

**MAGDALENA N. MUCHLINSKI, Ph.D.**

**Associate Professor - Tenured**

University of North Texas • Center for Anatomical Sciences  
3500 Camp Bowie Blvd., RES 232C • Fort Worth, Texas • 76107  
Phone 512-789-5753 • Fax 817-735-2126 • magdalena.muchlinski@unthsc.edu

---

**EDUCATION**

---

**University of Texas at Austin**, Austin, TX  
Ph.D., Biological Anthropology 2008  
M.A., Biological Anthropology 2002

**University of California, Santa Cruz**, Santa Cruz, CA  
B.A., Anthropology *Honors* 1999

---

**RESEARCH INTERESTS**

---

Primate physiology and energetics, feeding ecology, functional morphology of the head and neck, sensory ecology, primate fossil record, and primate evolution.

---

**PROFESSIONAL APPOINTMENTS**

---

<b>Associate Professor</b> – University of North Texas	2016 – Present
<b>Associate Professor (with tenure)</b> – University of Kentucky	2015 – 2016
<b>Assistant Professor</b> – University of Kentucky	2011 – 2014
<b>Assistant Professor</b> – Marshall University School of Medicine	2009 - 2010
<b>Lecturer</b> – Baylor University	2008 - 2009
<b>Lecturer</b> – University of Texas at Austin	2007
<b>Lecturer</b> – Sophie Davis School of Medicine, City College of New York	2004
<b>Teaching Assistant</b> – University of Texas at Austin	2000 – 2008
<b>Teaching Assistant</b> – University of California, Santa Cruz	1998-2000

---

**GRANTS AND FELLOWSHIPS**

---

<b>2016</b>	Undergraduate Research Abroad Grant – With Holden Hemingway	<b>\$6,000</b>
<b>2015</b>	Faculty Development Workshop Grant - Blending learning workshop support. Office of eLearning at the University of Kentucky, Lexington.	<b>\$4,000</b>
<b>2014</b>	National Science Foundation – Social Science Division – Biological Anthropology Skeletal muscle constraint on relative brain size. PI: Magdalena Muchlinski	<b>\$191,666</b>
	Collaborative-PIs	
	Rui Diogo (Howard University)	\$18,724
	Adam Hartstone-Rose (University of South Carolina)	\$33,546
<b>2014</b>	padlette.com: eLearning Equipment Support Grant	<b>\$1,200</b>
<b>2014</b>	Academic Planning, Analytics & Technologies: eLearning Innovation Initiative <i>Hybrid Learning Course Redesign</i>	<b>\$34,989</b>
<b>2014</b>	Center for the Enhancement of Learning and Teaching <i>Reevaluating, renovating, and rebooting "Anatomy and Physiology for Nursing Students"</i>	<b>\$6,000</b>
<b>2013</b>	Undergraduate Research Abroad Grant – With Heidi Vollrath	<b>\$5,000</b>
<b>2013</b>	Research support grant – University of Kentucky, Lexington <i>Primates are all brain and no brawn: An investigation into tissue tradeoffs.</i>	<b>\$14,757</b>

<b>2012</b>	National Science Foundation – Social Science Division – Anthropology Collaborative research: A histological and CT study of midfacial growth trajectories in subadult primates. PI: Timothy Smith; CO-PIs: Magdalena N Muchlinski, James Rossie, Michael Zumpano	<b>\$168,196</b>
<b>2010</b>	National Science Foundation – Summer Undergraduate Research Experience	<b>\$5,000</b>
<b>2010</b>	National Science Foundation: ADVANCE Mini-Grant	<b>\$1,000</b>
<b>2009</b>	National Science Foundation Faculty Fellowship - Marshall University	<b>\$10,000</b>
<b>2009</b>	National Science Foundation ADVANCE Mini-Grant	<b>\$1,000</b>
<b>2008</b>	California Institute for Quantitative Biosciences Research Grant	<b>\$61,950</b>
<b>2007</b>	University of Texas, A. D. Hutchison Student Endowment Fellowship P.E.O. Scholar Award University of Texas, Professional Development Award	<b>\$25,883</b> <b>\$10,000</b> <b>\$983</b>
<b>2006</b>	NSF - Dissertation Improvement Grant	<b>\$11,898</b>
<b>2006</b>	Field Museum of Natural History Visiting Scholar Award	<b>\$2,000</b>
<b>2005</b>	Texas Academic Sustainability Grant	<b>\$720</b>
<b>2002</b>	National Science Foundation GK-12 Fellowship	<b>\$40,000</b>
<b>2002</b>	Liberal Arts Graduate Research Fellowship	<b>\$2,000</b>
<b>2001</b>	Liberal Arts Graduate Research Fellowship	<b>\$1,879</b>
<b>2001</b>	Texas Public Education Grant	<b>\$5000</b>
<b>1999</b>	Diablo Valley Undergraduate Scholarship	<b>\$30,000</b>

**In Preparation Grant Applications – submit date November 15<sup>th</sup> 2016**

National Science Foundation – Biological Sciences – Biological Infrastructure Collaborative Grant: Visual Ape Project PI: Andrew Deane; Co-PIs: Magdalena N Muchlinski and Jason Organ	<b>\$161,492</b>
--	------------------

---

**HONORS AND AWARDS**

---

<b>2016</b>	Silver Podium Award for Outstanding First Year Course - MD814 – University of Kentucky, College of Medicine.
<b>2012-2015</b>	Holsinger Teaching Award – Department of Anatomy – University of Kentucky, Lexington
<b>2014</b>	Teachers Who Made a Difference – University of Kentucky College of Education
<b>2013</b>	Teachers Who Made a Difference – University of Kentucky College of Education
<b>2013</b>	Educational Innovation and Curriculum Development – Abraham Flexner Master Educator Award
<b>2013</b>	Outstanding Teaching Contribution and Mentorship – Abraham Flexner Master Educator Award
<b>2013</b>	Education and leadership and Administration – Abraham Flexner Master Educator Award
<b>2013</b>	Teaching Excellence in Support of Professional Nursing Award – University of Kentucky, College of Nursing
<b>2012</b>	Named one of the top 100 nursing professors in the USA – by BSN to MSN
<b>2012</b>	Teachers Who Made a Difference – University of Kentucky College of Education
<b>2011</b>	AnthroTree Workshop – National Science Foundation, NASA, and Harvard workshop – NSF (BCS-0923791) and the National Evolutionary Synthesis Center (NSF grant EF-0905606).
<b>2007</b>	Texas Biological Anthropology Consortium – Student Prize
<b>2007</b>	Society of Vertebrate Paleontology – Student Prize
<b>2007</b>	International Prosimian Congress – Student Prize
<b>2007</b>	University of Texas at Austin- Professional Development Award
<b>2006</b>	American Society of Primatology – Student Prize
<b>2005</b>	American Association of Physical Anthropology - Mildred Trotter Award: Student prize
<b>2004</b>	The University of Texas at Austin, College of Liberal Arts Teaching Assistant Award of Excellence
<b>2002</b>	University of Texas Institute of Geophysics- Student research prize
<b>2001</b>	National Science Foundation Graduate Fellowship: honorable mention
<b>2000</b>	The First International Conference on Primate Origins: Travel award from Northwestern University, Chicago, Illinois

- 1999 Sherwood Washburn Award. Awarded to outstanding undergraduate thesis presentations and associated thesis paper. University of California, Santa Cruz, Department of Anthropology
- 1996 University of California student employee of the year

---

## PEER REVIEWED PUBLICATIONS

---

### Manuscripts

1. **Muchlinski MN** and Kirk EC. **2016 (in press)**. A comparative analysis of infraorbital foramen size in Paleogene euarchontans. *Journal of Human Evolution*
2. **Muchlinski MN** and Deane AS. **2016**. Dietary correlates associated with the mental foramen in primates. *Anatomical Records*. DOI: 10.1002/jmor.20553
3. Spriggs A, **Muchlinski MN**, Gordon A. **2016**. Does the primate pattern hold up? Testing the functional significance of infraorbital foramen size variation among marsupials. *American Journal of Physical Anthropology* 160(1): 30–40.
4. Smith TD, **Muchlinski MN**, Jankord K, Progar A, Bonar C, Evans S, Williams L, Keeling ME, Vinyard C, DeLeon, V. **2015**. Dental maturation, eruption, and gingival emergence in the upper jaw of newborn primates. *Anatomical Records* 298(12): 2098-2131. DOI: 10.1002/ar.23273
5. Diogo R, **Muchlinski MN**, Hartstone-Rose A. **2015**. Comparative primate anatomy. In: Simon M and Abelson J (eds.), *Elsevier's Encyclopedia of Human Biology (3rd Ed.)*, Elsevier (New York, US). Published exclusively on-line on Elsevier's Science Direct platform.
6. Smith TD, **Muchlinski MN**, Bhatnagar KP, Durham EL, Bonar CJ, Burrows AM. **2014**. The vomeronasal organ of *Lemur catta*. *American Journal of Primatology*. DOI: 10.1002/ajp.22326
7. Deane AS, Russo G, **Muchlinski MN**, Organ JM. **2014**. Can caudal vertebral body articular surface shape discriminate among prehensile and non-prehensile tailed anthropoids? *Journal of Morphology*. DOI: 10.1002/jmor.20304
8. **Muchlinski MN** and Deane AS. **2014**. How strong is the frugivory signal? The interpretive power of infraorbital foramen area in making dietary inferences in extant apes. *Anatomical Record*. DOI: 10.1002/ar.22953
9. Diogo R, Pastor JF, de Paz F, Barbosa MM, Hartstone-Rose A, **Muchlinski MN**. **2014**. *Baby gorilla: photographic and descriptive atlas of the skeleton, muscles and internal organs - including CT scans and comparisons to other gorillas and primates*. Taylor & Francis (Oxford, UK). 92 pages
10. **Muchlinski MN**. 2013. Uncovering the Secrets of Madagascar: Lemur Conservation. *Kentucky Academy of Science*.
11. **Muchlinski MN**, Durham EL, Smith TD, Burrows AM. **2013**. Comparative histomorphology of intrinsic musculature of vibrissae among primates: implications for sensory ecology. *American Journal of Physical Anthropology*. 150(2): 301-312. DOI: 10.1002/ajpa.22206
12. **Muchlinski MN**. **2013**. The ecology of touch: Are prosimians special? In: Masters J, Gamba M, Génin F, editors. *Leaping Ahead: Advances in Prosimian Biology*. New York: Springer. p. 227-236.
13. **Muchlinski MN**, Snodgrass JJ, and Terranova CJ. **2012**. Muscle mass scaling in primates: An energetic and ecological perspective. *American Journal of Primatology* 74:395-407.
14. Cummings J, **Muchlinski MN**, Kirk EC, Rehorek SJ, DeLeon VB, Smith TD. **2012**. Eye size at birth in prosimian primates: life history correlates and growth patterns. *PLoS One* 7(5):e36097.
15. **Muchlinski MN**. **2012**. Primate origins: connecting the dots between ecology, behavior, and anatomy. *Journal of Primatology* 1: e110. doi:10.4172/jpmt.1000e110
16. **Muchlinski MN**, Godfrey LR, Muldoon KM, Tongaso L. **2011**. Evidence for dietary niche separation based on infraorbital foramen size variation among subfossil lemurs. *Folia Primatologica*. 81(6): 330-345
17. **Muchlinski MN** and Perry J. **2011**. Anatomical correlates to nectar-feeding among the strepsirhines of Madagascar: Implications for interpreting the fossil record. *Anatomy Research International special issue titled: New Models and Insights into Primate Evolutionary Morphology* Article ID 378431, 17 pages doi:10.1155/2011/378431.
18. **Muchlinski MN**, Paesani SM, Burrow AM, Smith TD, Alport LJ. **2011**. Behavioral and ecological consequences of sex based differences in taste bud densities in *Cebus apella*. *Anatomical Records* 294(12): 2179-2192.

19. Organ JM, **Muchlinski MN**, Deane AS. **2011**. Mechanoreceptivity of prehensile tail skin varies between atelines and *Cebus*. *Anatomical Records* 294(12): 2064-2074.
20. **Muchlinski MN**. **2010**. Ecological correlates of infraorbital foramen area in primates. *American Journal of Physical Anthropology*. 141(1): 131-141
21. Raichlen D, Gordon AD, **Muchlinski MN**, Snodgrass JJ. **2010**. Exceptions prove the rule: Residual variation in mammalian basal metabolism is explained by fractal models of blood supply. *Journal of Comparative Physiology B* 180:301-311
22. **Muchlinski MN**. **2010**. A comparative analysis of vibrissa count and infraorbital foramen area in primates and other mammals. *Journal of Human Evolution* 58: 447-473
23. **Muchlinski MN**. **2008**. The infraorbital foramen, infraorbital nerve, and maxillary mechanoreception: Implications of interpreting the paleoecology of fossil mammals based on infraorbital foramen size. *The Anatomical Record* 291:1221-1226

---

#### Submitted Manuscript

---

1. **Muchlinski MN** and Franklin SR. **Submitted**. With a little help from my friends: The implications of group learning on exam performance. *Anatomical Sciences Education*.
2. Smith TD, **Muchlinski MN**, Vinyard CJ, Bonar CJ, Evans S, Williams L, DeLeon VB. **Submitted**. Relative tooth size at birth in primates: Life history and dietary correlates. *Anatomical Records*.

---

#### Manuscript in Preparation

---

1. **Muchlinski MN** and Hemingway H. **In Preparation**. Muscle is not created equally, non-functional correlates to muscle composition. *Anatomical Records (special issues)*
2. **Muchlinski MN**. **In Preparation**. Ligament of the Head of Femur in Orangutans: A review of its anatomy, function, and development. *American Journal of Physical Anthropology*.

---

#### PEER REVIEWED PUBLISHED ABSTRACTS

---

1. Hemingway H and **Muchlinski MN**. 2016. Muscle is not created equally, non-functional correlates to muscle composition. *International Congress of Vertebrate Morphology*.
2. Smith TD, **Muchlinski MN**, Vinyard CJ, Bonar CJ, Evans S, Williams L, DeLeon VB. 2016. Relative tooth size at birth in primates: Life history and dietary correlates. 85<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology, Atlanta, Georgia.
3. Snowden K, Bistrekova V, Hays L, Witt W, Miller M, **Muchlinski MN**, Organ J, Abshire S, Butterfield T, and Deane AS. 2015. Growing up woolly: Infant riding and the ontogenetic scaling of forelimb and hindlimb musculature of Humboldt's woolly monkey (*Lagothrix lagotricha*). *American Association of Physical Anthropology*
4. Ficorilli CM, DeLeon VB, **Muchlinski MN**, Powell EE, Bonar CJ, Vinyard CJ, and Smith TD. 2015. Developmental Patterns of the Face in Perinatal Primates: A Micro-CT and Histology Study. *American Association of Anatomists*
5. **Muchlinski MN**, Vollrath H, Hemingway H. 2015. Mind over matter: An ontogenetic perspective. 38<sup>th</sup> Meeting of the American Society of Primatologists.
6. **Muchlinski MN**, Smith TD, Li L, Durham A, Burrows A. 2015. Are Tarsiers fast or slow? A comparison of the triceps surae muscle and muscle fibers. 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology.
7. Snowden KA, Bistrekova L, Hays L, Witt WS, Miller M, **Muchlinski MN**, Organ J, Abshire S, Butterfield T, Deane AS. 2015. Growing up woolly: Infant riding and the ontogeny of forelimb and hindlimb musculature of Humboldt's woolly monkey (*Lagothrix lagotricha*). 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology.
8. Vollrath H and **Muchlinski MN**. 2014. *The relationship between brain size and muscle mass among Primates*. 99<sup>th</sup> annual meeting of the Kentucky Academy of Sciences (KAS) 11/15/2014
9. Steenkin M and **Muchlinski MN**. 2014. Standardization issues for the measurement of mammalian body composition. 99<sup>th</sup> annual meeting of the Kentucky Academy of Sciences (KAS) 11/15/2014
10. Hemingway H, **Muchlinski MN**, and Deane AS. 2014. Are tarsiers fast or low? A comparative analysis of muscle fiber type of the hindlimb. 99<sup>th</sup> annual meeting of the Kentucky Academy of Sciences (KAS) 11/15/2014

11. **Muchlinski MN**, Alport LA, Burrows AM. **2014**. Anatomical and ecological correlates of the primate gustatory system: it is a matter of taste. *International Journal of Primatology*.
12. **Muchlinski MN** and Deane AS. **2014**. Standardization issues for the measurement of mammalian body composition. *American Journal of Physical Anthropology*.
13. **Muchlinski MN**, Vollrath H, Diogo R, Hartstone-Rose A. **2013**. Tissue trades offs – Mind over matter. *International Comparative Vertebrate Morphology. Anatomical Records*.
14. **Muchlinski MN** and Vollrath H. **2013**. Tissue trades offs – Mind over matter. *American Society of Primatology*.
15. Hays L, Wheeler V, **Muchlinski MN**, Organ J, Abshire S, Butterfield T, and Deane AS. **2013**. Preliminary results from analyses of the comparative and functional anatomy of the forelimb musculature of Humboldt's woolly monkey (*Lagothrix lagotricha*). *American Journal of Physical Anthropology*.
16. **Muchlinski MN**, Durham EL, Smith TD, Parr LA, Burrows AM. **2013**. To whisk or not to whisk: Implication of proportions of myosin fiber type on the functional anatomy of vibrissa musculature in primates. *American Journal of Physical Anthropology. Sup 56: 201-202*
17. Nevell L, **Muchlinski MN**, Diogo R. **2013**. Sleep may provide a molecular model of the functional impact of increasing brain size. *American Journal of Physical Anthropology. Sup 56: 206*
18. **Muchlinski MN** and Deane AS. **2012**. How strong is the frugivory signal? The interpretive power of infraorbital foramen area in making dietary inferences in extant apes. 98th annual meeting of the Kentucky Academy of Sciences (KAS) 10/20/2012
19. Hays L, Wheeler V, **Muchlinski MN**, Organ J, Abshire S, Butterfield T, and Deane AS. **2012**. Preliminary results from analyses of the comparative and functional anatomy of the forelimb musculature of Humboldt's woolly monkey (*Lagothrix lagotricha*). 98th annual meeting of the Kentucky Academy of Sciences (KAS) 10/20/2012
20. **Muchlinski MN**, Nevell L, Diogo R, Snodgrass JJ. **2012**. Primates are all brain and little brawn: a preliminary investigation into tissue tradeoffs. *American Journal of Physical Anthropology. 147(S54): 219*.
21. Deane AS, Organ JM, **Muchlinski MN**. **2012**. Can caudal vertebral body articular surface shape discriminate among prehensile and non-prehensile tailed anthropoids? *American Journal of Physical Anthropology. 147(S54): 127*
22. Spriggs AN, **Muchlinski MN**, Gordon AD. **2012**. Does the primate pattern hold up? Testing the functional significance of infraorbital foramen size variation among marsupials. *American Journal of Physical Anthropology. 147(S54): 276*
23. White K, Achenjang J, Jones G, Organ JM, **Muchlinski MN**, and Deane AS. **2012**. Hanging by a limb: using non-invasive methods to evaluate ontogenetic changes in muscle mass in the limbs of a *Lagothrix lagotricha*. *American Journal of Physical Anthropology. 147(S54): 302*
24. Smith TD, Cummings JR, **Muchlinski MN**, Kirk EC, Rehorek SJ, Deleon VB. **2012**. Relative eye size at birth in strepsirrhines and Tarsius: life history correlates and growth patterns. *American Journal of Physical Anthropology. 147(S54): 273*
25. Burrows AM, Durham EL, Smith TD, **Muchlinski MN**. **2012**. Comparative examination of vibrissa musculature among primates. *International Journal of Primatology*.
26. **Muchlinski MN** and Paesani SM. **2011**. Behavioral and ecological consequences of sex based differences in taste bud densities in *Cebus apella*. Special Senses Symposium – *American Journal of Physical Anthropology. 114(52): 220*
27. Spriggs AN, **Muchlinski MN**. **2011**. Living hand to mouth: What marsupials can tell us about the evolution of touch in primates. Special Senses Symposium – *American Journal of Physical Anthropology. 114(52): 282*
28. Organ JM, **Muchlinski MN**, Deane AS. **2011**. Mechanoreceptivity of prehensile tail skin varies between atelines and *Cebus*. *American Journal of Physical Anthropology. 114(52): 230*
29. **Muchlinski MN**, Durham EL, Smith TD, Burrows AM. **2011**. Comparative examination of vibrissa musculature among primates. *American Journal of Primatology. 73(S1): 111*
30. Achenjang J, Deane A, **Muchlinski MN**. **2011**. Hanging by a limb: Using non-invasive methods to evaluate ontogenetic changes in muscle mass in the limbs of a *Lagothrix lagotricha*. *Kentucky Journal of Anthropology and Sociology 2(1): 16*

31. **Muchlinski MN. 2011.** Primates are all brain and little brawn: The expensive tissue hypothesis. *Kentucky Journal of Anthropology and Sociology* 2(1):8
32. **Muchlinski MN, Burrow AM, Smith TD, Alport LJ. 2010.** Variation in lingual fungiform papillae taste buds among primates. *American Journal of Physical Anthropology*. S50: 173-174
33. **Muchlinski MN and Snodgrass JJ. 2010.** Causes and consequences of hypomuscularity in primates. *American Journal of Primatology*. 72(S1): 31
34. **Muchlinski MN. 2009.** From hand to mouth: Assessing the placement of plesiadapiforms among euarchontans. *American Journal of Physical Anthropology*. S48: 195
35. Godfrey LR, **Muchlinski MN**, Muldoon KM, Tongaso L. **2009.** Dietary implications of relative infraorbital foramen size in the subfossil lemurs of Madagascar. *American Journal of Physical Anthropology*. S48: 135
36. Raichlen DA, Gordon AD, **Muchlinski MN**, Snodgrass JJ. **2009.** Variation in Primate Basal Metabolism: Explanations and Implications for Life History. *American Journal of Physical Anthropology*. S48: 216
37. **Muchlinski MN. 2007.** The anatomical relationship among the infraorbital foramen and infraorbital nerve: Validating the use of infraorbital foramen size to infer ecology. *American Journal of Physical Anthropology*. S44: 174-175
38. **Muchlinski MN. 2007.** Ecological correlates of infraorbital foramen size: Exploring dietary diversity among European Adapiformes. *Journal of Vertebrate Paleontology*. 27(3): 121 **\*Award winning presentation\***
39. **Muchlinski MN. 2007.** Vibrissae and the importance of mechanoreception during foraging. Proceedings of the *International Prosimian Conference. Folia Primatologica*. Sensory Ecology Symposium: International Prosimian 23 Congress, Ithala, South Africa. **\*Award winning presentation\***
40. **Muchlinski MN. 2007.** Ecological correlates of infraorbital foramen size: Exploring dietary diversity among European Adapiformes. *Texas Biological Anthropologists Consortium* **\*Award winning presentation\***
41. **Muchlinski MN. 2006.** The anatomy of the infraorbital foramen: Implications for interpreting the ecology of extant and extinct taxa. *American Journal of Primatology* 68(S1): 155 **\*Award winning presentation\***
42. **Muchlinski MN. 2005.** Ecological and morphological correlates of the infraorbital foramen and its paleoecological implication. *American Journal of Physical Anthropology* S40: 154 **\*Award winning presentation\***
43. **Muchlinski MN. 2004.** Using SEM to qualitatively identify structural differences in the hairs of nectar-feeding prosimians. *American Journal of Physical Anthropology* S38: 149-150
44. Palmer AK and **Muchlinski MN. 2003.** Does hearing play a role in insect predation? An assessment of the relationship between external ear morphology and foraging behaviors in nocturnal prosimians. *American Journal of Physical Anthropology* S36: 163
45. **Muchlinski MN, Snodgrass JJ, and Terranova CJ. 2003.** Prosimian body composition. *American Journal of Physical Anthropology* S36: 155
46. **Muchlinski MN. 2002.** Anatomical correlates to nectar feeding within the Strepsirhines of Madagascar. *American Journal of Physical Anthropology*. S34: 115
47. **Muchlinski MN and Overdorff D. 2001.** Flowers and foliage: How important are these to Malagasy lemurs? *American Journal of Primatology*. 54(S1): 36

---

Submitted Abstracts

---

1. **Muchlinski MN. Submitted.** An ontogenetic perspective of the energetic constraints of brain growth on muscle mass. American Association of Physical Anthropology.
2. Holden Hemingway and **Muchlinski MN. Submitted.** Quinticeps? Investigating a possible fifth head of the quadriceps femoris in non-human primates. American Association of Physical Anthropology.
3. Zeigler LM, Paddock KA, Ficorilli CM, Millen M, Harvey B, Hogg RT, Vinyard CJ, **Muchlinski MN**, DeLeon VB, Smith TD. **Submitted.** Phylogenetic influences on tooth mineral density in primates. *Anatomical Records*. Abstract – AAA
4. Paddock KA, Zeigler LM, Ficorilli CM, Millen M, Harvey B, Hogg RT, Vinyard CJ, **Muchlinski MN**, DeLeon VB, Smith TD. **Submitted.** Tooth mineral density in primates: are dietary adaptations present at birth? *Anatomical Records*. Abstract – AAA

---

## OTHER PUBLICATIONS

---

1. **Muchlinski, MN.** 2014. Cadaver Based Laboratory Manual for Nursing Students – Volume 2. Preston Publishing. St. Louis, Missouri
2. **Muchlinski, MN.** 2013. Cadaver Based Laboratory Manual for Nursing Students – Volume 1. Preston Publishing. St. Louis, Missouri
3. **Muchlinski, MN.** 2012. Anatomy and Physiology – Volume 2. Preston Publishing. St. Louis, Missouri
4. **Muchlinski, MN.** 2011. Anatomy and Physiology – Volume 1. Preston Publishing. St. Louis, Missouri

---

## MEDIA CONSULTING & PUBLICITY

---

- 2013** Interviewed/Consulted for New Scientist magazine ([www.newscientist.com](http://www.newscientist.com)) – Primate Origins
- 2013** Research highlighted in the Kentucky Academy of Science newsletter - Janssen M. 2013. Research in Evolutionary Themes III: Primate Diet & Anatomy.
- 2011** Consultant for Terra Xpress – Nature Show  
Episode 1: Hair

---

## INVITED PRESENTATIONS

---

- 2015** *Mind over matter* – University of Southern California, Los Angeles California – Department of Cell Biology (2-01)
- 2014** National Conference for Undergraduate Research –The Relationship Between Brain Size and Muscle Mass Among Primates by Heidi Vollrath and Magdalena Muchlinski (4-04<sup>th</sup>)
- 2014** Posters-at-the-Capitol –The Relationship Between Brain Size and Muscle Mass Among Primates by Heidi Vollrath and Magdalena Muchlinski (2-27)
- 2013** *Teaching in a large format class* – University of Kentucky – Department of Anatomy (5-20)
- 2013** *The lemurs of Madagascar* - University of Kentucky – Department of Anthropology (5-20)
- 2013** *Primates: Fat, not fit* - Brooklyn College, Brooklyn NY – Department of Anthropology (3-11)
- 2012** *Mind over matter: the evolution of the primate brain.* Kentucky Paleontology Society (7-27)
- 2012** *Early primate evolution.* University of Kentucky – Department of Anthropology (5-05)
- 2012** *Fat or fit? Primate body composition and its evolutionary implications* – University of Kentucky – Department of Anthropology “Archeology Round Table”
- 2011** *The expensive tissue hypothesis: body composition in primates* – University of Kentucky – Department of Physiology “Muscle Forum”
- 2011** *Evolutionary medicine* – Marshall University – Department of Anatomy and Pathology
- 2010** *Articulations* – University of Kentucky, Lexington – Department of Anatomy and Neurobiology
- 2010** *The evolution of the primate gustatory system.* - Hunter College, New York NY – Department of Anthropology
- 2010** *The sensual side of ecology* - Brooklyn College, Brooklyn NY – Department of Anthropology
- 2010** *Touch and taste – A functional exploration into the primate sensory system.* University of Kentucky, Lexington – Department of Anatomy and Neurobiology
- 2010** *An introduction to primate sensory ecology* - Dr. Suzanne Strait’s Mammalogy Course – Marshall University, Huntington, WV
- 2009** *The human body and the anatomical gift registry.* Boyd County High School – Ashland, KY
- 2009** *The primate hand.* University of Texas at Austin – Department of Anthropology.
- 2009** *Comparative analysis of the primate forelimb* University of Texas at Austin – Department of Anthropology.
- 2009** *Ecological and Morphological Correlates of Infraorbital Foramen Size and its Paleocological Implication.* Marshall University, Huntington, West Virginia.
- 2008** *The Ecology and Evolution of Touch in Primates.* St. Louis University, School of Medicine, Missouri.
- 2008** *The peritoneal cavity and the gastrointestinal tract.* St. Louis University, School of Medicine, Missouri.
- 2008** *The Respiratory System.* New York Chiropractic College, New York.

- 2008 *The digastric triangle and submandibular region.* New York Chiropractic College, New York.
- 2008 *Women in Science.* Fundraising banquet for PEO member in the western United States – Arizona.
- 2007 *The anatomy of the infraorbital foramen: Implications for interpreting the ecology of living and extinct mammals.* PEO CR Chapter, Austin, Texas.
- 2007 *How a hole in the head can change our understanding of primate evolution.* “Founder’s Day” an educational fundraiser organized by the PEO HYchapter, Georgetown, Texas.
- 2006 *Primate evolution: Reconstructing the fossil record.* Dr. Katherine Whitcome’s Introduction to Physical Anthropology course. Austin, Texas
- 2003 *Making science fun and accessible.* Guest lecture for GK-12 teachers at Bertha Casa Elementary School, Austin, Texas.
- 2003 *What is inquiry based learning anyhow?* University of Texas Institute for Geophysics Conference. Austin, Texas
- 2003 *Uncovering the secrets of Madagascar from the ground up: Inquiry based learning module for grades 4-6.* NSF GK-12 conference. Port Aransas, Texas
- 2002 *Prosimian body composition.* LSB Leakey Foundation Annual Meeting.
- 2002 *Uncovering the secrets of Madagascar from the ground up.* University of Texas Institute for Geophysics Conference. Austin, Texas **\*Award Winning Presentation\***

---

## TEACHING EXPERIENCE, COURSES TAUGHT, MENTORING

---

### Courses taught

---

2016	MEDE.7615 – Musculoskeletal System	University of North Texas
2016	MEDE.7615 – Cardiopulmonary System	University of North Texas
2016	MEDE 7611 – Gastrointestinal / Renal System	University of North Texas
2016	MEDE 7812 – Neuron Anatomy	University of North Texas
2016	MPAS 5401 – Clinical Gross Anatomy	University of North Texas
2016	MPHT 7400 – Clinical Gross Anatomy	University of North Texas
2015	ANA 503 Independent Work in Anatomy	University of Kentucky
2014 - 2016	MD 814 Clinical Gross Anatomy and Embryology for Medical Students	University of Kentucky
	MD 822 Musculoskeletal System for Medical Students	University of Kentucky
2013 - 2016	ANA 609 Educational Strategies in Anatomical Sciences	University of Kentucky
2012	Comparative Functional Morphology (Field Course)	Maderas Rainforest Conservancy
2011 - 2016	Dental Clinical Gross Anatomy	University of Kentucky
	Anatomy and Physiology for Nurses (ANA 109)	University of Kentucky
	Anatomy and Physiology for Nurses (ANA 109)	University of Kentucky
2009 – 2011	Clinical Gross Anatomy and Embryology	Marshall University
2009	Primate Behavior	Baylor University
2007	Introduction to Physical Anthropology	University of Texas at Austin
2004	Human Gross Anatomy	City University of New York

---

### Lab Instructor/Teaching Assistant

---

2008-2001	Primate Anatomy	University of Texas at Austin
2007-2000	Introduction to Physical Anthropology	University of Texas at Austin
2005	Primate Ecology	University of Texas at Austin



2005	Sensory Ecology	University of Texas at Austin
2000-1998	Human Anatomy	University of California, Santa Cruz
2000	Human Evolution	University of California, Santa Cruz
2000	Introduction to Archaeology	University of California, Santa Cruz
2000	Primate Behavior	University of California, Santa Cruz
1999	Human Osteology	University of California, Santa Cruz
1999	Introduction to Physical Anthropology	University of California, Santa Cruz

---

## ADVISING & MENTORING POSITIONS

---

### Directed Student Learning

#### Mentorship/Advising Mentoring Codes

- (1) ANA 395 – Independent study with defined meetings and course requirements
- (2) Research Mentor and Research Assistant
- (3) Student Employee – Paid and mentored laboratory teaching assistant
- (4) Student Employee – Mentored eLearning module development
- (5) Medical student summer research internship
- (6) Student Employee - Sponsored Research Assistant

#### University of Kentucky - Lexington, Kentucky

Fall 2012	Undergraduate Honor Program Mentor: Heidi Vollrath (1)
Fall 2012	Undergraduate Honor Program Mentor: Emily Rodgers (1)
Fall 2012	Undergraduate Honor Program Mentor: Leah Woods (1)
Spring 2013	Undergraduate Honor Program Mentor: Heidi Vollrath (2)
Fall 2013	Undergraduate Honor Program Mentor: Heidi Vollrath (2)
Fall 2013	Development of Undergraduate Laboratories: Victoria Cherolis (3)
Fall 2013	Development of Undergraduate Laboratories: Leah Woods (3)
Fall 2013	Development of Undergraduate Laboratories: Sydney Tripp (3)
Fall 2013	Development of Undergraduate Laboratories: Jelena Popovic (1)
Fall 2013	Development of Undergraduate Laboratories: Patrick Kelly (1)
Fall 2013	Development of Undergraduate Laboratories: Brianna Hill (1)
Spring 2014	Undergraduate Honor Program Mentor: Heidi Vollrath (2)
Spring 2014	Independent Research: Madison Tacket (1)
Spring 2014	Independent Research: Charlotte E O'Connell (1)
Spring 2014	Independent Research: Brianna Hill (1)
Spring 2014	eLearning Module Development: Patrick Kelly (4)
Spring 2014	Development of Undergraduate Laboratories: Darrian Shorey (3)
Spring 2014	Development of Undergraduate Laboratories: Leah Woods (3)
Spring 2014	Development of Undergraduate Laboratories: Kyle Messina (1)
Spring 2014	Development of Undergraduate Laboratories: Simone Curd (1)
Spring 2014	Development of Undergraduate Laboratories: Michael Steenken (1)
Spring 2014	Development of Undergraduate Laboratories: Jessica Linares (1)
Spring 2014	Development of Undergraduate Laboratories: Chloe Burden (1)
Spring 2014	Development of Undergraduate Laboratories: Kaitlin Voigts (1)
Spring 2014	Development of Undergraduate Laboratories: Jelena Popovic (1)
Spring 2014	Development of Undergraduate Laboratories: Victoria Cherolis (1)
Summer 2014	eLearning Module Development: Michael Steenken (4)
Summer 2014	eLearning Module Development: Leah Woods (4)
Summer 2014	eLearning Module Development: Patrick Kelly (4)

Summer 2014 eLearning Module Development: Victoria Cherolis (4)  
 Summer 2014 eLearning Module Development: James Rossi (5)  
 Summer 2014 eLearning Module Development: Sahiba Chandel (5)  
 Summer 2014 eLearning Module Development: Matthew Zarth (5)  
 Fall 2014 Advanced Topics in Anatomy Education: Ann Marie Adams (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Savannah L Baker (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Sylvia Rose Blake (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Katelyn Brown (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Kristen E Cruse (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Kacie Lynne Fallot (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Morgan F Hines (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Rachel Hyder (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Kaley Mayrose (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Stephani McIntyre (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Rachel Mortensen (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Lindsay Panther (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Samantha Tallman (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Shelley Wallace (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Sarah Wend (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Kenwyn Pfister (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Jessica Linares (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Chloe Burden (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Kendall Pfister (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Mary Zierenberg (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Shelby Coulter (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Camille Laval (1)  
 Fall 2014 Advanced Topics in Anatomy Education: Jelena Popovic (1)  
 Fall 2014 Undergraduate Honor Program Mentor: Heidi Vollrath (2)

Fall 2014 - Present

Sponsored Research: Heidi Vollrath (6)

Fall 2014 - Present

Sponsored Research: Holden Hemmingway (6)

Spring 2015 Advanced Topics in Anatomy Education: Leah Woods (1)  
 Spring 2015 Advanced Topics in Anatomy Education: Savannah Baker (1)  
 Spring 2015 Advanced Topics in Anatomy Education: Katelyn A Brown (1)  
 Spring 2015 Advanced Topics in Anatomy Education: Camille A Laval (1)  
 Spring 2015 Advanced Topics in Anatomy Education: Lindsay G. Grace (1)  
 Spring 2015 Advanced Topics in Anatomy Education: Charlotte Stewart (1)  
 Spring 2015 Independent Research: Michael B Steenken (1)

Fall 2015 Advanced Topics in Anatomy Education: Elizabeth Smyth (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Josh Day (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Paige Camp (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Maria Miller (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Celestria Daugherty (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Samantha Poston (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Rachel Adkins (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Tayler Whitehead (1)

Fall 2015 Advanced Topics in Anatomy Education: Jeanna Cox (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Elaina Dawson (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Jennifer McCall (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Madison Rose (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Lindsay Panther (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Jade Wilson (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Emily Schaefer (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Roy Diego McCoy (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Callie Mills (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Emily Ash (1)  
 Fall 2015 Advanced Topics in Anatomy Education: McCall, Jennifer (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Alli Overfield (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Amelia Metz (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Janani Gurukkal (1)  
 Fall 2015 Advanced Topics in Anatomy Education: Gregory Holben (1)  
 Fall 2015 Sponsored Research: Holden Hemmingway (6)  
 Fall 2015 Sponsored Research: Heidi Vollrath (6)

Spring 2016 Advanced Topics in Anatomy Education: Kathleen Guell (6)  
 Spring 2016 Advanced Topics in Anatomy Education: Andrew Welleford (6)  
 Spring 2016 Advanced Topics in Anatomy Education: Maria Miller (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Paige Camp (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Amelia Metz (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Samantha Poston (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Jeanna Cox (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Elaina Dawson (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Celestria Daugherty (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Jessica Linares (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Janani Gurukkal (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Rachel Adkins (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Shane Wingo-Reisbacher (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Leah Woods (3)  
 Spring 2016 Advanced Topics in Anatomy Education: Alli Overfield (1)  
 Spring 2016 Advanced Topics in Anatomy Education: Gregory Holben (1)  
 Spring 2016 Sponsored Research: Holden Hemmingway (6)  
 Spring 2016 Sponsored Research: Heidi Vollrath (6)

**Thesis & Dissertation & Postdoctoral Mentorship**

**State University of New York - Albany, NY**

08/2011- Present Dissertation Committee Member / Amanda Spriggs / Anthropology

**State University of New York – Stony Brook**

08/2010- 2016 Dissertation Committee Member / Amanda Kingston / Anatomical Sciences

**Marshall University – Huntington, WV**

08/2009- 01/2011 Postdoctoral Research Associate: Sylvia Paesani, MD

---

**EDUCATIONAL SOFTWARE & EDUCATIONAL WEBDESIGN**

---

**2013-2014**

eLearning Hybrid teaching modules – 24 modules total. University of Kentucky, Lexington.

**2006** UT Liberal Arts Technology Services Content Manager for the Friesen Project <https://dev.laits.utexas.edu/friesen>

## 2005-2003

University of Texas Liberal Arts Technology Services Web Designer, Content Manager, and Computer Programmer for the "Primate Evolution Project" <http://www.laits.utexas.edu/shapiro/>

**2003** Uncovering the secrets of Madagascar. On-line inquiry based learning modules:  
<http://www.ig.utexas.edu/outreach/gk-12/mad/classify/educout.pdf?PHPSESSID=def1b9>

**2001** Interactive digital software used in the Introduction to Physical Anthropology self-paced computer class at the University of Texas at Austin.

---

## PEDAGOGICAL METHODS

---

2016 Workshop on Teaching – College of Arts and Science – University of Kentucky (invitation only)

2015 edTech Conference – Dallas, Texas

2015 Anatomy in Clay Workshop

2014 Wiley Learning Space Workshop: Anatomy & Physiology

2014 eLearning laboratory modules

2012 Undergraduate anatomy laboratory experience

2012 Workshop: *Engaging a new generation of students: Dynamic strategies for dramatic results* March 10th Las Vegas, Nevada

2011 Undergraduate anatomy laboratory experience

2011 Class captures (Echo 360) – Established a recorded lecture for student enrichment.

2011 Turning technologies – integrated an audience response system into class lectures to foster a small class interactive setting into a large lecture hall course (ANA 109/110)

---

## PROFESSIONAL SERVICE

---

### Review Panels

**2011 – Present** External reviewer - Texas Academy of Science Grant Proposals

**2011 – Present** Faculty Mentor - Wiley

**2012** External reviewer – The Ohio State University's Baker Fund

**2013 – Present** Research Support Grants Proposal Review Committee Member – University of Kentucky, Lexington.

**2014** External reviewer – National Science Foundation

### Journal Peer-Reviewing

**2010 – Present** External reviewer - International Journal of Primatology

**2010 – Present** External reviewer - American Journal of Physical Anthropology

**2010 – Present** External reviewer - American Journal of Primatology

**2010 – Present** External reviewer - Turkish Journal of Paleontology

**2011 – Present** External reviewer - McGraw Hill

**2011 – Present** External reviewer - Anatomical Records

**2011 – Present** External reviewer - Anatomy Research International

**2011 – Present** External reviewer - Naturefusing Journal

**2011 – Present** External reviewer - Wiley

**2012 – Present** External reviewer - Journal of Primatology

**2013 – Present** External reviewer – PLoS ONE

**2014** External reviewer – Evolutionary Biology

**2014** External reviewer – Journal of Morphology

**2014** External reviewer – Modern Phylogenetic Comparative Methods and their Application in Biology

**2015** External reviewer – Journal of Anatomy

---

## PROFESSIONAL AFFILIATIONS

---

**1998 – Present** American Association of Physical Anthropologists

Magdalena Muchlinski – CV November 2016

- Committee on diversity committee member 2014
- Abstract review committee member 2016
- 2000 – Present** American Society of Primatologists
  - Educational Committee Member since 2006
- 2000 – Present** International Primatological Society
- 2004 – Present** American Association of Anatomists
- 2004 – Present** Society of Vertebrate Paleontology
- 2012 – Present** Kentucky Academy of Science
- 2013 – Present** Bones and Behavior Working Group – Standardizing Methodology in Anthropology

---

## UNIVERSITY SERVICE

---

- 2016** Executive committee member for the *Women in Medicine and Science* Initiative – University of Kentucky, Lexington
- 2016** Cheer Cats! - Women's dance and cheer group - faculty sponsor and advisor
- 2015** Equivalence evaluator – Anatomical Science Courses – University of Kentucky, Lexington
- 2015** eLearning – Distance Learning Grant Proposal Review Committee Member – Reviewing and evaluating internal grants for the office of eLearning at the University of Kentucky, Lexington.
- 2013 – Present**
  - Research Support Grants Proposal Review Committee Member – Reviewing and evaluating internal grants for the Vice President for Research at the University of Kentucky, Lexington.
- 2013 – 2014**
  - Departmental Research Showcase Committee – Co-chair: Assisting in organizing research showcases for the National Conference for Undergraduate Research.
- 2013 – Present**
  - Ultimate Frisbee Club - Women's (Women's Ultimate) - faculty sponsor and advisor
- 2012** TRY-IT! Neuroscience GK-12 Outreach. A Department of Behavioral Science NIH Funded project. The goal of “TRY-IT” is to encourage middle school students from low-income and minority backgrounds to pursue a career in biomedical and health sciences.
- 2012** U.K. Outreach Center for Science: Anatomy Tour
- 2012** Graduate student admission interviewer for the *Integrated Biological Science (IBS)* program – Department of Anatomy and Neurobiology – College of Medicine
- 2012 – 2014**
  - Dental admission committee member – University of Kentucky, Lexington
- 2011 – 2012**
  - Dental admission interviewer – University of Kentucky, Lexington
- 2011 – Present**
  - VOX – Voices for Planned Parenthood – faculty sponsor and advisor
- 2010** Educational committee and outreach chair – Department of Anatomy and Pathology - Marshall University
- 2010** Co-organizer of an “Expanding Your Horizons” workshop: *Skeletons in your closet?* - Marshall University
- 2010** *Brain Expo – The Cerebellum*. Marshall University, March 2010
- 2010** Hiring committee – Biology Department Marshall University
- 2009** Workshop co-organizer: *Introduction to the human body* – GK-12 Outreach sponsored by the department of Anatomy and Pathology, Marshall University
- 1998-Present**
  - GK-12 Science Outreach: This is your body*. Interactive modules and presentations focusing on anthropological uses of anatomy to better understand behavior and ecology. Program started at the University of California, Santa Cruz and was continued at the University of Texas at Austin, Baylor University, Marshall University, and the University of Kentucky, Lexington.