2018. A school excuse and a law that changed my life: a thank you to George H.W. Bush. *Tennessean* (Op-ed) December 6, 2018 (<https://www.tennessean.com/story/opinion/2018/12/06/george-h-w-bush-and-ada-thank-you-note-opinion/2221184002/>)
6. **DeSantis, L.R.G.** §. 2017. I’m your mentor, not your mother. *Science* 358: 690 (<http://www.sciencemag.org/careers/2017/11/im-your-mentor-not-your-mother>)



5. **DeSantis, L.R.G.** §. 2014. Book review. *Megafauna: Giant Beasts of Pleistocene South America* by Richard A. Fariña, Sergio F. Vizcaino, and Gerry De Iuliis. Review by: Larisa R.G. DeSantis. *The Quarterly Review of Biology* 89: 166-167 (<http://www.journals.uchicago.edu/doi/pdfplus/10.1086/676059>)
4. **DeSantis, L.R.G.** §, Wallace, S.C. 2011. Ancient ecology and climate of the Gray Fossil Site. *Gray Fossil Site: 10 Years of Research*, pp. 21-23

#### *Pre-Vanderbilt Years*

3. **DeSantis, L.R.G.** § 2007. Reconstructing the ancient ecology of the Gray Fossil Site in Tennessee. *Now & Then* 23(1): 22-24
2. MacFadden, B. §, **DeSantis, L.R.G.** 2007. No more ivory tower: communicating geoscience to society. *Geotimes* 52: 42-43 (<http://www.geotimes.org/mar07/article.html?id=education.html>)
1. **DeSantis, L.R.G.** § 2007. *Megalodon Educator's Guide*. Florida Museum of Natural History. Gainesville, FL (available on-line: <http://ufdc.ufl.edu/UF00090933/00005>; pp.1-58)

#### **E. High-School Student Research Publications conducted at Vanderbilt:**

5. \*\*\***Reside, A., DeSantis, L.R.G.** § 2017. Stable isotope and dental microwear ecology of the arid adapted red kangaroo (*Macropus rufus*). *Young Scientist* (<https://s3.amazonaws.com/vu-wp0/wp-content/uploads/sites/16/2017/06/01142213/Reside.pdf>)
4. \*\*\***Shea, M. K., Yann, L.T., DeSantis, L.R.G.**, §Tung, T.A. 2015. Carbon and oxygen isotope analysis to document childhood diet and local vs. non-local status among African slave burials from the Grassmere Plantation, Nashville, Tennessee. *Young Scientist* 5: 42-45 (<https://www.youngscientistjournal.org/wp-content/uploads/sites/16/2015/04/Shea.pdf>)
3. \*\*\***Jiang, T., DeSantis, L.R.G.** § 2014. Dental microwear texture analysis of the Tasmanian devil: assessing variability among teeth. *Young Scientist* 4: 30-32. (<https://www.youngscientistjournal.org/wp-content/uploads/sites/16/2015/10/Dental-Microwear-Texture-Analysis-of-the-Tasmanian-Devil.pdf>)
2. \*\*\***Burgess, C., DeSantis, L.R.G.** § 2013. Stable isotope ecology of the red-necked wallaby (*Macropus rufogriseus*): clarifying species-specific responses to climate and geographic variables. *Young Scientist* 3: 28-31 (<https://www.youngscientistjournal.org/wp-content/uploads/sites/16/2015/08/Burgess.pdf>)
1. \*\*\***Kelly, J.E., DeSantis, L.R.G.**, Tung, T.A. 2012. Reconstructing climate change and food production in the ancient Peruvian Andes using stable isotope analysis. *Young Scientist* 2: 31-33 ([https://www.youngscientistjournal.org/wp-content/uploads/sites/16/2015/08/2012-05\\_article\\_kelly.pdf](https://www.youngscientistjournal.org/wp-content/uploads/sites/16/2015/08/2012-05_article_kelly.pdf))

#### **F. Research Grants**

##### *Vanderbilt Years*

**(In Review)** *Macroecology as the Bridge Between Paleobiology and Conservation*. Preproposal for a Conservation Paleobiology Working Group as part of an NSF funded RCN (Requested \$7,240). Collaborative with Dr. Melissa Pardi (Illinois State Museum), Megan Balk (University of Arizona), Catalina Tome (U. of Nebraska, Lincoln).

**2020-2023 Collaborative Research: Neotoma Paleoecology Database, a Multi-Proxy, International, Community-Curated Data Resource for Global Change Research.** EAR-Sedimentary Geology & Paleobiology, National Science Foundation (\$1,084,423 Total Amount; Vanderbilt's budget \$59,871; PI, In collaboration with lead PI Jack Williams, University of Wisconsin, Jessica Blois, University of California, Merced, Suzanne Pilaar Birch, University of Georgia, Donald Charles, Academy of Natural Sciences, Edward Davis, University of Oregon, Robert Booth, Lehigh University, Douglas Miller, Pennsylvania State University, Alison Smith, Kent State University, and others.

**2018-2022 Collaborative Research: The timing and ecology of the Late Pleistocene Megafauna at Rancho La Brea.** EAR-Sedimentary Geology & Paleobiology, National Science Foundation (\$742,323 Total Amount; Vanderbilt's budget \$142,702; PI, In collaboration with PI Julie Meachen, Des Moines University, PI Frank R. O'Keefe, Marshall University, Lead PI Wendy Binder, Loyola Marymount University, PI Emily Lindsey, Page Museum and La Brea Tar Pits, and PI John Southon, UC Irvine.

**2018-2020 NSF Postdoctoral Research Fellowship in Earth Sciences to Dr. Melissa Pardi (PI), Clarifying mammalian responses to climate change: improving niche modeling through the integration of climate and dietary information.** Division of Earth Sciences, National Science Foundation (\$174,000; Sponsor, Postdoctoral mentor of Pardi for 24 months, one of only ten awards).

- 2017-2021 Collaborative Research: Experimental assessment of dental microwear formation.** Biological Anthropology, National Science Foundation (\$324,970 Total Amount, Vanderbilt's budget \$72,548; PI, along with PI Robert Scott at Rutgers University and PI David Straight at Washington University; *Ranked 2 out of 57 proposals*).
- 2017-2019 Clarifying effects of climate change on Arctic carnivorans.** Discovery Grant, Vanderbilt University (\$49,813; PI)
- 2017-2018 Cauca Valley, a tropical Dry Corridor that facilitated the Great Biotic Interchange.** National Geographic (\$20,000; Co-PI, In collaboration with lead PI Carlos Jaramillo and several others)
- 2015-2022 CAREER: Significance of Cenozoic climate and environmental changes on the ecology and evolution of marsupials in Australia: A multi-proxy approach.** EAR-Sedimentary Geology & Paleobiology, National Science Foundation (\$511,706; PI)
- 2012-2015 Early Career: Acquisition of a White Light Confocal Microscope for Dental Microwear Texture Analysis of Ancient Mammalian Communities.** Instrumentation & Facilities, National Science Foundation (\$270,218; PI)
- 2012-2014 Clarifying the effects of climate change on Australian marsupials.** Discovery Grant, Vanderbilt University (\$49,010; PI)
- 2012-2013 Collaborative Research: Clarifying the effects of climate, habitat modification, and community composition on Australian macropodid marsupials.** Vanderbilt International Office, Vanderbilt University (\$4,500; PI)
- 2011-2012 Paleocology of Australian Marsupial Megafauna and Potential Extinction Implications.** Ralph E. Powe Junior Faculty Enhancement Award in Physical Sciences, Oak Ridge Associated Universities (\$10,000; PI)
- 2011-2013 Cathodoluminescence (CL) detector and spectrometer for earth, environmental and materials research.** Discovery Grant, Vanderbilt University (\$171,399; Co-PI, in collaboration with lead PI Guil Gualda (VU-EES), and Co-PIs Calvin Miller, Molly Miller, John Ayers, Daniel Morgan (VU-EES) and Richard Haglund (VU-Physics)).
- 2010-2013 Establishing direct links between climate, environmental change, and cultural transformations in early Peruvian civilization.** Discovery Grant, Vanderbilt University (\$92,500; Co-PI, in collaboration with Steven Goodbred (VU-EES, PI) and Tom Dillehay (VU-Anthropology, PI)).

### Grants Awarded to Graduate Students

- 2017** Larry D. Agenbroad Legacy Grants Program, Hot Springs Mammoth Site (Greg Smith, Ph.D. Student, \$500)
- 2017** Theodore Roosevelt Award, AMNH (Greg Smith, Ph.D. Student, \$1860)
- 2017** Paleontological Society (Greg Smith, EES Ph.D. Student, \$800)
- 2017** Geological Society of America Grants in Aid of Research (Eva Biedron, M.S. Student, \$1740)
- 2017** National Science Foundation Graduate Research Fellowship Program - Honorable Mention (Eva Biedron, M.S. Student)
- 2016** Geological Society of America Grants in Aid of Research (Greg Smith, Ph.D. Student, \$2500)
- 2014** Center for Latin American Studies (Jennifer Bradham, Ph.D. Student, 2014, \$2000)
- 2014** Geological Society of America Grants in Aid of Research (Jennifer Bradham, Ph.D. Student, \$2000)
- 2012** Geological Society of America Grants in Aid of Research (Lindsey Yann, Ph.D. Student, \$1992)
- 2012** Geological Society of America Grants in Aid of Research (Shelly Donohue, M.S. Student, 2012, \$2,350, Exceptional Merit Designation/Award)
- 2012** American Society of Mammalogists Grant in Aid of Research (Shelly Donohue, M.S. Student, \$1500)
- 2012** Evolving Earth Foundation Grant (Lindsey Yann, Ph.D. Student, \$3,000)
- 2011** Geological Society of America Grants in Aid of Research (Ryan Haupt, M.S. Student, \$4,000)

### Pre-Vanderbilt Years

#### University of Florida

*Reconstructing forest environments through time: evidence from stable isotopes of mammalian herbivores and floral communities in the New World* – doctoral dissertation research supported by the following grants and fellowships (excluding fellowships noted above under Honors & Awards):

- 2009** University of Florida Graduate Student Council Research Grant (\$250)
- 2005** Department of Zoology End of Year Research Award (\$700)
- 2005** Southwest Florida Fossil Club Scholarship (\$500)

*Effects of interglacial warming on ancient mammalian communities and their environments.* Supported by the following grants:

- 2007 The Florida Paleontological Society's Gary S. Morgan Student Research Award (\$500)
- 2007 The Paleontological Society - Stephen J. Gould Research Grant (\$500)
- 2007 Sigma Xi Grant-in-Aid of Research (\$400)
- 2007 American Museum of Natural History - Theodore Roosevelt Award (\$2,500)

*Effects of climate change on Australian megafauna from the late Quaternary to the Present.*

- 2007 National Science Foundation East Asia and Pacific Summer Institutes for US Graduate Students (~\$10,000)

*Ancient ecology of a Neogene forest from the Appalachians of Tennessee, USA.* Supported by the following grants:

- 2005 Geological Society of America Grant in Aid of Research (\$2,500)
- 2004 R. Jerry Britt, Jr. Paleobiology Award (\$500)

*Research Travel Grants* – presentation of research supported by the following grants:

- 2008 Ecological Society of America Travel Grant (2008; \$195)
- 2006 Society of Vertebrate Paleontology Travel Grant (2006; \$300)
- 2006, 2007 Southeastern Geological Society of America Travel Grant (~\$100 per award)
- 2005-2008 Graduate Student Association Travel Grant (\$250 per award; total of \$1000)
- 2005, 2007, 2008 College of Arts and Sciences Travel Grant (\$250 per award; total of \$750)
- 2005-2008 Department of Zoology Travel Grant (\$300-\$500 per award; total of \$1600)

## G. Invited Talks

### *Invited Talks: Departmental Colloquia & Program-Wide Seminars*

(Host institutions covered expenses including accommodations, travel, and/or honorarium, unless noted or virtual)  
I currently serve as the **Distinguished Lecturer** (representing North America, and all venues while virtual) for the Society of Vertebrate Paleontology.

### *Vanderbilt Years*

70. **2020** *Zombies, Chest Bursters, and Ghosts in the Darkness.* Vanderbilt University, Evolutionary Studies Seminar (<https://www.youtube.com/watch?v=LMcI5TsnbY4&t=12s>), virtual.
69. **2020** *A Diprotodon in the Coal Mine: Conservation Lessons from Australian Fossils.* PaleoTalks, East Tennessee State University, Paleontology Program, Virtual Seminar Series ([https://www.youtube.com/watch?v=nVQ4FEI0j6w&feature=emb\\_logo](https://www.youtube.com/watch?v=nVQ4FEI0j6w&feature=emb_logo); episode 22), virtual.
68. **2020** *Pleistocene Predators of the Tar Pits.* PaleoTalks, East Tennessee State University, Paleontology Program, Virtual Seminar Series ([https://www.youtube.com/watch?v=hO14NkqxsOM&feature=emb\\_logo](https://www.youtube.com/watch?v=hO14NkqxsOM&feature=emb_logo); episode 7), virtual.
67. **2019** *Causes and Consequences of Megafaunal Extinctions.* Kansas University, Department of Geology (Departmental Seminar), Lawrence, KS.
66. **2019** *Causes and Consequences of Megafaunal Extinctions.* Syracuse University, Department of Earth Sciences (Departmental Seminar), Syracuse, NY.
65. **2019** *Using the past to conserve the future: insights from the fossil record.* University of Chicago, Evolutionary Morphology Seminar Series (Multiple Departments), Chicago, IL.
64. **2018** *Scratching the surface: using dental microwear textures to infer dietary behavior (Dental Microwear Texture Analysis Workshop).* University of Minnesota, Department of Earth Sciences (Technical Seminar), Minneapolis, MN.
63. **2018** *Causes and Consequences of Megafaunal Extinctions.* University of Minnesota, Department of Earth Sciences (Departmental Seminar), Minneapolis, MN.
62. **2018** *Using the past to conserve the future: insights from the fossil record.* Vanderbilt University, Department of Biological Sciences, Nashville, TN.
61. **2018** *Clarifying Mammalian Responses to Climate Change and Megafaunal Extinctions during the Pleistocene.* University of Texas, Austin, Jackson School of Geosciences, Austin, TX.
60. **2018** *Clarifying Mammalian Responses to Climate Change and Megafaunal Extinctions during the Pleistocene.* Indiana University, Department of Earth and Atmospheric Sciences, Bloomington, IN.
59. **2018** *Clarifying Mammalian Responses to Climate Change and Megafaunal Extinctions during the Pleistocene.* SUNY Stony Brook, Department of Ecology and Evolution, Stony Brook, NY.

58. **2018** *Clarifying Mammalian Responses to Climate Change and Megafaunal Extinctions during the Pleistocene*. University of Alaska, Multiple Departments, Fairbanks, AK.  
(I paid expenses via a grant associated with research at the Museum of the North)
57. **2018** *Clarifying Mammalian Responses to Climate Change and Megafaunal Extinctions during the Pleistocene*. University of New Mexico, Biology Department, Albuquerque, NM.
56. **2018** *Scratching the Surface: The Nitty-gritty of Dental Microwear Texture Analysis* (Dental Microwear Workshop). University of New Mexico, Smith Lab, Albuquerque, NM.
55. **2017** *Clarifying Mammalian Responses to Climate Change and Megafaunal Extinctions during the Pleistocene*. Vanderbilt University, Department of Earth and Environmental Sciences, Nashville, TN.
54. **2016** *Clarifying mammalian responses to climate change: lessons learned from deep-time experiments*. Invited Distinguished Speaker Seminar, Department of Earth and Atmospheric Sciences, University of Wyoming, Laramie, WY.
53. **2016** *Clarifying mammalian responses to climate change: lessons learned from deep-time experiments*. Invited Seminar, Department of Earth and Atmospheric Sciences, University of Nebraska Lincoln, NE.
52. **2015** *Clarifying mammalian responses to climate change in Australia: lessons learned from deep-time experiments*. Invited Research Seminar, Western Australian Museum, Perth, Australia (\*Expenses covered as part of NSF CAREER Grant to DeSantis).
51. **2015** *Clarifying mammalian responses to climate change in Australia*. Invited Research Seminar, Australian Museum, Sydney, Australia (\*Expenses covered as part of NSF CAREER Grant to DeSantis).
50. **2015** *Revealing paleoecology, paleobiology, and mammalian responses to climate change during the Pleistocene*. Graduate Student Invited Speaker for 2015, George Washington University, Center for the Advanced Study of Hominid Paleobiology, Washington, D.C. (host also paid honorarium)
49. **2015** *Tales from the teeth of ancient mammals at La Brea and beyond*. Invited research and collections seminar, Los Angeles County Museum of Natural History, Los Angeles, CA.
48. **2015** *Clarifying mammalian responses to climate change: lessons learned from deep-time experiments*. Invited Departmental Seminar, Department of Biological Sciences, Vanderbilt University, Nashville, TN.
47. **2015** *Clarifying mammalian responses to climate change: lessons learned from deep-time experiments*. Invited Smith Lecture, Department of Earth and Environmental Sciences, University of Michigan, Ann Arbor, MI, 2015
46. **2015** *Tales from the teeth of ancient carnivores at La Brea and beyond*. Invited museum seminar, University of Michigan Museum of Paleontology, Ann Arbor, MI, 2015
45. **2014** *Dental microwear textures analysis of mammals: inferring diet one clade at a time*. Co-organized and led a half-day Dental Microwear Texture Workshop (co-hosted with Dr. Peter Ungar, University of Arkansas), Society of Vertebrate Paleontology Annual Meeting in Berlin, Germany.
44. **2014** *Ancient ecology of Pleistocene carnivores: tales from their teeth at La Brea and beyond*. Invited research and collections seminar, Los Angeles County Museum of Natural History, Los Angeles, CA.
43. **2014** *Advances in assessing mammalian responses to climate change during the Pleistocene*. Invited Seminar for the University of Oregon, Geology Department, Eugene, OR 2014
42. **2013** *The past is the key to the present*. Invited Seminar for Nashville State Community College, Nashville, TN (Student invited seminar – only one seminar speaker is selected per semester)
41. **2013** *Revealing paleoecology, paleobiology, and mammalian responses to climate change during the Pleistocene*. Invited Seminar for the Chicago Field Museum, Chicago, IL.
40. **2013** *Paleoecology, paleobiology, and mammalian responses to climate change during the Pleistocene*. Invited Seminar for the Center of Excellence in Paleontology and East Tennessee General Shale Brick Natural History Museum, Johnson City, TN.
39. **2012** *Revealing paleoecology, paleobiology, and mammalian responses to climate change during the Pleistocene*. University of Melbourne, Invited Seminar for the Department of Zoology, Melbourne, VIC, Australia (Travel expenses covered from a Vanderbilt Travel Grant with partner Institution - University of Melbourne).
38. **2012** *Revealing paleoecology, paleobiology, and mammalian responses to climate change during the Pleistocene*. Vanderbilt University, Ecology and Evolution Brown Bag Seminar, Nashville, TN.
37. **2011** *Providing a paleobiological and paleoecological context to the megafaunal extinction debate*. Rutgers University, Department of Anthropology – Invited Lecture for Rutgers SAS Signature Course Series (an endowed speakers series), ~375 Attendees, Rutgers, NJ.

36. **2011** *Revealing paleoecology, paleobiology, and mammalian responses to climate change through geochemistry and dental microwear*. University of New Mexico, Program in Interdisciplinary Biological & Biomedical Sciences, Albuquerque, NM.
35. **2010** *Stable isotopes of fossil mammals: evidence of climate change in the southeastern United States*. Australian Museum, Sydney, Australia (\*Travel expenses covered by grants to DeSantis).
34. **2010** *Stable isotopes of fossil mammals: evidence of climate change in the southeastern United States*. Flinders University, School of Biological Sciences, Adelaide, Australia

#### *Pre-Vanderbilt Years*

33. **2009** *Stable isotopes of fossil mammals: evidence of climate change in the southeastern United States*. Vanderbilt University, Department of Earth and Environmental Sciences, Nashville, TN.
32. **2009** *Paleoecology of forest environments: evidence from stable isotopes of mammalian herbivores in the New World*. University of Florida, Department of Biology Dissertation Defense Seminar, Gainesville, FL.
31. **2008** *Stable isotopes of fossil mammals: evidence of climate change in the southeastern United States*. University of Utah, Department of Geology and Geophysics, Salt Lake City, UT.
30. **2007** *Straight from the tapir's mouth: applying stable isotope analyses of extant and extinct tapirs to reconstruct forested environments*. East Tennessee State Museum of Natural History and East Tennessee State University, Johnson City, TN.

#### **Invited Talks: Public Talks and Educator Workshops**

##### *Vanderbilt Years*

29. **2020** *The Pleistocene's Most Notorious Predators: Decoding the Ecology of Ancient Predators and their Prey*. Invited Keynote Presentation (Members Only Reception Associated with PaleoFest 2020). Burpee Museum of Natural History, Rockford, IL. (<http://www.burpee.org/larisa-desantis/>)
28. **2020** *Using the Past to Conserve the Future: Why Fossils are Important*. Invited Presentation. PaleoFest 2020: Burpee Museum of Natural History, Rockford, IL.
27. **2020** *CSI Ice Age*. Invited *Tennessee Women in Science, Technology, Engineering & Research (TWISTER) STEM Conference for Girls in 9th to 12th Grade*. In collaboration with postdoctoral scholar (Dr. Melissa Pardi), Adventure Science Center, Nashville, TN.
26. **2018** *TEDx Vanderbilt: Our Ancient Past is the Key to Our Future*. Invited after auditioning. Vanderbilt University, Nashville, TN. (<https://www.youtube.com/watch?v=h8x5XtyR99Y>)
25. **2018** *Ancient Ecology: Lessons Learned from the Study of Prehistoric Animals*. Invited *New Mexico Museum of Natural History Educators Workshop*. Co-organizer as chair of Education and Outreach Committee of the Society of Vertebrate Paleontology. In conjunction with Society of Vertebrate Paleontology Annual Meeting in Albuquerque, NM.
24. **2018** *CSI Ice Age: Piecing Together Ancient Ecosystems*. Invited *Tennessee Women in Science, Technology, Engineering & Research (TWISTER) STEM Conference for Girls in 9th to 12th Grade*. In collaboration with VU undergraduate student (Elinor Scholtz), Adventure Science Center, Nashville, TN.
23. **2017** *Smilodon: The Iconic Sabertooth Cat*. Nashville Science Club. Nashville, TN.
22. **2016** *Putting STEAM Back into STEM: Challenging Students to Creatively Communicate Scientific Concepts to Public Audiences*. National Science Teacher Association hour-long presentation in collaboration with local teachers. Received rave reviews and was part of the broader impacts of two active grants. Nashville, TN.
21. **2016** *Ancient Ecology: Lessons Learned from the Study of Prehistoric Animals*. Invited *Tennessee Women in Science, Technology, Engineering & Research (TWISTER) STEM Conference for Girls in 9th to 12th Grade*. In collaboration with VU undergraduate student (Carson Hedberg), Adventure Science Center, Nashville, TN.
20. **2016** *Prehistoric Predators: Giant Sharks, Snakes, Saber-toothed Cats, and Killer Wombats*. Invited *Science Café* public talk and discussion, Adventure Science Center, Nashville, TN.
19. **2015** *Commemorative Speech Associated with the 25<sup>th</sup> Anniversary of the Americans with Disabilities Act*. Invited speech and dinner with former President George H.W. Bush (43<sup>rd</sup> President) at the Bush Library in College Station, TX (<https://www.youtube.com/watch?v=F9ggLLIDz28>).
18. **2015** *Mammalian responses to climate change: lessons learned from the fossil record*. Invited public seminar as part of the University of California Museum of Paleontology 2015 short course titled, *Global Change, Connecting Earth's Deep History to Life Today*. University of California, Berkeley, CA. (<http://www.ucmp.berkeley.edu/about/shortcourses/shortcourse15.php>)
17. **2015** *Vertebrate Paleontology in the Secondary Classroom: An Exploration into how Ancient Life and Climates Shaped the World Today*. Invited Educators Workshop at Perot Museum, Dallas, TX.

16. **2014** *Tales from the teeth of ancient carnivores at La Brea and beyond*. Invited Evening Public Lecture, Page Museum at the La Brea Tar Pits, Los Angeles, CA.

#### *Pre-Vanderbilt Years*

15. **2009** *Paleoecology of highly fossiliferous tapir localities in the southeastern United States*. Florida Paleontological Society - Invited Award Presentation, Gainesville, FL.
14. **2008** *Using Megalodon - the largest shark that ever lived - to engage students in science*. Society of Vertebrate Paleontology Teachers Workshop, Cleveland, OH.
13. **2008** *The past as a key to the present: using fossil mammal teeth to understand climate change*. Utah Museum of Natural History, Salt Lake City, UT.
12. **2007** *Teaching evolution without mentioning the e-word*. Society of Vertebrate Paleontology Teachers Workshop, Austin, TX.
11. **2006** *Reconstructing past environments: utilizing fossil teeth to infer ancient ecology*. Florida Museum of Natural History – Science Sunday Public Talk, Gainesville, FL.
10. **2006** *Reconstructing past environments: utilizing chemistry to infer ancient ecology*. Southwest Florida Fossil Club - Invited Award Presentation, Punta Gorda, FL.

#### **Invited Talks: Panels, Workshops, and Conferences (without published abstracts)**

##### *Vanderbilt Years*

9. **2017** *Clarifying mammalian responses to climate change and megafaunal extinctions*. Presentation as part of an invited NSF sponsored workshop, PACE Workshop, Integrating Paleoecology and Population and Community Ecology, Winter Harbor, ME.
8. **2013** *Paleoecology and paleoclimates through time*. Invited presentation as part of the National Evolutionary Synthesis Center Catalysis Meeting – Integrating historical biogeography and phylogeography with the fossil record and landscape history, Durham, NC.
7. **2013** *Reflection, Revision, and Regeneration*. Invited talk as part of the *Lessons from the Cumberland Project: Teaching Sustainability across the Curriculum* session during the Celebration of Teaching Symposium at Vanderbilt University, Nashville, TN.
6. **2012** *Stable Isotope Workshop: paleoecology and paleoenvironments through time*. Archaeological Sciences of the Americas Symposium Workshop, Invited Panel Presentation, Nashville, TN.
5. **2011** *How to land a faculty position: an interactive workshop featuring recent hires*. Society of Vertebrate Paleontology, Annual Meeting – Women in Paleontology Luncheon, Invited Panel Presentation, Las Vegas, NV.
4. **2011** *Straight from the tapir's mouth: revealing paleoecology, paleobiology, and mammalian responses to climate change*. Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS) Symposium – Interdisciplinary invited workshop (32 participants selected from 200+ applicants, globally) for recent PhDs with a focus on climate change research. Denver, CO.
3. **2010** *Integrative and multidisciplinary research in paleobiology*. Society of Vertebrate Paleontology, Annual Meeting, Pittsburgh, PA 2010 – Women in Paleontology Luncheon – Invited Panel Presentation (1 of 6 women invited from the SVP).
2. **2010** *Ancient ecology and climate of the Gray Fossil Site*. Gray Fossil Site Symposium, Johnson City, TN.

##### *Pre-Vanderbilt Years*

1. **2006** *Front-end evaluation of a shark exhibit*. Florida Association of Museums, Gainesville, FL.

**I. Published Abstracts** (First author presented, unless noted; \*=graduate student or postdoc, \*\*=undergraduate student, \*\*\*=high school student, **bold**=current/former lab member)

#### **Invited Symposia, Conference, and Keynote Talks**

##### *Vanderbilt Years*

159. **DeSantis, L.**, Feranec, R., Southon, J., Binder, W., \*Cohen, J., Farrell, A., Lindsey, E., Meachen, J., O'Keefe, F.R., Takeuchi, G. 2020. More tools and isotopes are better than one: clarifying the ecology of ancient mammals at Rancho La Brea and Beyond. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; invited oral presentation, Dietary Reconstruction Symposium)

158. **DeSantis, L.** 2019. Go Predators: Decoding the Ecology of Ancient Predators and their Prey. *Tennessee Academy of Sciences, Program and Abstracts Book 2019* (Tennessee Academy of Sciences, Columbia, TN; Invited Keynote Speaker, the only keynote talk at the meeting)
157. **DeSantis, L.**, \*\*Saunders, A., Coulson, G., Dortch, J. 2019. Droughts kill: the paleoecology of a Late Pleistocene mass death assemblage (Lancefield Swamp) in Australia with implications for today. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2019* (Society of Vertebrate Paleontology, Brisbane, Australia; invited oral presentation, co-organizer and moderator of special symposium titled, *Quaternary Extinctions in the Asia-Pacific: Causes and Consequences*)
156. **DeSantis, L.R.G.** 2018. Integrating and validating paleoecological tools. *Advances in Paleoecology: 2nd Lembersky Conference in Human Evolutionary Studies 2018 Program* (Invited Conference; New Brunswick, NJ; Plenary Talk)
155. **DeSantis, L.R.G.** 2018. Clarifying the ecology of Pleistocene predators and their prey from the La Brea Tar Pits and beyond. *CANQUA/AMQUA 2018 Program* (Joint meeting of the Canadian and American Quaternary Associations; Ottawa, Canada; Plenary Talk)
154. **DeSantis, L.R.G., Yann, L.T.** 2017. Assessing individual dietary variability and niche conservatism in extinct mammals using stable carbon isotopes. *Biogeochemical Approaches in Paleobiology and Paleoecology: Geological Society of America Short Course sponsored by the Paleontology Society* (Geological Society of America, Seattle, WA; invited oral presentation)
153. **DeSantis, L.**, Coulson, G., \*Biedron, E., Yann, L., \*Smith, G., Death, C., Garnick, S., \*\*Kumar, A., \*\*Reat, E., \*\*\*Reside, A., \*\*Scholtz, E., Wilson, M. 2017. Dietary ecology and consequences of drought events on extant macropods: implications for conservation and palaeoecological reconstructions. *12th International Mammalogical Congress Program and Abstracts Book* (IMC, Perth, Australia; invited oral presentation)
152. **DeSantis, L.R.G.** 2016. Mammalian responses to climate change during the Late Pleistocene in southern California: lessons learned from the survivors of the Late Pleistocene Megafaunal Extinction. *Geological Society of America Abstracts with Programs 2016* (Geological Society of America, Denver, CO; invited oral presentation)
151. **DeSantis, L.** 2015. Mammalian responses to climate change: lessons learned from both "deep-time" experiments and modern ecological studies. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2015* (Society of Vertebrate Paleontology, Dallas, TX; invited oral presentation)
150. **DeSantis, L.** 2015. Dietary ecology and potential extinction implications of marsupial carnivores. *15th Conference on Australasian Vertebrate Evolution, Palaeontology and Systematics Program and Abstracts Book 2015* (CAVEPS, Alice Springs, Australia; invited oral presentation)
149. **DeSantis, L.R.G.**, Schubert, B.W., Field, J., Prideaux, G.J., Wroe, S., Ungar, P.S. 2011. Revealing palaeoecology through geochemistry and microwear. *13th Conference on Australasian Vertebrate Evolution Palaeontology and Systematics Program and Abstracts Book 2011* (CAVEPS, Perth, Australia, 2011– Invited Keynote Speaker; oral presentation)
148. **DeSantis, L.R.G.** 2011. Inferring the ecology of extant and extinct Australian marsupials using stable isotopes and dental microwear texture analysis. *The 91st Annual Meeting of the American Society of Mammalogists Abstracts* (American Society of Mammalogists/Australian Mammal Society, Portland, OR; invited oral presentation)
147. **DeSantis, L.R.G.**, Schubert, B.W. 2010. The combined use of stable isotopes and dental microwear texture analysis to decipher the paleoecology of Australian marsupials. *Journal of Vertebrate Paleontology* 29: 81A (Society of Vertebrate Paleontology, Pittsburgh, PA; invited oral presentation)
146. **DeSantis, L.R.G.** 2009. Effects of climate change on Australian megafauna during the Pleistocene: evidence from stable isotopes of herbivorous marsupials at Cuddie Springs. *Journal of Vertebrate Paleontology* 29: 87A (Society of Vertebrate Paleontology, Bristol, UK; Selected to participate in the Romer Award Session; oral presentation)

#### *Pre-Vanderbilt Years*

145. **DeSantis, L.R.G.**, Wallace, S.C. 2008. Paleoecology of highly fossiliferous tapir localities in the southeastern United States. *Southeastern Vertebrate Paleontology Abstracts* (Southeastern Association of Vertebrate Paleontology, Johnson City, TN; invited oral presentation)
144. **DeSantis, L.R.G.**, Wallace, S.C. 2006. Evidence of a forest refugium at a Neogene fossil site, Gray, TN. *Geological Society of America Abstracts with Programs* 37: 85 (Southeastern Geological Society of America, Knoxville, TN; invited oral presentation)

## Conference Presentations

### Vanderbilt Years

143. **DeSantis, L.** 2020. Moving beyond the Present when inferring ecosystems of the past: cautionary lessons from the fossil record. *Geological Society of America 2020 Connects Online* (virtual; oral presentation).
142. **\*Pardi, M., DeSantis, L.** 2020. Complementary approaches to inferring Late Pleistocene niches: uniting geochemical and conservation tools. *Geological Society of America 2020 Connects Online* (virtual; oral presentation).
141. **\*Petherick, A.,** Reuther, J., Anderson, S., Shirar, S., **DeSantis, L.** 2020. Dietary behavior of Alaskan polar bears (*Ursus maritimus*) in response to arctic warming, as inferred from past (~1Ka) and present specimens via dental microwear textures. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; oral presentation)
140. **\*Pardi, M., DeSantis, L.** 2020. Flexible diets among grazing-adapted herbivores over the past seven million years. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; oral presentation)
139. **\*Kelly, A., Miller, J., DeSantis, L.,** Wooller, M.J., Seaton, C.T., Drunkenmiller, P.S. 2020. When grazers didn't just eat grass: dietary preferences of bison and horse in northern Alaska. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; oral presentation)
138. Janis, C., Figueirido, B., **DeSantis, L.,** Lautenschlager, Stephen. 2020. An eye for a tooth: Was *Thylacosmilus* really a 'marsupial sabertooth' predator? *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; poster presentation)
137. DeSantis, D., **DeSantis, L.** 2020. Improving scientific literacy through the exploration and manipulation of data from extant and extinct mammals. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; poster presentation, Education & Outreach Session)
136. **\*\*Davis, M, \*\*Szymanski, K., \*\*Fuster, J., \*Cohen, J., DeSantis, L.,** Lindsey, E., Meachen, J., O'Keefe, Southon, J. Binder, W. 2020. Taphonomic variation among pits at Rancho La Brea indicate little change in depositional environment through the end of the Pleistocene. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; selected Colbert Poster Prize contender)
135. **\*Cohen, J., \*\*Noriega, N., \*\*Pitcher, E., Lindsey, E., DeSantis, L.,** Meachen, J., O'Keefe, Southon, J. Binder, W. 2020. Taphonomic variation among pits at Rancho La Brea indicate little change in depositional environment through the end of the Pleistocene. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; poster presentation)
134. Binder, W., **\*Cohen, J., Meachen, J., O'Keefe, F.R., Lindsey, E., DeSantis, L.,** Southon, J. 2020. Rancho La Brea 'Tough Times' from the Bottom Up: Climate Change Affects Morphology, Ecology, and Taphonomy. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; oral presentation)
133. **\*\*Baker, J.,** Meachen, J., **DeSantis, L.** 2020. Dietary behavior of wolverines from Natural Trap Cave (Wyoming) as inferred from dental microwear texture analysis. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2020* (Society of Vertebrate Paleontology, virtual; poster presentation)
132. Pardi, M.I., **DeSantis, L.** 2019. Clarifying climate's role in megafaunal extinction through niche modeling. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2019* (Society of Vertebrate Paleontology, Brisbane, Australia; oral presentation)
131. Cohen, J., **DeSantis, L.,** Lindsey, E., Meachen, J., O'Keefe, F.R., Southon, J., Binder, W.J. 2019. Stability of dental mesowear scores throughout the Late Pleistocene in large ungulates from Rancho La Brea. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2019* (Society of Vertebrate Paleontology, Brisbane, Australia; oral presentation)
130. Meachen, J., **\*Cohen, J., \*Pardi, M.I., \*\*Hall, E.,** Binder, W., O'Keefe, F.R., Southon, J., Lindsey, E., Fuller, B., **DeSantis, L.** 2019. The late Quaternary ecological evolution of coyotes evidenced from Rancho La Brea. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2019* (Society of Vertebrate Paleontology, Brisbane, Australia; oral presentation)
129. **\*Tanis, B.P., DeSantis, L.R.G.,** Terry, R.C. 2019. Dogs, death, and dietary breadth: the link between species duration and dietary specialization in canids. *Geological Society of America Abstracts with Programs*. Vol. 51 (Phoenix, AZ; oral presentation).
128. **\*Cohen, J.E., DeSantis, L.R.G.,** Lindsey, E., Meachen, J., O'Keefe, R.F., Southon, J., Binder, W.J. 2019. Stability of dental mesowear scores throughout the Late Pleistocene in large ungulates from Rancho La Brea. *Geological Society of America Abstracts with Programs*. Vol. 51 (Phoenix, AZ; oral presentation).



127. \*\*Noriega, N.L., Pitcher, E., \*Cohen, J.E., \*\*Morado, M., \*\*Yager, A., Lindsey, E., Meachen, J., O'Keefe, F.R., **DeSantis, L.R.G.**, Binder, W. 2019. A stone's throw through time: taphonomic variation between pits at Ranch La Brea. *Geological Society of America Abstracts with Programs*. Vol. 51 (Phoenix, AZ; poster presentation).
126. \*Kelly, A., Miller, J.H., **DeSantis, L.R.G.** 2019. Survival of the flexible? A comparison of dietary strategies between Late Pleistocene Beringian bison and horses. *Geological Society of America Abstracts with Programs*. Vol. 51 (Phoenix, AZ; oral presentation).
125. \*Pardi, M.I., **DeSantis, L.** 2019. A multi-proxy approach to advance our understanding of niches in fossil mammals. *Program and Abstracts 20<sup>th</sup> Meeting, International Union for Quaternary Research (INQUA)*, Dublin, Ireland: O-3180; oral presentation)
124. \*Pardi, M.I., **DeSantis, L.** 2019. Specialist and generalist herbivore strategies across scales in the fossil record. *Program and Abstracts 99<sup>th</sup> Annual Meeting: 98*, (American Society of Mammalogists, Washington, D.C.; oral presentation)
123. \*Burt, A.A., **DeSantis, L.R.G.** 2019. Unlikely allies: modern wolves and the diets of pre-contact domestic dogs on the North American Plains and Rocky Mountains. *Annual 84<sup>rd</sup> Meeting of the Society for American Archaeology*. (Albuquerque, NM; oral presentation).
122. Scott, R.S., Boss, O., **DeSantis, L.R.G.**, Marcil, C., Ross, C., Schwartz, A., Wright, B.W., Wright, K.A., Van Casteren, A., Strait, D.S. 2019. Assessment of dental microwear formation using a capuchin model: grit versus diet. *American Journal of Physical Anthropology* 168, 223-223 (American Society of Physical Anthropology, Cleveland, OH; invited poster presentation)
121. Merceron, G., **DeSantis, L.R.G.**, Ungar, P.S. 2019. Diet, grit, and dental microwear textures: the facts. *American Journal of Physical Anthropology* 168, 164-165 (American Society of Physical Anthropology, Cleveland, OH; invited poster presentation)
120. **DeSantis, L.R.G.**, Teaford, M.F., Fogaca, M.D. 2019. Impacts of grit on dental microwear formation: a time series approach. *American Journal of Physical Anthropology* 168, 57-57 (American Society of Physical Anthropology, Cleveland, OH; invited poster presentation)
119. \*Burt, A.A., **DeSantis, L.R.G.** 2019. Zooarchaeology analysis and contending with variation in natural history collections. *Indiana Academy of Science 134<sup>th</sup> Annual Meeting*. (Indianapolis, IN; poster presentation).
118. \*Burt, A.A., **DeSantis, L.R.G.** 2018. Using dental microwear texture analysis to investigate the scavenging behavior of late-prehistoric domestic dogs in North America. *Geological Society of America Abstracts with Programs*. Vol. 50 (Indianapolis, IN; poster presentation).
117. **DeSantis, L.R.G.**, Shaw, C.A. 2018. Sabertooth cats with toothaches: impacts of dental injuries on feeding behavior in Late Pleistocene *Smilodon fatalis* (Mammalia, Felidae) from Rancho La Brea (Los Angeles, California). *Geological Society of America Abstracts with Programs*. Vol. 50 (Indianapolis, IN; oral presentation). [Selected as an abstract to publicize by the Geological Society of America.](#)
116. \*Kelly, A., Miller, J.H., **DeSantis, L.R.G.** 2018. Niche partitioning between Late Pleistocene Beringian bison and horses: new insights regarding dietary behavior of herbivorous ungulates across space and through time. *Geological Society of America Abstracts with Programs*. Vol. 50 (Indianapolis, IN; oral presentation).
115. \*\*Martin, J.M., **DeSantis, L.R.G.** 2018. Four or more is a crowd: assessing competition between Australian dasyurids via dental microwear texture analysis. *Geological Society of America Abstracts with Programs*. Vol. 50 (Indianapolis, IN; oral presentation).
114. \*\*Petherick, A., **DeSantis, L.R.G.** 2018. Dietary behavior of polar bears (*Ursus maritimus*) during prehistoric and historic times in Alaska as revealed from dental microwear textures. *Geological Society of America Abstracts with Programs*. Vol. 50 (Indianapolis, IN; poster presentation).
113. \*\*Reside, A., **DeSantis, L.R.G.** 2018. Similar forms yield similar functions: assessing dental microwear variability of multiple carnassial-like teeth in Tasmanian devils (*Sarcophilus harrisi*). *Geological Society of America Abstracts with Programs*. Vol. 50 (Indianapolis, IN; oral presentation).
112. \*\*Scholtz, E., **DeSantis, L.R.G.** 2018. Using dietary ecology to examine the impacts of non-native species on Australian marsupial herbivores. *Geological Society of America Abstracts with Programs*. Vol. 50 (Indianapolis, IN; poster presentation).
111. \*Biedron, E., **DeSantis, L.** 2018. A multiproxy approach to tracking aridity across Australian landscapes using brushtail possums (Marsupialia: Phalangeridae: *Trichosurus*). *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2018* (Society of Vertebrate Paleontology, Albuquerque, NM; oral presentation)

110. Binder, W., **DeSantis, L.**, Lindsey E., Meachen J., O'Keefe F. 2018. Training the next generation of scientific researchers in both research methods and public communication at Rancho La Brea—a melting pot of current and ancient diversity. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2018* (Society of Vertebrate Paleontology, Albuquerque, NM; Education & Outreach poster presentation)
109. **DeSantis, L.**, Price, G., Archer, M. 2018. Aridification as a potential driver of the extinction of the marsupial lion in Australia. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2018* (Society of Vertebrate Paleontology, Albuquerque, NM; oral presentation) Selected as an abstract to publicize by the Society of Vertebrate Paleontology; featured in *Nature*.
108. **Hall, E.**, **DeSantis, L.** 2018. Dietary ecology of coyotes and dire wolves at Maricopa Brea during the Late Pleistocene as inferred from dental microwear texture analysis. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2018* (Society of Vertebrate Paleontology, Albuquerque, NM; selected Colbert Poster Prize contender)
107. **Scholtz, E.**, **DeSantis, L.** 2018. Investigating impacts of non-native species on Australian marsupial dietary ecology across space and through time. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2018* (Society of Vertebrate Paleontology, Albuquerque, NM; oral presentation)
106. **Tanis, B.**, **DeSantis, L.**, Terry, R.C. 2018. Categorizing the diet of two hypocarnivorous borophagine canids, *Cynarctoides lemur* and *Phlaocyon latidens*. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2018* (Society of Vertebrate Paleontology, Albuquerque, NM; poster presentation)
105. **DeSantis, L.R.G.**, Coulson, G., **Biedron, E.M.**, **Hedberg, C.** 2018. The present is the key to the past: assessing how extant marsupials track their environment to clarify mammalian responses to climate change. *International Paleontology Congress Abstracts with Programs*. (Paris, France; oral presentation; co-chair of session).
104. **Burt, A.A.**, **DeSantis, L.R.G.** 2018. The diet of dogs: dental microwear texture analysis to interpret the human-canine connection in prehistoric North America. *Annual 83<sup>rd</sup> Meeting of the Society for American Archaeology*. (Washington, D.C.; oral presentation).
103. **DeSantis, L.R.G.**, Coulson, G., **Biedron, E.M.**, **Yann, L.T.**, **Smith, G.J.**, **Scholtz, E.**, **Death, C.**, **Garnick, S.**, **Reside, A.** 2018. The necessity of understanding the present to clarify the past: determining the effects of diet and environment on the dental microwear of kangaroos. *Southeastern Geological Society of America Abstracts with Programs*. (Knoxville, TN; oral presentation).
102. **Saunders, A.K.**, **DeSantis, L.R.G.** 2018. Dietary ecology of the local Lancefield fauna in Victoria, Australia: Did the kangaroos die from a massive drought? *Southeastern Geological Society of America Abstracts with Programs*. (Knoxville, TN; oral presentation).
101. **Smith, G.J.**, **DeSantis, L.R.G.** 2018. Spatial and temporal variability in North American gomphothere diet as inferred from dental microwear textures. *Southeastern Geological Society of America Abstracts with Programs*. (Knoxville, TN; oral presentation).
100. **Scholtz, E.**, **DeSantis, L.** 2018. Using space for time substitutions and comparisons between fossil and modern specimens to assess impacts of European arrival on marsupial mammals. *Southeastern Geological Society of America Abstracts with Programs*. (Knoxville, TN; oral presentation).
99. **Biedron, E.**, **DeSantis, L.** 2018. Assessing how possums record their local diet and environment via stable isotopes and dental microwear textures with implications for paleoecological analyses. *Southeastern Geological Society of America Abstracts with Programs*. (Knoxville, TN; oral presentation).
98. **Smith, G.**, **DeSantis, L.** 2017. Gomphothere paleoecology in North America as inferred from stable isotope analysis. *Geological Society of America Abstracts with Programs. Geological Society of America Abstracts with Programs*. Vol. 49 (Seattle, WA; oral presentation).
97. **Biedron, E.**, **DeSantis, L.** 2017. Stable isotope ecology of extant mountain and common brushtail possums. *Geological Society of America Abstracts with Programs*. Vol. 49 (Seattle, WA; poster presentation).
96. **DeSantis, L.**, Black, K., Archer, M., Hand, S. 2017. Was the tree-climbing diprotodontid *Nimbadon lavarackorum* in search of fruit? *16<sup>th</sup> Conference on Australasian Vertebrate Evolution Palaeontology and Systematics Program and Abstracts Book 2017* (CAVEPS, Queenstown, New Zealand; oral presentation)
95. **Scholtz, E.**, **DeSantis, L.** 2017. Assessing impacts of European arrival on marsupial mammals: dietary ecology of quokkas and petrogales across space and through time. *16<sup>th</sup> Conference on Australasian Vertebrate Evolution Palaeontology and Systematics Program and Abstracts Book 2017* (CAVEPS, Queenstown, New Zealand; oral presentation, contender for top student presentation)

94. \*Tanis, B., **DeSantis, L.R.**, Terry, R.C. 2017. Linking microwear across the dental arcade: are canid dietary signals from the m1 talonid comparable to the m2? *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2017* (Society of Vertebrate Paleontology, Calgary, Alberta, Canada; oral presentation)
93. **DeSantis, L.R.**, Koch, P. L. 2017. Dietary ecology of the scimitar-toothed cat *Homotherium serum* from Friesenhahn Cave as inferred from stable isotopes and dental microwear: a cheetah-like predator. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2017* (Society of Vertebrate Paleontology, Calgary, Alberta, Canada; oral presentation)
92. Patterson, B.J., **DeSantis, L.R.G.**, 2017. Revisiting dental disease as a trigger for lions to become man-eaters. *97th Annual Meeting of the American Society of Mammalogists Abstracts Book* (Moscow, ID; oral presentation)
91. \*Tanis, B.P., **DeSantis, L.R.G.**, Terry, R.C. 2017. Linking microwear across the dental arcade: do canid m1 and m2s record comparable signals? *97th Annual Meeting of the American Society of Mammalogists Abstracts Book* (Moscow, ID; oral presentation)
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88. **Hedberg, C.**, **DeSantis, L.** 2016. Clarifying causal agents of dental microwear formation as revealed by koalas. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2016* (Society of Vertebrate Paleontology, Salt Lake City, UT; oral presentation)
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83. **DeSantis, L.R.G.**, Feranec, R.S. 2016. Late Pleistocene paleoecology of carnivores: dramatic discrepancies in dietary interpretations and extinction implications with different tissues and proxy methods. *The 10<sup>th</sup> International Conference on Applications of Stable Isotope Techniques to Ecological Studies* (IsoEcol, Tokyo, Japan; oral presentation)
82. Feranec, R.S., Pagnac, D., Crowley, B.E., Maguire, K.C., **DeSantis, L.R.G.** 2015. Stable isotope values from ungulate tooth enamel shed light on the Miocene biogeography of C<sub>4</sub> plants in the United States. *Geological Society of America Abstracts with Programs* (Baltimore, MD; oral presentation).
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79. **Crites, J.**, **DeSantis, L.** 2015. Temporal variability in the dietary behavior of *Canis dirus* at the Rancho La Brea Tar Pits. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2015* (Society of Vertebrate Paleontology, Dallas, TX; selected Colbert Poster Prize contender)
78. **Jones, D.B.**, **DeSantis, L.** 2015. Dietary ecology of herbivorous megafauna from the La Brea tar pits in southern California: evidence of changing dietary behavior coincident with climate change. *Journal of*

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77. \***Smith, G.**, Graham, R., **DeSantis, L.**, **Donohue, S.** 2015. Bergmann's response and dietary variability in North American Black Bears (*Ursus americanus*) throughout the Quaternary. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2015* (Society of Vertebrate Paleontology, Dallas, TX; oral presentation)
  76. \***Yann, L.T.**, **DeSantis, L.** 2015. Dietary variability in Plio-Pleistocene camelids. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2015* (Society of Vertebrate Paleontology, Dallas, TX; poster presentation)
  75. Tung, T.A., **DeSantis, L.**, \*\*\***Shea, M.** 2015. Documenting forced movement of African slaves to the Grassmere Plantation, Nashville, Tennessee using carbon and oxygen stable isotope analysis. *80th Annual Meeting of the Society of American Archaeology Program and Abstracts Book 2015* (Society of American Archaeology, San Francisco, CA; oral presentation)
  74. **DeSantis, L.R.G.**, Schubert, B.W. 2015. Tales from tapir teeth: dietary ecology of extant and extinct tapirs as inferred from dental microwear texture analysis. *Southeastern Vertebrate Paleontology Meeting Program and Abstracts Book 2015*. (Southeastern Society of Vertebrate Paleontology, Tuscaloosa, AL; oral presentation)
  73. \***Bradham, J.L.**, **DeSantis, L.R.G.**, Jorge, M., Galetti, M., Keuroghlian, A. 2015. Dietary plasticity in modern and extinct peccaries: a harrowing tale of survival. *Southeastern Vertebrate Paleontology Meeting Program and Abstracts Book 2015*. (Southeastern Society of Vertebrate Paleontology, Tuscaloosa, AL; oral presentation)
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  66. \***Haupt, R.**, **DeSantis, L.** 2014. Paleoeological insights from dental microwear textures of extinct xenarthrans during glacial and interglacial periods in Pleistocene Florida. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2014* (Society of Vertebrate Paleontology, Berlin, Germany; poster presentation)
  65. Ungar, P., \***Ragni, A.**, **DeSantis, L.** 2014. Comparability of dental microwear texture data between studies. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2014* (Society of Vertebrate Paleontology, Berlin, Germany; oral presentation)
  64. \*\***Hurst, A.A.**, **DeSantis, L.R.G.** 2014. Dental microwear textures and dental macrowear reveal dietary differences in extant feliforms: implications for interpreting diet in extinct taxa. *Geological Society of America Abstracts with Programs 2014* (Vancouver, British Columbia; poster presentation)
  63. \***Winburn, A.A.**, Tung, T.A., **DeSantis, L.** 2014. 3D dental microwear analysis of Maya elites from Cancuén, Guatemala. *Society for American Archaeology 2014 Annual Meeting Abstract Book* (Society for American Archaeology, Austin, TX; poster presentation)

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61. Tung, T.A., **DeSantis, L.**, Culleton, B., Kennett, D. 2014. Characterizing the victims of lethal violence after the collapse of the Wari Empire: bioarchaeological and isotopic analysis of massacre victims at Huari, Peru. *Society for American Archaeology 2014 Annual Meeting Abstract Book (Society for American Archaeology, Austin, TX; oral presentation)*
60. **DeSantis, L.**, \*\***Lashinsky, N.**, \*\***Romer, J.**, \*\***Greshko, M.**, \*\***Loffredo, L.** 2013. University students' acceptance of climate change and evolution: are skeptics just anti-science? *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2013*: 115 (Society of Vertebrate Paleontology, Los Angeles, CA; oral presentation; Selected for a press release by the Society of Vertebrate Paleontology)
59. **DeSantis, L.**, Scott, J., Schubert, B., \***Donohue, S.**, \***McCray, B.** 2013. Direct comparisons of 2D and 3D dental microwear proxies in extant herbivorous and carnivorous mammals: the importance of depth and observer consistency for resolving diet. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2013*: 114-115. (Society of Vertebrate Paleontology, Los Angeles, CA; oral presentation)
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57. \***Donohue, S.**, **DeSantis, L.**, Schubert, B., Ungar, P. 2013. Was the giant short-faced bear *Arctodus simus* a hyper-scavenger? A new approach to the dietary study of ursids using dental microwear textures. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2013*: 117 (Society of Vertebrate Paleontology, Los Angeles, CA; oral presentation)
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55. \***Haupt, R.**, **DeSantis, L.** 2013. Insights from dental microwear texture analysis into the survival of cougars (*Puma concolor*) through the late Pleistocene extinction. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2013*: 140. (Society of Vertebrate Paleontology, Los Angeles, CA; oral presentation)
54. \*\***Lashinsky, N.**, **DeSantis, L.**, \***Yann, L.**, \***Donohue, S.**, \***Haupt, R.** 2013. Is Rapoport's rule a recent phenomenon? A deep time perspective on potential causal mechanisms. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2013*: 159. (Society of Vertebrate Paleontology, Los Angeles, CA; oral presentation)
53. \*\***Marcy, A.**, **DeSantis, L.**, Hadly, E. 2013. Morphometrics and microwear analyses suggest tooth-digging pocket gophers (*Thomomys* spp.) claimed climate-hardened soils through increased incisor procumbency. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2013*: 172. (Society of Vertebrate Paleontology, Los Angeles, CA; oral presentation)
52. \***Yann, L.**, **DeSantis, L.**, Koch, P., Lundelius, E. 2013. The influence of feeding ecology on the distribution of North American Pleistocene camelids. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2013*: 241. (Society of Vertebrate Paleontology, Los Angeles, CA; oral presentation)
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50. \*Winburn, A., Tung, T., **DeSantis, L.**, Demarest, A. 2013. Social class, trauma, and geographical origin of elite individuals from Cancuén, Guatemala. *Society for American Archaeology Abstract Book 2013*. (Society for American Archaeology, Honolulu, HI; poster presentation)
49. Tung, T.A., **DeSantis, L.R.G.**, Culleton, B.J., Kennett, D. 2013. Climate change, violence, and diet from Wari Imperial Rule to the post-Wari Era in the Peruvian Andes. *2013 Conference on the Archaeology of Food and Warfare* (Santa Barbara, CA; oral presentation).
48. **DeSantis, L.R.G.**, Dillehay, T.D., Feranec, R.S., Goodbred, S.L. 2012. Clarifying the diets of prehistoric populations from Huaca Prieta, Peru: integrating stable isotopes and dental microwear texture analysis. *Archaeological Sciences of the Americas Symposium Abstract Book 2012* (Archaeological Sciences of the Americas Symposium, Nashville, TN; oral presentation)
47. \***Donohue, S.L.**, **DeSantis, L.R.G.**, Schubert, B.W., Ungar, P.S., Stynder, D.D. 2012. Using dental microwear textures to reconstruct feeding ecology of extinct bears from north-central Florida and

- Langebaanweg, South Africa. *Archaeological Sciences of the Americas Symposium Abstract Book 2012* (Archaeological Sciences of the America Symposium, Nashville, TN; poster presentation)
46. **\*Loffredo, L., DeSantis, L.R.G.** 2012. Integrating dental mesowear and geochemical data on faunal remains: potential implications for archaeological and paleontological studies. *Archaeological Sciences of the Americas Symposium Abstract Book 2012* (Archaeological Sciences of the America Symposium, Nashville, TN; poster presentation)
  45. **\*Yann, L.T., Tung, T.A., DeSantis, L.R.G.** 2012. Investigation of diet and aridity in camelids from the Middle Horizon and Late Intermediate period of Peru. *Archaeological Sciences of the Americas Symposium Abstract Book 2012* (Archaeological Sciences of the America Symposium, Nashville, TN; poster presentation)
  44. **\*Kelly, J., DeSantis, L.R.G., Tung, T.A.** 2012. Applying Stable Isotope Analysis to Document Drought and Diet after Wari Imperial Decline in the Peruvian Andes. *Archaeological Sciences of the Americas Symposium Abstract Book 2012* (Archaeological Sciences of the America Symposium, Nashville, TN; poster presentation)
  43. **\*Donohue, S.L., DeSantis, L.R.G., Schubert, B.W., Ungar, P.S., Stynder, D.D.** 2012. Using dental microwear textures to reconstruct feeding ecology of bears. *Geological Society of America Abstracts with Programs*: 400 (Charlotte, NC; poster presentation)
  42. **DeSantis, L.R.G., Schubert, B.W., Scott, J.R., Ungar, P.S.** 2012. Times not so tough at La Brea: Dental Microwear Texture Analysis clarifies the feeding behavior of the saber-toothed cat *Smilodon fatalis* and the American lion *Panthera atrox*. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2012*: 86 (Society of Vertebrate Paleontology, Raleigh, NC; oral presentation)
  41. **\*Kaufman, A., Schubert, B., DeSantis, L.** 2012. A paleoecological analysis of late Pleistocene cervid remains from Guy Wilson Cave, southern Appalachians, Tennessee. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2012*: 119 (Society of Vertebrate Paleontology, Raleigh, NC; poster presentation)
  40. **\*Donohue, S.L., DeSantis, L.R.G.** 2012. Traditional classroom visits are necessary when evolution is taught as a controversy: broadening the impact of individual classroom visits. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2012*: 88 (Society of Vertebrate Paleontology, Raleigh, NC; poster presentation)
  39. **\*Haupt, R.J., DeSantis, L.R.G.** 2012. Integrating dental microwear texture analysis and geochemical data in an extant carnivore (*Puma concolor*): lessons learned from modern ecology of application to paleoecological studies. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2012*: 107 (Society of Vertebrate Paleontology, Raleigh, NC; poster presentation)
  38. **\*Loffredo, L., DeSantis, L.R.G.** 2012. High observer variability in dental mesowear analysis of an extreme generalist *Cormohipparion emsliei* from Florida: cautionary lessons learned from integrating geochemical and dental mesowear data. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2012*: 129 (Society of Vertebrate Paleontology, Raleigh, NC; poster presentation)
  37. **\*Yann, L., DeSantis, L.R.G.** 2012. Effects of Pleistocene climatic regimes on dietary niches and environmental heterogeneity in Florida. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book 2012*: 198 (Society of Vertebrate Paleontology, Raleigh, NC; oral presentation)
  36. **DeSantis, L.R.G.** 2012. Assessing mammalian responses to glacial and interglacial conditions. *The 8<sup>th</sup> International Conference on Applications of Stable Isotope Techniques to Ecological Studies*: 30 (IsoEcol, Brest, France; oral presentation)
  35. **\*Donohue, S.L., DeSantis, L.R.G., Schubert, B.W., Ungar, P.S.** 2012. Assessing feeding ecology of Ursidae using dental microwear texture analysis. *Southeastern Vertebrate Paleontology Abstracts* (Southeastern Association of Vertebrate Paleontology, Boone, NC; oral presentation)
  34. **\*Haupt, R.J., DeSantis, L.R.G.** 2012. Dentin as a dietary indicator in extant xenarthrans and its applicability to the fossil record. *Southeastern Vertebrate Paleontology Abstracts* (Southeastern Association of Vertebrate Paleontology, Boone, NC; oral presentation)
  33. **\*Lashinsky, N., DeSantis, L.R.G.** 2012. Assessing how the extant lesser forest-wallaby *Dorcopsulus vanheurni* and Lumholtz's tree kangaroo *Dendrolagus lumholtzi* record their environment: establishing a baseline for studies of extinct marsupials. *Southeastern Vertebrate Paleontology Abstracts* (Southeastern Association of Vertebrate Paleontology, Boone, NC; poster presentation)
  32. **\*Loffredo, L., DeSantis, L.R.G.** 2012. High observer variability in dental mesowear analysis of an extreme generalist *Cormohipparion emsliei* from Florida: cautionary lessons learned from integrating

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  30. **DeSantis, L. R.G.**, 2012. Mammalian responses to climate change: conservation lessons from Deep-time experiments. *Geological Society of America Abstracts with Programs* 44(4): 77 (Southeastern Geological Society of America Meeting, Ashville, NC; oral presentation)
  29. **DeSantis, L.**, \*Beavins Tracey, R., \*Koontz, B., \*Roseberry, J., \*Velasco, M. 2011. Mammalian niche conservation through deep time. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book* 2011: 98 (Society of Vertebrate Paleontology, Las Vegas, NV; poster presentation)
  28. \*Haupt, R., **DeSantis, L.**, Green, J. 2011. Dental microwear texture analysis of dentin. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book* 2011: 123 (Society of Vertebrate Paleontology, Las Vegas, NV; poster presentation)
  27. \*Yann, L., \*Haupt, R., **DeSantis, L.**, \*\*Romer, J., \*\*Corapi, S. 2011. Mammalian oxygen isotope values as an indicator of regional climatic differences in Pleistocene North America. *Journal of Vertebrate Paleontology, SVP Program and Abstracts Book* 2011: 217-218 (Society of Vertebrate Paleontology, Las Vegas, NV; poster presentation)
  26. \*Yann, L., \*Haupt, R., **DeSantis, L.**, \*\*Romer, J., \*\*Corapi, S., \*\*Ettenson, D., 2011, Mammalian oxygen isotope values as an indicator of regional climatic differences in Pleistocene North America. *Southeastern Association of Vertebrate Paleontology, SEAVP Abstracts and Program*: 33 (SEAVP, Gainesville, FL; oral presentation)
  25. **DeSantis, L.R.G.**, 2010. Bringing current paleontological research to K-12+ classrooms through inquiry-based modules. *Society of Vertebrate Paleontology Education and Outreach Poster Session Abstracts* (Society of Vertebrate Paleontology, Pittsburgh, PA; poster presentation)
  24. **DeSantis, L.R.G.**, 2010. Assessing effects of climate change on mammals and their environments through time: utilizing stable isotopes from fossil mammal teeth to clarify seasonal dietary resource partitioning. *The 95<sup>th</sup> Annual Ecological Society of America Abstracts*: COS 77-10 (Ecological Society of America, Pittsburgh, PA; oral presentation)
  23. **DeSantis, L.R.G.**, Feranec, R.S., MacFadden, B.J., Hulbert, R.C., Bloch, J.I. 2010. Determining glacial and interglacial climate conditions using stable isotopes from fossil mammal teeth. *Geochimica et Cosmochimica Acta* 74: A226 (Goldschmidt, Knoxville, TN; poster presentation)

#### *Pre-Vanderbilt Years*

22. **DeSantis, L.R.G.**, MacFadden, B.J. 2008. Stable isotopes and REEs of ungulates and xenarthrans from Haile 7G: elucidating the paleoecology of a late Pliocene fossil site from Florida. *Journal of Vertebrate Paleontology* 28: 71A (Society of Vertebrate Paleontology, Cleveland, OH; oral presentation)
21. MacFadden, B.J, **DeSantis, L.R.G.**, 2008. Physical properties, geochemistry, and diagenesis of fossil Xenarthra teeth: prospects for interpreting stable isotope evidence. *Journal of Vertebrate Paleontology* 28: 109A (Society of Vertebrate Paleontology, Cleveland, OH; oral presentation)
20. **DeSantis, L.R.G.**, 2008. Applying stable isotope analyses of extant tapirs to constrain paleoecological hypotheses. *The 6th International Conference on Applications of Stable Isotope Techniques to Ecological Studies* (IsoEcol, Honolulu, HI; poster presentation)
19. Wear, S., **DeSantis, L.R.G.**, 2008. Helping coral reef managers build resilience to climate change into marine protected area management with the Reef Resilience Toolkit. *The 93<sup>rd</sup> Annual Ecological Society of America Abstracts*: COS 93-8 (Ecological Society of America, Milwaukee, WI, poster presentation by DeSantis)
18. **DeSantis, L.R.G.**, Feranec, R.S., MacFadden, B.J. 2008. Effects of interglacial warming on ancient mammalian communities and their environments. *The 93<sup>rd</sup> Annual Ecological Society of America Abstracts*: PS 75-56 (Ecological Society of America, Milwaukee, WI; oral presentation, Award winner for the best Paleoecology Student Presentation; Edward S. Deevey Award)
17. **DeSantis, L.R.G.**, 2008. Bringing current ecological research to the classroom through inquiry-based activities that utilize actual scientific methods. *The 93<sup>rd</sup> Annual Ecological Society of America Abstracts*: OOS 17-10 (Ecological Society of America, Milwaukee, WI; oral presentation)

16. Feranec, R.S., **DeSantis, L.R.G.**, 2008. Identifying resource partitioning among carnivores in the Plio-Pleistocene of Florida using stable isotopes. *Southeastern Vertebrate Paleontology Abstracts* (Southeastern Association of Vertebrate Paleontology, Johnson City, TN; oral presentation)
15. **DeSantis, L.R.G.**, MacFadden, B.J. 2007. Fossil tapirs as indicators of forested environments: evidence from evolutionary morphology and stable isotopes. *Journal of Vertebrate Paleontology* 27: 68A (Society of Vertebrate Paleontology, Austin, TX; oral presentation)
14. **DeSantis, L.R.G.**, 2007. Selection, bugs, and rocks that roll: teaching evolution through inquiry based lessons of uncontroversial science. *Geological Society of America Abstracts with Programs* 39: 3 (Southeastern Geological Society of America, Savannah, GA; oral presentation)
13. **DeSantis, L.R.G.**, Bloch, J., Hulbert, R. 2006. Paleoecological dynamics of mammalian communities under glacial and interglacial conditions in Florida. *Journal of Vertebrate Paleontology* 26: 69A (Society of Vertebrate Paleontology, Ottawa, Canada; oral presentation)
12. **DeSantis, L.R.G.**, 2006. Stable isotopic evidence of the effects of global change and sea-level rise on mammalian community ecology under glacial and interglacial conditions. *The 5th International Conference on Applications of Stable Isotope Techniques to Ecological Studies - Abstracts* (IsoEcol, Belfast, Northern Ireland; oral presentation)
11. \*Bhotika, S., **DeSantis, L.**, Williams, K., Putz, F. 2006. Accelerated decline of *Sabal palmetto* in a Florida coastal forest. *The 91<sup>st</sup> Annual Ecological Society of America Abstracts* (Ecological Society of America, Memphis, TN; poster presentation)
10. **DeSantis, L.R.G.**, Wallace, S.C. 2006. Identifying forest canopies using fossil tapirs and stable isotopes. *Program and Abstracts-Advances in Paleobotany* (Advances in Paleobotany, Gainesville, FL; oral presentation)
9. **DeSantis, L.R.G.**, Wallace, S.C. 2005. Anomalous Paleocology of a Neogene Fossil Site, Gray, TN: utilizing stable isotope analyses to interpret canopy density. *Geological Society of America Abstracts with Programs* 37: 340 (Geological Society of America, Salt Lake City, UT; oral presentation)
8. **DeSantis, L.R.G.**, Wallace, S.C. 2005. Anomalous Paleocology of a Neogene Fossil Site, Gray, TN: utilizing stable isotope analyses of fossil tooth enamel to reconstruct past environments. *Journal of Vertebrate Paleontology* 25: 51A (Society of Vertebrate Paleontology, Mesa, AZ; poster presentation)
7. **DeSantis, L.R.G.**, 2005. Straight from the Tapir's Mouth: applying stable isotope analyses of extant tapirs to constrain paleoecological hypotheses. *Congresso Latino-Americano de Paleontologia de Vertebrados 2*: 94-95 (II Congresso Latino Americano de Paleontologia de Vertebrados, Rio de Janeiro, Brazil; oral presentation)
6. **DeSantis, L.R.G.**, 2005. Utilizing stable isotope techniques of extant tapirs from Acapulco Mexico to quantify canopy density and dietary variation. *Association for Tropical Biology and Conservation – Abstracts with Programs* (Society of Tropical Biology and Conservation, Uberlandia, Brazil; oral presentation)
5. **Grawe, L.R.**, Wallace, S.C. 2005. The anomalous paleoecology of the Gray Fossil Site: utilizing stable isotope analyses of fossil tapirs to interpret canopy density. *Southeastern Ecology and Evolution Conference – Abstracts with Programs* (Southeastern Ecology and Evolution Conference, Athens, GA; oral presentation)
4. **Grawe, L.R.**, Gray, F. 2004. “SPICING” up geoscience education: utilizing innovative partnerships to engage minorities and females in geosciences through inquiry-based collaborative education. *Geological Society of America Abstracts with Programs* 36: 278 (Geological Society of America, Denver, CO; oral presentation)
3. **Grawe, L.R.**, DeSantis, D.T. 2004. Achieving educational objectives at the Yale Outdoor Education Center: the construction of an innovative nature trail and supplemental educational materials. *Society of Conservation Biology 2004 Book of Abstracts* (Society of Conservation Biology, New York City, NY; poster presentation)
2. **Grawe, L.R.**, 2003. The Paleontology of Dinosaurs Moveable Museum: extending museum educational resources. *Journal of Vertebrate Paleontology* 23: 57A (Society of Vertebrate Paleontology, Minneapolis, MN; poster presentation)
1. **Grawe, L.R.**, 2002. Paleontological museum exhibits: How effectively are principles of evolution communicated to the public? *Journal of Vertebrate Paleontology* 22: 60A (Society of Vertebrate Paleontology, Norman, OK; poster presentation)



## TEACHING

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### New Courses Developed and/or Taught at Vanderbilt University:

**Commons Seminar: Girls Like Dinosaurs Too: Discoveries of Women in Science** (Developed: EES 1001.01, 1 Credit, Spring 2016)

*Introductory seminar course for freshman undergraduate students.* Explore the discoveries made by female scientists and barriers female and minority scientists have faced over the centuries. Discussions of women scientists venture into understanding the women of the Manhattan Project, girls of atomic city, the female astronauts that never launched (the first “manned space program”), and the most recent “underground astronauts” that helped discover early hominids in South Africa. Guest female scientists also participate in discussions pertaining to their own research and experiences. Students interview female scientists and produce pod-casts aimed at girls in middle-grades.

**Ecology, Evolution, and Climates through Time** (Developed: EES 1140, Formerly EES 114/114W, 3 Credits; Fall 2010, 2011, 2012, 2013, Spring 2015)

*Introductory lecture course for undergraduate students.* Biological responses to global climate and environmental change through geologic time. Causes of climate change and its impact on biodiversity, including extinction implications. Interactions between climate, environments, and the evolution of organisms, emphasizing vertebrates during the past 65 million years. Students produce broader impact products.

**Introduction to Biological Sciences** (BSCI 1511, 3 Credits; Spring 2021)

*Introductory lecture course for undergraduate students.* Continuation of 1510. Cell communication. Physiology, organ function and development. Mendelian and population genetics. Evolution, ecology, and speciation. Populations, ecosystems, and conservation biology.

**Directed Laboratory Research** (BSCI 3861, 2-4 Credits; Fall 2020)

*Advanced directed research course for undergraduate students, my role was as a coordinator.* Directed student research on a project conceived by a member of the Biological Sciences faculty. Enrollment by arrangement before the end of the previous semester. May be taken only once, and participants ordinarily expected to have overall grade point average of B or better.

**Earth Systems through Time** (Co-Developed: EES 2510, formerly EES 202, 3 Credits; Co-developed this course; co-taught, one of three instructors of record, in Fall 2011, I give between 2-6 guest lectures per year since 2011-including when on leave)

*Lecture and lab course for undergraduate students, primarily aimed at EES majors.* Effects of feedbacks between the geologic cycles on the lithosphere, hydrosphere, biosphere, and atmosphere at diverse intervals in the Earth’s history. Present and future implications. Interpretations of evidence recorded in Earth materials. Field trips highlight course content.

**Life through Time** (Revised: EES 3220, formerly EES 220, 4 Credits - Note, I revised and developed all lectures and labs for the iteration of this course taught starting in Spring 2016, also taught in 2017, 2018, I will also teach this in the Spring of 2019)

*Lecture and lab course for undergraduate students, primarily aimed at EES majors.* Biological responses to global climate and environmental change through geologic time. Causes of climate change and its impact on biodiversity, including extinction implications. Interactions between climate, environments, and the evolution of organisms. Students engage in an educational outreach event, *Fossils at the Fort*.

**Paleoecological Methods** (Developed: EES 4820, formerly EES 282 and also EES 390, 3 Credits; Spring 2010, 2011, Fall 2012, 2013, 2015, 2017)

*Advanced lecture course for undergraduate and graduate students.* Tools used to interpret past environments and climates, including plant microfossils, pollen and phytoliths, vertebrate morphology, and dental microwear and mesowear. Geochemical tools such as stable isotopes and rare earth elements. Integrating methods from paleontological and anthropological studies, including the use of databases and meta-analyses. Readings from primary sources and a field trip to the Gray Fossil Site supplements course content. Students complete a collaborative group project that is typically published in a peer-reviewed journal.

**Senior Seminar** (EES 4961, 1 Credit; Spring 2019)

*Capstone course for senior undergraduates.* Integrating concepts and information from diverse fields. Offered on a graded basis only. Limited to seniors in the final semester of the major.

**Macroecology and Biogeography** (Developed: EES 7620, formerly EES 362 and also EES 390, 3 Credits; Spring 2012, 2016)

*Advanced discussion-based course for graduate students.* Integration of evolutionary biology, paleobiology, ecology, and biogeography to understand interactions between organisms and their environments over large spatial and temporal scales, including in ancient ecosystems. The discipline of macroecology; nature of species, niches, and communities; abundance and distribution of species; species diversity; composition and assembly of continental biotas; allometry and body size; evolutionary dynamics; methodological advances. Students complete a collaborative group project that is typically published in a peer-reviewed journal.

**Topics in Macroevolution** (Developed: EES 7640, formerly EES 364 and also EES 390, 3 Credits; Spring 2013, Fall 2018)

*Advanced discussion-based course for graduate students.* Evolutionary processes that operate on geological time scales. Evolutionary theory; systematics; speciation and extinction; evolutionary benefits of sexual reproduction; co-evolution; convergence; biogeography; and relevance of evolution to modern ecology and conservation. Effects of abiotic processes on the evolution of terrestrial and marine organisms. Students complete a collaborative group project that is typically published in a peer-reviewed journal.

**Paleobiology** (BSCI 3231, *Under review*, aimed at Spring of 2022)

*Advanced lecture course for undergraduate and graduate students.* Macroevolutionary processes as observed primarily through the fossil record. Inference of evolutionary relationships, physiology, reproduction, behavior, and ecology. Fundamentals of paleobiology, paleoecology, paleoclimates, macroecology, biogeography, geology, geochemistry, anthropology, and conservation paleobiology. Effects of climate change and human impacts, a deep-time perspective.

*\*I also helped teach the Responsible Conduct of Research Course*, including sections on *Peer Review of Publications* and *Mentor/Trainee and Conflict of Interest* course (2020-present; see Service Section)

Also, see: <https://www.desantislabs.com/educational-resources> for examples of student projects.

### **Teaching Grants Received/ Teaching Workshop Participation:**

**Junior Faculty Teaching Fellowship**, Vanderbilt University (2015-2016).

A competitive academic year-long fellowship program that is aimed at achieving excellence in teaching through student centered learning, reflection of ones teaching practices, revision of current courses, and continuous self and peer/expert teaching evaluations (also noted under Awards).

**Cumberland Project**, Vanderbilt University (2011).

I participated in the inaugural Cumberland Project workshop, subsequent follow-up workshops, and presented at invited teaching seminars. The Cumberland Project aims to infuse existing courses with sustainability, engage scholars in building cross campus teaching collaborations, and introduces new courses and activities involving topics pertinent to sustainability. I presented at the **Celebration of Teaching**, Vanderbilt University, Nashville, TN 2013 (noted under invited talks, section G)

**Center for Teaching Events**, Vanderbilt University (2013-present).

I have presented at a series of Center for Teaching Events, including various sessions regarding project-based learning in undergraduate and graduate courses, "open doors" teaching visits, and a session on student-produced podcasts (<https://cft.vanderbilt.edu/events/conversations-on-digital-pedagogy/>).

### **Postdoctoral Scholars Supervised** (\*Denotes Females and/or Ethnic Minorities):

\*Dr. Melissa Pardi (Ph.D. Received 2016)

### **Graduate Student Advisees** (\*Denotes Females and/or Ethnic Minorities):

\*Eva Biedron (M.S. Received 2018)

Greg Smith (Ph.D. student began in the Fall of 2015; advised from 8/15-3/18)

\*Jennifer Bradham (Ph.D. student began in the Fall of 2013; advised from 8/13-8/15)

\*Lindsey Yann (Ph.D. Received 2014)

\*Shelly Donohue (M.S. Received 2013)

Ryan Haupt (M.S. Received 2012)

\*Judy Moss (M.L.A.S. Received 2010)

**Graduate Student Committees, excluding Advisees** (\*Denotes Females and/or Ethnic Minorities):

- \*Willow Nguy (Ph.D. Student, University of Nebraska)
- \*Abigail Kelly (Ph.D. Student, University of Cincinnati)
- \*Amanda Burt (Ph.D. Student, Indiana University)
- \*Stephanie Birnbaum (Ph.D. student, Biology)
- \*Brian Tanis (Ph.D. student, Oregon State University)
- \*Rachel Shumaker (M.S. 2017, Earth and Environmental Sciences)
- \*Moyosore Ajayi (M.S. 2016, Earth and Environmental Sciences)
- Nicholas Hermann (M.S. 2016, Earth and Environmental Sciences)
- Chris Myers, M.S. (M.S. 2014, Earth and Environmental Sciences)
- William Frazier (M.S. 2013, Earth and Environmental Sciences)
- Colin Brooks (M.S. student, Earth and Environmental Sciences)
- \*Amanda Winburn (Ph.D. student, Anthropology)
- \*Cassandra (Beth) S. Koontz (Ph.D. 2015, Anthropology, removed from committee in summer of 2015 due to removal of isotope section)
- \*Mathew Velasco (Ph.D. awarded 2016, Anthropology)
- \*Amanda Kaufman (M.S. 2013, Geosciences, East Tennessee State University)
- \*Rachel Beavins (M.S. 2011, Earth and Environmental Sciences)
- \*Beverly Walker (M.S. 2011, Earth and Environmental Sciences)

**Undergraduate Students Supervised at Vanderbilt University** (\*Denotes Females and/or Ethnic Minorities):

- \*Kayla Powell (Biological Sciences, Spring 2021-present)
- \*Dillon Davey (Biological Sciences, Fall 2020-present)
- \*Mark Abdelmalak (Biological Sciences, Fall 2020-present)
- \*Nora Murphy (Biological Sciences, Spring 2019-Spring 2020)
- \*Jiayi Wang (Anthropology, Fall 2018-present)
- \*Ansley Petherick (Ecology, Evolution, and Organismal Biology, Summer 2018-present; VUSRP Littlejohn Fellow Designation)
- J. Matthew Martin (Earth & Environmental Sciences, Spring 2018-Spring of 2019)
- James Baker (Ecology, Evolution, and Organismal Biology, Spring 2018-Fall of 2019)
- Andrew Schwartz (Anthropology, Spring of 2018-present)
- \*Margaret Dorhout (Earth & Environmental Sciences, Summer 2018-present)
- \*Elizabeth Hall (Biological Sciences, Fall 2017-present)
- \*Autumn Saunders (Biological Sciences, Spring 2017-Spring 2018)
- \*Allana Anderson (Earth & Environmental Sciences, Spring 2017-Spring 2018)
- \*Elinor Schultz (Earth & Environmental Sciences, Fall 2016-present)
- Jake Rubenstein (Biological Sciences, Spring 2015-Fall 2016)
- \*Carson Hedberg (Earth & Environmental Sciences, Fall 2014-Spring 2016)
- Jonathan Crites (Ecology, Evolution, and Organismal Biology, Fall 2014-Spring 2017)
- \*Autumn Henderson (Earth & Environmental Sciences, Fall 2013-Spring 2015)
- \*Aaron Hurst (Earth & Environmental Sciences, Fall 2013-Spring 2015)
- Davis "Brent" Jones (Earth & Environmental Sciences, Spring 2013-Spring 2016; VUSRP Littlejohn Fellow Designation)
- Michael Greshko (Ecology & Evolutionary Biology, Fall 2012-Spring 2014)
- Nikolai Veter (formerly Nick Lashinsky; Earth & Environmental Sciences/Ecology & Evolutionary Biology, Spring 2012-Spring 2013; VUSRP Fellowship)
- \*Ellen Reat (Earth & Environmental Sciences, Spring 2012-Spring 2013)
- \*Amishi Kumar (Earth & Environmental Sciences, Fall 2011-Spring 2013)
- Stoycho Velkovsky (Ecology, Evolution, and Organismal Biology, Spring 2011-Spring 2012)
- \*Natalie Jordan (Public Policy, Spring 2011-Fall 2011, VUSRP Fellowship)
- Lucas Loffredo (Earth & Environmental Sciences/EEOB, Fall 2010-Spring 2013)

## High School Students Supervised at Vanderbilt University (\*Denotes Females and/or Ethnic Minorities):

- \*Anna Reside (MLK High School, Spring 2016-Spring 2017; [Siemens semifinalist, one of five in Tennessee](#)); Note, I also mentored Anna Reside at Vanderbilt University during the Summer of 2018 and currently, while she maintains enrollment at Yale University.
- \*Molly Shae (Hillsboro High School, Spring 2015-Spring 2016; co-advised with T. Tung as lead advisor)
- \*Tim Jiang (Ravenwood High School, Spring 2013-Spring 2014)
- \*Maddie Wilson (Ravenwood High School, Summer 2013)
- \*Claire Burgess (Hume-Fogg High School, Spring 2012-Spring 2013)
- \*Samantha Fletcher (Ravenwood High School, Spring 2011-2012)
- \*Jasmine Kelley (MLK High School, Spring 2011-Spring 2012; co-advised with T. Tung as lead advisor)

## SERVICE

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### Departmental Service:

*Department of Biological Sciences Graduate Admissions Committee* (Fall 2020-present)

*Department of Earth and Environmental Sciences Seminar Committee Chair* (Fall 2011-Spring of 2013)

*Graduate Recruitment Assistant Coordinator* – Helped organize and coordinate graduate recruitment activities during 2010-2011, now I provide more general help (similar to other faculty in EES)

*Fossil at the Fort* – Organize and lead the EES *Life through Time* public outreach event (during March of 2016, 2017, and 2018, prior years were organized by Dr. Molly Miller). Students present their research and engaged with the public (<https://news.vanderbilt.edu/2016/03/10/fossils-at-the-fort-2/>; <https://news.vanderbilt.edu/2017/03/15/fossils-at-the-fort-is-march-25/>; <https://news.vanderbilt.edu/2018/03/22/vanderbilt-students-offer-firsthand-look-at-nashvilles-distant-past-during-fossils-at-the-fort-april-7/>)

\*Note, all members of the Department of Earth and Environmental Science make up Graduate Admissions and Faculty Search Committees (I have been involved, much like other EES members, in the hiring of several faculty members and graduate admissions decisions for ~12 years, including while on sabbatical and leave).

### College & University Service:

*Advisory Board, [Evolution at Vanderbilt Initiative](#)* (2020-present)

*Seminar Chair for Evolutionary Studies Seminar, Evolution at Vanderbilt Initiative* (2020-present) – I launched the ‘virtual’ seminar series, including a [YouTube Channel](#) featuring speakers.

*Junior Advisory Review Committee (JARC), College of Arts and Sciences* (2020-present)

*Responsible Conduct of Research Course Instructor, Vanderbilt University/Graduate School* – I helped teach the sections on *Peer Review of Publications* and *Mentor/Trainee and Conflict of Interest* course (2020-present)

*Faculty Council, College of Arts and Sciences* (Secretary, 2020-present; elected member, 2019-present)

*University Committee for External Grant Limited Submission Opportunities* (2018-present)

*Committee Member* – Major in Climate Studies (2021-present)

*Coach and Faculty Sponsor Vanderbilt University Trapshooting Team* – I help coach practices on Sunday afternoons and attend some Saturday competitions (2015-2017)

*Graduate Faculty Delegate Assembly* for the Department of Earth and Environmental Sciences (2013-2014, 2017-2019)

*Committee Member* – Minor in Environmental Studies Committee (2011)

*Vanderbilt University Virtual School Session Participant* – I presented a videoconference for the *Science and Environment* series titled *Ancient Mammals and Changing Climates* to middle school and high school audiences, nation wide (April 2013)

*Vanderbilt University Darwin Day Speaker* (Hosted by Dean of the Commons; 2013, 2014, 2017, 2019)

*Vanderbilt University Academic Night Volunteer* (2013, 2015, 2016, 2020)

*School for Science and Math at Vanderbilt: Advisor of Students* – I advise high school students on primary research projects, including publishing in *The Young Scientist*, and giving tours to larger groups of high school students during summer sessions. (I have participated since 2012; in 2016 an advisee became 1 of 5 semi-finalists in Tennessee for the Siemens Competition in Math, Science, and Technology).

*Vanderbilt University Sustainable Sushi Event Speaker* – Invited guest speaker for a sustainable sushi talk, discussion, and sushi making event (2011).

### **Professional Service:**

*Society of Vertebrate Paleontology* – **Distinguished Lecturer for the Society of Vertebrate Paleontology** (2018-2020; solely responsible for North American venues; **Executive Committee, Member-at-Large 2019-2021**; **Chair of the Education and Outreach Committee** (2014-2019); Symposium Organizer for the 70<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology (2010) titled, *Advances in Paleoecology: Geochemistry, Microwear and Beyond*; Symposium Organizer for the 75<sup>th</sup> Annual Meeting (2015) titled, *Conservation Paleobiology: Insights into modern ecosystems from vertebrate records*; Symposium Organizer for the 79<sup>th</sup> Annual Meeting (2019) titled, *Quaternary Extinctions in the Asia-Pacific*. Organizer of the inaugural *Education and Outreach Poster Session* for the 70<sup>th</sup> Annual Meeting of the Society of Vertebrate Paleontology (2010); Organizer of the *Education and Outreach Poster Session* for the 71<sup>st</sup> Annual Meeting (2011), 72<sup>nd</sup> Annual Meeting (2012), 73<sup>rd</sup> Annual Meeting (2013), 75<sup>th</sup> Annual Meeting (2015), 76<sup>th</sup> Annual Meeting (2016), 77<sup>th</sup> Annual Meeting (2017), and 78<sup>th</sup> Annual Meeting (2018). I am also a member of the **Program Committee** (since 2015, we review all symposium proposals and over 200 abstracts annually) and a member of the **Romer Prize Committee** (2016-2019, we review all Romer Prize applications and judge the Romer Prize during the SVP meeting). **Virtual Meeting Committee for the 2020 & 2021 Virtual Meetings**.

*Geological Society of America* – Member; Symposium Organizer (2016) titled, *Making Paleoecology Relevant to the Twenty-first Century*. Former Student Representative of the Education & Outreach Committee (University of Florida)

*Paleontological Society* – Member; Selected Mentor, student mentor lunch for undergraduates (GSA, 2018); Requested to run for Member-at-Large in 2019 (Declined due to newly elected Society of Vertebrate Paleontology Member-at-Large position in 2019).

*American Quaternary Association* – Member, Judge of Student Poster Presentations (2016)

*Adventure Science Center Science Advisory Committee Member* – Science advisor for the Adventure Science Center during the renovation of their exhibit space. Many of my ideas are being considered for incorporation into the permanent exhibits, including the inclusion of natural history content and showcasing gender and ethnic minorities as scientists (2014-2017).

*National Museum of Natural History, Smithsonian Institution* – *External Advisor for the Paleontology Hall Renovations* – External science advisor for the renovations on the Paleontology Hall exhibits. I provide feedback on exhibit text and designs (2014-2019).

*Archeological Sciences of the Americas Symposium* – Co-hosted the 2012 meeting at Vanderbilt University in collaboration with Tiffany Tung from Anthropology (VU) and John Krigbaum from the University of Florida.

*AP Environmental Science Consultant* – AP Environmental Science Standard Setting panel for College Board (I was compensated for my participation, 2011).

*NEOTOMA (on-line database, www.neotomadb.org)* – Science Advisory Committee for the Geochemical Database Group; Science Advisory Board for Vertebrates; Co-organizing the development of a geochemical database hosted by and integrated into NEOTOMA, including communicating these goals via web materials (since 2010).

*IsoBank Advisory Committee* – I participate in the planning and development of IsoBank (an on-line isotope database that aims to be similar to "GenBank" but for isotope data). Currently there is not repository for stable isotope data (2019-present).

*Guest Editor*– *Proceedings of the National Academy of Sciences, USA* (peer-reviewed journal; see an [example](#); 2019-2020)

*Review Editor* – *Frontiers in Ecology and Evolution* (peer-reviewed journal; 2017-present)

*Journal Reviewer* – I review journal articles every year (~12-25+ per year) from the highest impact journals to more discipline specific journals including, the following:

*Acta Palaeontologica Polonica; Biological Conservation; Biological Reviews; Evolutionary Ecology; Geochimica et Cosmochimica Acta; Geological Journal; Journal of Biogeography; Journal of Dental Research; Journal of Evolutionary Biology; Journal of Human Evolution; Journal of Mammalogy; Journal of Paleontology; Journal of Vertebrate Paleontology; Mammal Review; Oikos; Paleobiology; Palaeogeography, Palaeoclimatology, Paleoecology; PLoS ONE; Proceedings of the National Academy of Sciences, USA;*

*Proceedings of the Royal Society, Biological Sciences; Science; Surface Topography: Metrology and Properties; Quaternary International; and, Quaternary Science Reviews.*

*Grant Reviewer* – I review a dozen or more grants every year for the following organizations:

M.J. Murdock Charitable Trust; National Science Foundation Reviewer (DEB, EAR, EAPSI, GK-12, MRI, and others including postdoctoral fellowships); National Science Foundation Panelist (DEB, GK-12); The Leakey Foundation; and several International Science Foundations (e.g., Germany, France, UK).

*External Ph.D. Reviewer* – I have served as an external Ph.D. reviewer (multiple times) for the University of New South Wales, Sydney, Australia.

*Consultant for Homeland Security* – I have helped identify fossils and consult on cases regarding fossil thefts for the Nashville, TN office of Homeland Security.

*Scientific Consultant* – I help communicate research, including my own, to the media including serving as a Science Advisor to production companies that have produced content for *National Geographic Wild*, *Showtime*, *Discovery*, and the *Smithsonian Channel*. I have also conducted numerous interviews for print, on-line, radio, and TV media (see Examples of News, Radio, and Television Media Regarding Research).

### **Community Service (Professional):**

Ask a Vanderbilt Paleontologist – (<https://www.youtube.com/watch?v=0LLoS5-2WB8>, virtual). The event featured paleontologists from Vanderbilt University's departments of Biological Sciences and Earth and Environmental Sciences, including Larisa DeSantis, Rachel Racicot, Neil Kelley, and Simon Darroch. (I conceptualized, pitched, drafted a press-release, and executed the event in consultation with the *Evolution Initiative*). See [press-release](#) (virtual, October 2020 in association with National Fossil Day).

*Tennessee Women in Science, Technology, Engineering, and Research (TWISTER)* – I participate in a woman in science event that engages high school women in inquiry-based paleontology activities, run through the Adventure Science Center. I have participated since 2016 (2016, 2018, 2020), all in person. In 2020 our workshop conveyed the broader impacts of two NSF grants, working with the database Neotoma, titled *CSI: Ice Age* (with Dr. Melissa Pardi).

*Vanderbilt's Research Experience for High School Students (REHSS)* - Research Exploration talk (virtual, June 2020).

*Tennessee School for the Blind* – Visit with graduate and undergraduate students and conduct inquiry-based hands-on discussions of the fossil record.

*Ravenwood High School* – I engage students in AP Biology classes (annually) in a discussion of evolution, paleoecology, and climate change. I also work with high school teachers to develop inquiry-based Biology and Anatomy activities that incorporate the fossil record and/or comparative anatomy (2010-2015).

*New Vision Academy* – I engage students in middle school science classes in inquiry based activities pertaining to paleontology, fossilization, and evolution. I also bring along graduate and undergraduate students, training students in educational outreach activities (including various inquiry-based activities).

*A variety of other local (Nashville area) preschools and K-12 public schools* – I (and undergraduate and graduate students) engage students in preK and K-12 schools in activities about fossils and paleontology, including Career Days.

*Mentor High School Students in Independent Research* – I have mentored seven high school students in independent research projects (4 outside of the *Vanderbilt School for Science and Math* program).

*Meet the Scientist event at Scitech in Perth, Australia* – An informal science education event in conjunction with an Australasian paleontology meeting (CAVEPS, 2010) to contribute to the public profile of paleontology in Australia.

*Community Service, Outreach, and Make a Wish Type Events* – I have met with sick children at the Vanderbilt Children's Hospital who wanted to meet a Paleontologist as part of wish granting community programs, participated in a STEM Fair at Harpeth Hall (in conjunction with the solar eclipse), and attended movie showings of *Jurassic Park* and bring fossils for "Ask a Paleontologists" activities (at the Franklin Theater).

Also, see: <https://www.desantislabs.com/outreach>; Note, all service listed was conducted while at Vanderbilt University.

## **EXAMPLES OF NEWS, RADIO, AND TELEVISION MEDIA REGARDING RESEARCH**

Also, see: <https://www.desantislab.com/news>

### **Examples of Expert Quotes:**

[Sabre-toothed tiger cub fossils may reveal family secrets](#), *CBC News* (January 17, 2021)  
[DNA Reveals the Real Lives of ‘Game of Thrones’ Dire Wolves](#), *New York Times* (January 13, 2021)  
[The Dire Wolf might have prowled Asia, fossil suggests](#), *New York Times* (October 15, 2020)  
[Giant reptiles once ruled Australia. Their loss sparked an ecological disaster](#), *Science* (October 11, 2019)  
[Canada’s first sabre-toothed cat fossil found in Medicine Hat](#), *CBC News* (October 4, 2019)  
[First hyena fossils found in the Arctic](#), *National Geographic* (June 18, 2019)  
[The Last Time CO2 Emissions Were This High the Arctic Had Palm Trees: It's Terrifying](#), *Newsweek* (February 25, 2019)  
[“Bone-Crushing” Dogs Left Evidence in Their Poop](#), *Scientific American* (September 1, 2018)  
[This Saber-Toothed Cat Mingled With Modern Humans](#), *National Geographic* (October 19, 2017)  
[Why is Australia so weird?](#) *Red Orbit* (June 3, 2015)

### **Examples of News Media Featuring Our Research:**

\*Only one example is listed per research article (see **Research Publications** for a more comprehensive list).

[Teeth offer clues to two ancient economies in Peru](#), *Archaeology* (December 17, 2020)  
[Not all saber-toothed animals were predators, fossils reveal](#), *National Geographic* (July 27, 2020)  
[How a saber-tooth marsupial blinded us with its bite](#), *New York Times* (July 9, 2020)  
[Un mamífero inesperado arroja datos sorprendentes sobre la vida de nuestros ancestros](#), *Radio Programas del Perú* (June 15, 2020)  
[Study details decline of Australia's quokkas](#), *United Press International* (February 24, 2020)  
[Fossils in La Brea Tar Pits reveal why coyotes still exist, but not saber-toothed cats](#), *CNN* (August 5, 2019)  
[Saber-toothed cats were fierce and family-oriented](#), *Science News* (**Feature**, in print and on-line, March 24, 2019)  
[Giant sloth’s 27,000-year-old fossils reveal conditions before extinction, research shows](#), *Fox News* (March 4, 2019)  
[Insights from the daily grind: what koala and kangaroo teeth can tell us](#), *PLOS* (September 4, 2018)  
[Climate change implicated in marsupial-lion extinction](#), *Nature* (October 23, 2018)  
[At the Ice Age Salad Bar](#), *Scientific American* (November 29, 2017)  
[Why did these lions eat 35 men? Bad teeth](#), *Science Magazine* (April 19, 2017)  
[Changing Climate, Not Humans, Killed Australia’s Massive Mammals](#), *Smithsonian Magazine* (January 26, 2017)  
[Are The Dire Wolves From Game Of Thrones Real Animals?](#), *Forbes* (May 4, 2016)  
[Black gold](#), *The Economist* (In print and on-line, Nov 9, 2013)  
[100 years later, Ice Age fossils still excavated in LA tar pits](#), *NBC News* (October 28, 2013)  
[Saber-Toothed Cat Extinction Not Caused By Starvation, Tooth Fossils Suggest](#), *The Huffington Post* (December 28, 2012)  
[Diversity helps mammals adapt to climate change](#) *Earth Times* (23 April 2012)  
[In Life's Race, Tapirs Took a Slow and Steady Pace](#), *Wired* (April 27, 2011)  
[Human role in big kangaroo demise](#), *BBC News*, (June 22, 2009)  
[Fossil Teeth Hint at Animal Adaptation to Global Warming](#), *Wired* (June 3, 2009)  
[Global warming may be killing palms](#), *United Press International* (August 7, 2006)

### **Featured in books and journal articles:**

[Q&A Larisa DeSantis. In press in 2021](#), *Current Biology* – An interview featuring my research (a high-impact journal, by invitation)  
*Mastodons to Mississippians: Adventures in Nashville’s Deep Past*, by Aaron Deter-Wolf and Tanya M. Peres (Our Smilodon work is featured in the chapter titled, *The Nashville Cat*; In press, anticipated publication: Fall 2021)  
*Rebels, Scholars, Explorers: Women in Vertebrate Paleontology*, by Annalisa Berta and Susan Turner (ISBN: 978-1421439709). See also: <https://www.youtube.com/watch?v=Vgu21M0Anto>, and [https://www.youtube.com/watch?v=FxRNDc9z\\_Xc](https://www.youtube.com/watch?v=FxRNDc9z_Xc). (Published in October 2019)  
[The Agony and Ecstasy of Cross-disciplinary Collaboration](#), *Science* – An interview featuring my interdisciplinary research (a high-impact journal, August 27, 2013)

## Relevant Radio and Television Appearances while at Vanderbilt University:

**The Wild Life (Podcast)** – Air date TBD – upcoming episode on quokkas.

**Curiosity Stream Documentaries** – I was featured in three similar documentaries based on my work on sabertooth cats. These include two Breakthrough Episodes (one in English and the other translated into Spanish, one of the few featured documentaries in two languages), and a larger show titled *Top Science Stories 2019*.

[Saber-Tooth Brawl](#) (English), [Lucha Entre Dientes De Sable](#) (Spanish), [Top Science Stories 2019](#)



**The Daily Planet (Discovery Channel Canada)** – April 19, 2017 Show

**Futureproof (Newstalk, supported by Science Foundation Ireland)** – *When lions eat humans*

([http://www.newstalk.com/podcasts/Futureproof/Futureproof\\_with\\_Jonathan\\_McCrea/188854/When\\_Lions\\_eat\\_humans\\_and\\_filmaker\\_Alexandra\\_Cousteau](http://www.newstalk.com/podcasts/Futureproof/Futureproof_with_Jonathan_McCrea/188854/When_Lions_eat_humans_and_filmaker_Alexandra_Cousteau); first aired on April 22, 2017)

**Voice of America** – *Ghost and the Darkness*

(<https://soundcloud.com/voa-english/de-capua-ghost-and-the-darkness-teeth-4-19-17>; first aired on April 19, 2017)

**KCBS News Radio (San Francisco, 106.9FM and 740 am)** – Live interview aired on April 20, 2017

**Field Museum of Natural History – Brain Scoop (Field Museum)** – *The Man-Eating Lions of Tsavo*

([https://www.youtube.com/watch?v=oHIekOP8\\_gE](https://www.youtube.com/watch?v=oHIekOP8_gE); First aired on August 24, 2016; also featured in the introduction to *Prehistoric Road Trip* starring Emily Graslie on PBS)

**National Geographic Wild** – *Future Cats*

First aired on November 30, 2014 at 9pm ET during the fifth annual *Cat Week*

(<http://channel.nationalgeographic.com/wild/big-cat-week/episodes/future-cat/>)

See also, press release by Vanderbilt on [myVU](#).

**Quirks and Quarks (Canadian Broadcasting Company)** – *Why Finicky Cats Went Extinct*

(<http://www.cbc.ca/quirks/2014/05/03/2014-05-03-3/>; first aired May 3, 2014)

**Scientific America - 60-Second Science Podcast** - *Dainty Diet Dictated Big-Feline Decline*

(<http://www.scientificamerican.com/podcast/episode/big-na-cats-doomed-by-diet/>; aired April 23, 2014)

**The Academic Minute (PRI)**

*Dr. Larisa R. G. DeSantis, Vanderbilt University – Megafauna Diets and Extinction*

(<http://www.wamc.org/post/dr-larisa-desantis-vanderbilt-university-megafauna-diets-and-extinction>; aired February 18, 2013; a modified version aired during the Vanderbilt Men's Basketball Game in 2013)

*Dr. Larisa R. G. DeSantis, Vanderbilt University - Mammalian Ecology in Deep Time*

(<http://wamc.org/post/dr-larisa-desantis-vanderbilt-university-mammal-survival-and-deep-time>; aired September 14, 2012)

**As It Happens (Canadian Broadcasting Company)** – *What Caused the Sabre-Tooth Tiger Extinction?*

(<http://www.cbc.ca/asithappens/features/2012/12/27/what-caused-the-sabre-tooth-tiger-extinction/>; aired in 2012)

**Up All Night (BBC Radio 5 Live)** – Interview aired on January 2<sup>nd</sup>, 2013 (no longer available on-line)

**Channel One News - Tennessee Evolution Law** (<http://www.channelone.com/video/tennessee-evolution-law/#oid=50cDhpNDR6joeCPzFWTzujurnLSMy9Ic>; aired in 2012)

**To the Point with Warren Olney - Academic Freedom versus Science** (Aired April 10, 2012)

([http://www.kcrw.com/news/programs/tp/tp120410academic\\_freedom\\_ver](http://www.kcrw.com/news/programs/tp/tp120410academic_freedom_ver))

I was one of five individuals featured on this hour-long radio show.

**41 – An HBO documentary about President George H.W. Bush** (Aired in 2012)

I appear in the film, as the former National Poster Child of the Epilepsy Foundation of America.

\* I have also consulted about content for televised shows and/or appeared on shows for **National Geographic Wild, HBO, Showtime, and Discovery**. I am currently in conversations about a TEDx Nashville talk, a featured talk at the Nashville Zoo, and several podcast appearances (e.g., *Paleocast, The Wildlife Life*).