Department of Anthropology University of South Florida 4202 East Fowler Ave, SOC107 Tampa, FL 33620-7200 1-847-913-2803 (cell) emm3@usf.edu http://anthropology.usf.edu/faculty/emiller/ http://humanbiolab.wordpress.com https://orcid.org/0000-0002-5046-380X

APPOINTMENTS

- 2018- Associate Professor, Department of Anthropology, University of South Florida
- 2017-20 Undergraduate Director, Department of Anthropology, University of South Florida
- 2012-18 Assistant Professor, Department of Anthropology, University of South Florida
- 2011-12 Postdoctoral Fellow, Department of Anthropology, Northwestern University

EDUCATION

2011	Ph.D., University of Michigan, Anthropology
2006	M.A., University of Michigan, Anthropology
2004	M.S., University of Illinois Urbana-Champaign, Library and Information Science
2003	B.A., Northwestern University (cum laude), Anthropology (honors) and Psychology (honors)

EXTERNAL GRANTS AND FELLOWSHIPS

NIH National Institute for Nursing Research 1 R01 NR015446-01 PI: M.E. Groer. Co-Is: K. Armstrong, T. Ashmeade, L. Dishaw, J.A. Gilbert, H. Li, **E.M. Miller**, M. Ji. Award Amount: \$2.7M.

Title: The preterm infant microbiome: Biological, behavioral and health outcomes at 2 and 4 years of age Project Period: 05/15/2015 – 05/14/2020

Wenner-Gren Foundation Post-Ph.D. Research Grant PI: **E.M. Miller** Co-Investigator: M.E. Groer. Award Amount: \$20,000 Title: *Ecology of the human milk and infant salivary microbiomes* Project Period: 01/01/2016 – 1/31/2018

American Association of Physical Anthropologists Professional Development Award PI: **E.M. Miller** Award Amount: \$5,000 Title: *The feeding ecology of infant immune function in the United States* Project Period: 7/1/2014 – 6/31/2015

NSF Doctoral Dissertation Improvement Grant BCS-0750779 Co-PI: **E.M. Miller** (PI: A.R. Frisancho) Award Amount: \$15,000 Title: *Culture, Evolution and Immunity in Breastfeeding Ariaal Mothers and Infants* Project Period: 1/1/2008 - 1/1/2010

Leakey Foundation General Research Grant PI: **E.M. Miller** Award Amount: \$13,500 Title: *Breastfeeding, Immunity and Life History in Ariaal Mothers and Infants* Project Period: 1/1/2008 - 1/1/2010

NSF Graduate Research Fellowship Fellowship Period: 9/1/2006 - 8/30/2009

INTERNAL GRANTS, FELLOWSHIPS AND AWARDS

Blackness and Anti-Black Racism Research Grants. \$30,000. University of South Florida. 2020-21 Title: Gut microbiota composition and function during pregnancy and lactation in Rwandan mothers PI: A. Louis-Jacques; Co-PIs: R. Wilson, E.M. Miller, and M. Uddin 2017-18 Women in Leadership and Philanthropy USF System Junior Faculty Award, \$5,000, University of South Florida, PI: E.M. Miller CAS Internal Pilot Award, \$1,500, College of Arts and Sciences, University of South Florida, PI: 2014-15 E.M. Miller Research that Matters Faculty-Community Partner Grant, \$7,702, Office of Community 2014-15 Engagement, University of South Florida, PI: E.M. Miller Outstanding Undergraduate Teaching Award 2013-2014, University of South Florida 2014 Rackham One-Term Fellowship 2011 2009-11 Rackham Conference Travel Grant, \$1150 total over 3 years 2006 Rackham Graduate Student Research Grant, \$1500, Rackham Graduate School, University of Michigan 2006 Helen M. Spuhler Memorial Grant, \$2000, Department of Anthropology, University of Michigan 2004-06 Regents Fellowship, University of Michigan

PEER REVIEWED PUBLICATIONS

Oberstaller, J., Rakesh Adapa, S., Dayhoff II, G.W., Gibbons, J., Keller, T.E., Li, C., Lim, J., Pham, In press M., Sarkar, A., Sharma, R., Wani, A.H., Vianello, A., Duong, L.M., Wang, C., Atkinson, C.G.F., Barrow, B., Van Bibber, N.W., Dahrendorff, J., Dean, D.A.E., Dokur, O., Ferreira, G.C., Hastings, M., Herbert, G.S., Huq, K.T., Kim, Y., Liao, X., Liu, X., Mansuri, F., Martin, L.B., Miller, E.M., Natarajan, O., Pang, J., Prieto, F., Radulovic, P.W., Sheth, V., Sumpter, M., Sutheland, D., Vijavakumar, N., Jiang, R. (in press). Uncovering host-microbiome interactions in global systems with collaborative programming: a novel approach integrating social and data sciences. F10000Research. Early view Miller, E.M. (early view). Interleukin-1 and interleukin-1 receptor antagonist in saliva: exploring biomarkers for mucosal immune function in infants. American Journal of Human Biology, https://doi.org/10.1002/ajhb.23477. 2020 Groer, M.E., Morgan, K.H., Louis-Jacques, A. Miller, E.M. (2020). A scoping review of research on the human milk microbiome. Journal of Human Lactation. https://doi.org/10.1177/0890334420942768 2020 Groer, M.E, Miller, E.M., Sarkar, A. Dishaw, L. Dutra, S.V.O., Yoo, J.Y., Morgan, K.H., Ji, M. and Ho, T.T.B. (2020). Metabolic pathway distributions in very low birth weight infants: Potential relationships with NICU faltered growth. Nutrients, 12, 1345. 2020 Groer, M.E., Miller, E.M., Duffy, A.R., D'Agata, A., Gordon, J., Ho, T.T.B., Dutra, S., Yoo, J.Y., Yee, A.L., Gilbert, J.A., Dishaw, L.J. (2020). Contributors to dysbiosis in very low birth weight infants. Journal of Obstetrics, Gynecology, and Neonatal Nursing, 49(3):232-242, doi: 10.1016/j.jogn.2020.02.003. 2020 Louis-Jacques, A.F., Marhefka, S.L., Brumley, J., Taylor, T.I., Schafer, E.J. Brown, A., Spatz, D.L., Miller, E.M. (2020). Historical antecedents of breastfeeding for African American women in the South: From the colonial period to the mid-20th century. Journal of Racial and Ethnic Health Disparities. https://doi.org/10.1007/s40615-020-00727-5 2020 Burris, M.*, Miller, E., Romero-Daza, N., Himmelgreen, D. (2020). Food insecurity and menarche in Tampa Bay, Florida. Ecology of Food and Nutrition. * Student author 2019 Miller, E.M. and Khalil, M.* (2019). Iron and fecundity among Tsimane' women of Bolivia. Evolution, Medicine, and Public Health. 2019(1): 111-120. https://doi.org/10.1093/emph/eoz020. * Student author

2019 Deubel, T.F., Miller, E.M., Hernandez, I.H., Boyer, M. and Louis-Jacques, A. (2019). Perceptions and practices of infant feeding in African American women. Ecology of Food and Nutrition. Yee, A., Miller, E.M., Dishaw, L., Gordon J.M., Ji, M., Ozorio Dutra, S.V., Ho, T.T.B., Gilbert, J.A. 2019 Groer, M.W. (2019). Longitudinal microbiome composition and stability correlates with increased weight and length of Very Low Birth Weight infants. mSystems. DOI: 10.1128/mSystems.00229-18 2018 Miller, E.M. (2018). Life history perspectives on milk immunity: A comparative approach. American Journal of Physical Anthropology, 167, 389–399. 2018 Miller, E.M. (2018). Centennial commentary: The first seriatum study of growth by R.E. Scammon. American Journal of Physical Anthropology, 165, 415-420. 2018 Miller, E.M., Deubel, T., Louis-Jacques, A. and Hernandez, I.H. (2018). One step for a hospital, ten steps for women: African American women's experiences in a newly-accredited Baby-Friendly Hospital. Journal of Human Lactation, 34(1), 184–191. 2017 Rivara, A.C.* and Miller, E.M. (2017). Pregnancy and immune stimulation: re-imagining the fetus as parasite to understand age-related immune system changes in US women. American Journal of Human Biology, 29(6), e23041. * Student author 2017 Miller, E.M. (2017). What is significant about a single nursing session? An exploratory study. American Journal of Human Biology, 29(5), e23004. 2016 Miller, E.M. (2016). Hormone replacement therapy affects iron status more than endometrial bleeding in older US women: A role for estrogen in iron homeostasis? Maturitas, 88, 46-51. Miller, E.M. (2016). The reproductive ecology of iron in women. Yearbook of Physical 2016 Anthropology, 159, S172-S195. 2015 Miller E.M. (2015). A comparison of three infant skinfold reference standards: Tanner-Whitehouse, Cambridge Infant Growth Study, and WHO Child Growth Standards. Maternal & Child Nutrition, 11, 1023-1027. 2015 Miller E.M. and McConnell D.S. (2015). Milk immunity and reproductive status among Ariaal women of northern Kenya. Annals of Human Biology, 42, 76-83. 2014 Miller E.M. (2014). Iron status and reproduction in US women: National Health and Nutrition Examination Survey, 1999-2006. PLoS ONE 9, e112216. 2014 Groer M., Luciano A., Dishaw L., Ashmeade T., Miller E., and Gilbert J.A. (2014). Development of the preterm infant gut microbiome: A research priority. *Microbiome* 2, 38. 2014 Miller E.M. (2014). Chronic undernutrition and traditional weaning foods are associated with fat stores in Ariaal infants of northern Kenya. American Journal of Physical Anthropology 153, 286-296. 2013 Miller, E.M., Aiello, M.O., Fujita, M., Hinde K., Milligan, L.M., and Quinn, E.A. (2013). Field and laboratory methods in human milk research. American Journal of Human Biology, 25, 1-11. 2012 Miller, E.M. and McDade, T.W. (2012). A highly sensitive immunoassay for interleukin-6 in dried blood spots. American Journal of Human Biology, 24, 863-865. 2012 Miller, E.M. and McConnell, D.S. (2012). Chronic undernutrition is associated with mucosal antibody concentration among Ariaal infants of northern Kenya. American Journal of Physical Anthropology, 149, 136-141.

2011	Miller, E.M. (2011). Maternal health and knowledge and infant health outcomes in the Ariaal people of northern Kenya. <i>Social Science & Medicine</i> , 73, 1266-1274.
2011	Abrams, E.T. and Miller, E.M. (2011). The roles of the immune system in women's reproduction: Evolutionary constraints and life history trade-offs. <i>Yearbook of Physical Anthropology</i> , 53, 134-154.
2011	Miller, E.M. and McConnell, D.S. (2011). The stability of immunoglobulin A in human milk and saliva stored on filter paper at ambient temperature. <i>American Journal of Human Biology</i> , 23, 823-825.
2010	Miller, E.M. (2010). Maternal hemoglobin depletion in a settled northern Kenyan pastoral population. <i>American Journal of Human Biology</i> , 22, 768-774.
2009	Miller, E.M. (2009). Changes in serum immunity during pregnancy. <i>American Journal of Human Biology</i> , 21, 401-403.

BOOK CHAPTERS

- 2020 **Miller, E.M.** (2020). The ecology of breastfeeding and mother-infant immune functions. In Halcrow, S., Gownland, R., eds. *The Mother-Infant Nexus in Anthropology: Small Beginnings, Significant Outcomes*, Springer: Bioarchaeology and Social Theory Series.
- 2018 **Miller, E.M.** (2018). Beyond passive immunity: Breastfeeding, milk and shared mother-infant immune systems. In C. Tomori, A. Palmquist, E.A. Quinn, eds. *Anthropologies of Breastfeeding*, Routledge: New York, NY: 26-39.

ENCYCLOPEDIA ENTRIES

- 2018 **Miller, E.M.** (2018). Growth in utero, infancy. In W. Trevathan, ed. *International Encyclopedia of Biological Anthropology*. 5000 word entry.
- 2018 Himmelgreen, D.A. and **Miller, E.M.** (2018). Nutritional assessment. In W. Trevathan, ed. *International Encyclopedia of Biological Anthropology*. 1500 word entry.

BOOK REVIEWS

- 2018 **Miller, E.M.** (2018). The dance of nurture: Negotiating infant feeding. By Penny Van Esterik and Richard A. O'Connor New York, NY: Berghahn books, 2017. 248 pp. \$120.00 (hardcover). *American Journal of Human Biology*, 30: e23092.
- 2015 **Miller, E.M.** (2015). Cultures of milk: The biology and meaning of dairy products in the United States and India. By Andrea S. Wiley. 208 pp. Cambridge, MA: Harvard University Press. 2014. \$39.95 (cloth). *American Journal of Human Biology*, 27: 881.

ABSTRACTS, PAPERS AND PRESENTATIONS

- 2021 **Miller, E.M**. and Monkhouse, A.* (submitted). Iron deficiency and depressive symptoms: a hidden racial disparity in the United States. Human Biology Association Annual Meeting, 2021, Virtual *Student author
- 2020 Groer, M.E. Sarkar, A., **Miller, E.M.** (2020). Contributions of milk volume, cytokines, chemokines and secretory Immunoglobulin A to Very Low Birth Weight infant growth. International Society for Research in Human Milk and Lactation Biennial Congress 2020, Stockholm, Sweden

2020	Sarkar, A., YounYoo, J., Dutra, S., Dishaw, L., Kane, B., Miller, E. , Groer, M. (2020). Identification of bacterial metabolic abundances in the gut microbiome of preterm infants. Society for Reproductive Investigations Annual Scientific Meeting, 2020, Vancouver, British Columbia
2020	Tadros J., Grey H., Miller, E.M. , Ho, T.T.B. (submitted). Preterm infant nutrition, gut microbiome, and catch up growth as early indicators of childhood obesity. Submitted to Pediatric Academic Societies 2020 Meeting, Philadelphia, PA
2020	Miller, E.M. (2020) Birthweight is associated with arm muscle but not arm fat in U.S. children ages 1-5: NHANES 2005-2010. Human Biology Association 2020 meeting, Los Angeles, CA. Abstract published but poster canceled due to COVID-19
2019	Miller E.M. , Dishaw, L.J., Dutra S.V.O., Gordon, G., Ho T.T.B., Sarkar A., Groer, M.E. (2019). The relationship between preterm microbiome diversity and length catch-up growth at 2 and 4 years of age among very low birth weight (VLBW) infants. World of Microbiome: Pregnancy, Birth, and Infancy, 2019, Milan, Italy
2019	Dutra, S., Groer, M., Yoo, J.Y., Miller, E ., Gordon, J., Ho, T., Sarkar A., Dishaw, L., Shaffer, E. (2019). Very low birth weight (VLBW) infants gut microbiome richness and diversity associated with behavior at 4 years of age. World of Microbiome: Pregnancy, Birth, and Infancy, 2019, Milan, Italy
2019	Groer, M., Miller, E. , Shaffer, E., Dutra, S., Gordon, J., Ho, T., Sarkar, A., Dishaw, L. (2019). Very low birth weight infant gut microbiome is richness and diversity is associated with neurodevelopment at 2 years of age. World of Microbiome: Pregnancy, Birth, and Infancy, 2019, Milan, Italy
2019	Groer, M.W., Miller, E.M. , Yee, A., Gilbert, J.A. (2019). The preterm infant gut microbiome, human milk volume and immunobiology, and growth. Submitted to Experimental Biology 2019 Annual Meeting, Orlando, FL
2019	Miller, E.M. (2019). Exploring interleukin-1 (IL-1) and interleukin-1 receptor antagonist (IL-1ra) in infant saliva. Human Biology Association 2019 Meeting, Cleveland, OH
2018	Miller, E.M. and Deubel, T.F. (2018). Food insecurity and infancy: Anthropological perspectives. Society for Applied Anthropology 2018 Meeting, Philadelphia, PA.
2018	Miller, E.M. (2018). Breastfeeding and emerging infectious diseases: An anthropological approach. American Association of Physical Anthropologists 2018 Meeting, Austin, TX.
2018	Miller, E.M. and Khalil, M.* (2018). Hemoglobin levels and time to birth among reproductive-aged women in the Tsimane' Amazonian Panel Study. Human Biology Association 2018 Meeting, Austin, TX *Student author
2017	Miller, E.M. (2017). Food insecurity and breastfeeding in the United States: An anthropological perspective. As part of the panel: Infant Feeding Inequalities in the U.S.: Interdisciplinary Research in Applied Settings (co-organized by E.M. Miller and T. Deubel) at the Society for Applied Anthropology 2017 Meeting, Santa Fe, NM
2017	Miller, E.M. (2017). Life history perspectives on milk immunobiology and infant growth. Human Biology Association 2017 Meeting, New Orleans, LA
2016	Louis-Jacques, A., Deubel, T., Hernandez, I.H., Miller, E.M. (2016). Supporting a culture of breastfeeding: African American women's infant feeding practices. Academy of Breastfeeding Medicine 21 st Annual Meeting, Arlington, VA
2016	Miller, E.M. (2016). Are changes in milk fat concentration over a single feed related to infant growth? Human Biology Association 2016 Meeting, Atlanta, GA

2015	Roundtable: Biocultural perspectives on normal, physiologic birth. Presenter. American Anthropological Association 2015 Meeting, Denver, CO
2015	Rivara, A.C.* and Miller, E.M. (2015). Pregnancy, age and IgE: unexpected levels of immune defenses in U.S. women (National Health and Nutrition Examination Survey 2005-2006). Human Biology Association 2015 Meeting, St. Louis, MO. *Student author
2015	Miller E.M. (2015). Predictors of reported nursing frequency in Ariaal mothers and infants of Kenya. Human Biology Association 2015 Meeting, St. Louis, MO.
2014	Miller E.M., McConnell D.S., McDade T.W. (2014). Beyond passive immunity: Milk and shared mother-infant immune systems in Kenya. Included in invited session: "Anthropologies of breastfeeding: Producing new conversations." American Anthropological Association 2014 Meeting, Washington, DC.
2014	Miller E.M. (2014). Parity and hemoglobin in US women (National Health and Nutrition Examination Survey, 1999-2002). American Association of Physical Anthropologists 2014 Meeting, Calgary, AB.
2013	Miller, E.M., McConnell, D.S. and McDade, T.W. (2013). Concordant maternal-infant immunity among the Ariaal of Kenya. Human Biology Association 2013 Meeting, Knoxville, TN.
2012	Miller, E.M. (2012). Ariaal mothers' nutritional status and infant sex predict infant height and weight. Human Biology Association 2012 Meeting, Portland, OR.
2011	Miller, E.M. (2011). The reproductive ecology of breastmilk immunity in Ariaal women of northern Kenya. Included in invited session: "Eating for two: Maternal ecology and nutrition in human and nonhuman primates". American Association of Physical Anthropologists 2011 Meeting, Minneapolis, MN.
2011	Miller, E.M. (2011). Fat deposition and growth in breastfeeding Ariaal infants. Human Biology Association 2011 Meeting, Minneapolis, MN.
2010	Miller, E.M. and McConnell, D.S. (2010). Chronic but not acute undernutrition predicts salivary IgA levels in Ariaal infants. American Association of Physical Anthropologists 2010 Meeting, Albuquerque, NM.
2010	Miller, E.M. and McConnell, D.S. (2010). Postpartum variation in breastmilk IgA. Human Biology Association 2010 Meeting, Albuquerque, NM.
2009	Miller, E.M. and McConnell, D.S. (2009). Development of an enzyme-linked immunosorbent assay (ELISA) for IgA in breastmilk and saliva stored on filter paper. Human Biology Association 2009 Meeting, Chicago, IL.
2009	Miller, E.M. (2009). Mothers' knowledge of traditional medicine is associated with reduced likelihood of infant illness in a northern Kenyan pastoral population. WIDTH Symposium, Department of Public Health, University of Michigan, Ann Arbor, MI.
2004	Kuzawa, C.W., Miller, E. , and Adair, L.S. (2004). Maternal and prenatal influences on male life history. Included in the invited session: "Life history, energetics, and human evolution." American Association of Physical Anthropologists 2004 Meeting, Tampa, FL.

RESEARCH EXPERIENCE

Fieldwork Experience

2015-16	Genesis Women's Center, Tampa General Hospital, Florida, United States • Interviewed African American women regarding infant feeding (n = 20)
2014-15	 Hillsborough County, Florida, United States Collected breast milk and saliva from US mother-infant pairs (n = 82 pairs) Administered interviews using free, open source data collection system KoBo Toolbox Performed anthropometric measurements on women and infants
2008-09	 Karare, Parkishon, and Kituruni, Marsabit District, Kenya Collected saliva, dried blood spots and breastmilk in Ariaal mother-infant pairs (n = 251 pairs) Administered comprehensive survey of maternal and infant characteristics, health, family structure, socioeconomic status, and knowledge of healthcare practices Performed anthropometric measurements on women and infants
2007	Karare and Parkishon, Marsabit District, Kenya • Pilot interviews among Ariaal women (n = 41)
2006	Karare, Marsabit District, Kenya • Pilot anthropometry among Ariaal women and infants (n = 80)
Laboratory Experience	
Laboratory Ex	<i>(perience)</i>
Laboratory Ex	 <i>cperience</i> Director, Health and Human Biology Laboratory, Department of Anthropology, University of South Florida Novel, field-friendly research of population biomarkers Specialization in human milk, saliva, and dried blood spot immunoassays
-	Director, Health and Human Biology Laboratory, Department of Anthropology, University of South Florida • Novel, field-friendly research of population biomarkers
2012-	 Director, Health and Human Biology Laboratory, Department of Anthropology, University of South Florida Novel, field-friendly research of population biomarkers Specialization in human milk, saliva, and dried blood spot immunoassays Laboratory for Human Biology Research, Department of Anthropology, Northwestern University Developed single and multiplex immunoassay protocols for evaluating cytokines in dried blood spots Assayed inflammatory markers in dried blood spot samples to assess changes in health

Bioinformatics Training and Experience

- 2020 USF OneHealth Codeathon, 2020. Three-day codeathon that moved a microbiome project from conception to data analysis to presentation. First place team.
- 2020 QIIME2 workshop, FAES@NIH, Bethesda, MA. Three-day workshop on bioinformatics pipeline QIIME2.
- 2019 QIIME2 workshop, World of Microbiome: Pregnancy, Birth, and Infancy conference, Milan, Italy. One-day workshop on bioinformatics pipeline QIIME2
- 2018 USF Genomics Data-Analysis Training, Tampa, FL. Three-day workshop on computational methods within the USF Genomics Core Facility.

Research Interests

Human biology, immune function, maternal and infant health, breastfeeding, maternal iron deficiency, microbiomes, nutrition, reproduction, growth and development, life history theory, evolutionary ecology, field and laboratory methods, East Africa, United States

TEACHING EXPERIENCE

University of South Florida

2012-20	Assistant/Associate Professor, Department of Anthropology (17 semesters)
	Cultural Anthropology (UG online)
	Biological Anthropology (UG f2f and online)
	Evolution and Health (UG f2f and online)
	Human Sexuality and Culture (UG)
	Human Reproductive Ecology (UG/G)
	Human Variation (UG, UG/G, G)
	Evolution and Life History Theory (G)
	Foundations of Anthropological Theory (G)

Northwestern University

2012	Lecturer, Global Health Studies (1 semester)
	Global Maternal and Child Health (UG)

2011 Instructor, Science and Engineering Teaching and Research Synthesis workshops, Department of Anthropology (1 semester) On the Move: Locomotion and Human Evolution (UG)

University of Michigan

2011	Grader, Center for African and African American Studies (1 semester) Introduction to African Studies (UG)
2010	Instructor of Record, Department of Anthropology (1 semester) Darwin, MD: Evolution and Health (UG)
2005-10	Graduate Student Instructor, Department of Anthropology (5 semesters) Introduction to Biological Anthropology (UG and G) Human Adaptation (UG/G) Nutrition and Evolution (UG)

Professional and Teaching Development

- 2019 Quality Matters Professional Development workshop: Creating Presence in Your Online Course. 2week online workshop.
- 2018 Online Instructor Certification Class 2018, University of South Florida. 5-week online class to certify for online teaching.
- 2016 Meta Discussions. Poster at Celebration of Teaching Conference, Academy for Teaching and Learning Excellence (ATLE), University of South Florida
- 2014 Summer Teaching Symposium, Academy for Teaching and Learning Excellence (ATLE), University of South Florida
- 2009 Graduate Teacher Certificate, Center for Research on Learning and Teaching, University of Michigan

ADVISING

Current Students

Ph.D.	As major advisor: 2 students (Anthropology)
	As committee member: 3 students (Anthropology)
M.A.	As major advisor: 1 student (Anthropology)
	As committee member: 3 students (Anthropology)
U.G. Honors	As major advisor: 1 student (Honors College)
Former Students	
Ph.D.	As major advisor: 1 student (Anthropology and Public Health)
	As committee member: 9 students (Anthropology, Public Health)
M.A.	As major advisor: 3 students (Anthropology, Anthropology and Public Health)
	As committee member: 7 students (Anthropology, Anthropology and Public Health)
UG Honors	As major advisor: 6 students (Anthropology, Anthropology and Honors College)
UG	As independent study advisor: 4 students (Anthropology, Women and Gender Studies, Biomedical Sciences, Honors College)

EXTERNAL TALKS AND LECTURES

- 2018 Overcoming the obstacle of scientific knowledge: What do we know about milk immunity and microbiomes? Overcoming Obstacles Conference: Tampa Bay Breastfeeding Task Force. February 9, 2018.
- 2018 The Relationship Between the Human Microbiome and Taphonomy. Inaugural Conference, BEST Forensic Anthropology and Bioarchaeology Conference, St. Pete Beach (FL), January 13, 2018.
- 2017 The Ecology of Breastfeeding and the Nexus of Mother-Infant Immune Functions. Wenner-Gren Foundation for Anthropological Research Inc. Workshop: The Mother-Infant Nexus in Anthropology: Small Beginnings, Significant Outcomes. Durham University, Durham, United Kingdom, July 18, 2017.
- 2016 The Ecology of Mother-Infant Immune Function in the US and Kenya. Perinatal Research Seminar, Tampa General Hospital. November 9, 2016.
- 2016 Global Perspectives: What Anthropology Can Tell US About Breastfeeding. Culture of Breastfeeding Conference, Hillsborough County Breastfeeding Task Force. February 19, 2016.
- 2012 The Assessment of Cytokines in Dried Blood Spots (DBS). Biomarker Network Meeting, Population Association of America 2012 Meeting, San Francisco, May 2, 2012.

INTERNAL TALKS AND LECTURES

2020 World within: Microbiomes and anthropology. Keynote speaker, USF OneHealth Codeathon, USF Genomics. February 26, 2020.

- 2020 Anthropology and the microbiome. Anthropology in Action Day, Department of Anthropology, University of South Florida. February 20, 2020. 2017 Human niche construction, immune function, and emerging infections: a case of mothers and infants in rural Kenya. First Evolution Symposium, Evolution Interest Group, University of South Florida. November 17, 2017. Anthropology in the NICU. Anthropology in Action Day, Department of Anthropology, University of 2017 South Florida. February 22, 2017. You Are What You Eat: Milk and Babies in Kenya and the US. Undergraduate Anthropology Club, 2017 University of South Florida. January 24, 2017. 2016 Food Insecurity and Breastfeeding in the United States: An Anthropological Perspective (with T. Deubel). Research That Matters Symposium: The New Face of Food Insecurity. Office of Community Engagement and Partnerships, University of South Florida. April 22, 2016. 2016 Breastfeeding and African American Women at Genesis Women's Center (with T. Deubel, I. Hernandez, A. Louis-Jacques). Research that Matters Symposium: Coming Home to Social Justice: How Community Participation and Cross-Sector Collaboration Can Have a Collective Impact on Health Equity. Office of Community Engagement and Partnerships, University of South Florida. March 4, 2016. 2015 Lactogenesis and Family Planning. Maternal and Child Health Student Organization Symposium, University of South Florida. With the Hillsborough County Breastfeeding Task Force. March 20, 2015. 2015 The Ecology of Immunity among the Ariaal of Northern Kenya. Occasional Lecture Series, Department of Anthropology, University of South Florida. February 17, 2015. 2014 The Ecology of Immunity among the Ariaal of Northern Kenya. Integrative Biology Seminar Series, Department of Integrative Biology, University of South Florida. January 23, 2014.
- 2011 Breastfeeding and Anthropology in the Ariaal People of Northern Kenya, Four-Field Graduate Talks, University of Michigan. February 17, 2011.

PROFESSIONAL ASSOCIATIONS

- 2019- International Society for Evolution, Medicine & Public Health
- 2013- International Society for Research on Human Milk and Lactation
- 2009- Sigma Xi
- 2005- American Association of Physical Anthropology
- 2005- Human Biology Association

PROFESSIONAL SERVICE

- 2020- External tenure reviewer (1 university in the United States)
- 2019- Secretary, Human Biology Association (4-year term)
- 2020-21 Early Career Development committee, American Association of Physical Anthropologists
- 2019-20 Panelist, Graduate Research Fellowship Program, National Science Foundation
- 2017-19 Publications Committee, Human Biology Association
- 2015-17 Program committee, American Association of Physical Anthropologists' 2016 & 2017 Annual Meeting
- 2015-16 Program committee, Human Biology Association's 2016 Annual Meeting
- 2013- Ad hoc grant reviewer for Sigma Delta Epsilon Graduate Women in Science National Fellowships Program; National Science Foundation Biological Anthropology Section; National Science Foundation Cultural Anthropology Section; Leakey Foundation

- Ad hoc journal reviewer for American Journal of Human Biology; American Journal of Physical Anthropology; American Journal of Primatology; Breastfeeding Medicine; Current Anthropology; Journal of Developmental Origins of Health and Disease; Ecology of Food and Nutrition; Ethnomedicine and Ethnobiology; Evolutionary Anthropology; Evolution, Medicine, and Public Health; Journal of Human Lactation; Human Organization; Maternal and Child Nutrition; Medical Anthropology Quarterly; Journal of Pediatric Gastroenterology and Nutrition; PLOS ONE; Reproductive Sciences; Social Science & Medicine; Yearbook of Physical Anthropology
 2011-12
- 2011-12 Reviewer for American Association of Physical Anthropologists' Undergraduate Research Symposium

MEETING PROCEEDINGS

2020 **Miller, E.M.** (2020). Proceedings of the Human Biology Association 44th Annual Meeting, Hilton Cleveland Downtown, Cleveland, Ohio, March 28, 2019. *American Journal of Human Biology*, 32, e23420. https://doi.org/10.1002/ajhb.23420

ADMINISTRATIVE EXPERIENCE

- 2017-20 Undergraduate Director, Department of Anthropology, University of South Florida
 - Oversee undergraduate curriculum (B.A. in Anthropology, minors in Anthropology and Biomedical Anthropology)
 - Curriculum mapping for B.A. in Anthropology
 - · Collect data and analyze for yearly B.A. assessment
 - Chair Undergraduate Committee
 - Administer undergraduate Honors Program and undergraduate awards
 - Maintain and update undergraduate catalog
 - Propose and develop curriculum for department's new B.S. degree in Biomedical Anthropology
 - Develop curriculum and programming to make B.A. in Anthropology a Global Pathways major as part of the Global Citizen's Project at USF (Quality Enhancement Plan)
 - Design and propose courses for University's new General Education program
 - Attend major fairs and recruitment events (6+ per year)
 - · Orient all new instructors to departmental and university policies
 - Organize and manage class schedule and enrollment for department of 25+ faculty members
 - Administrative backup for fiscal, travel, and research (IRB and internal forms)
 - Assist in planning departmental retreats

UNIVERSITY SERVICE

- 2020-Member, Faculty Advisory Committee, Department of Anthropology, University of South Florida2020-Member, Undergraduate Committee, Department of Anthropology, University of South Florida2020-Member, Diversity and Inclusion Committee, Department of Anthropology, University of South
- Florida
- 2020 Medical Anthropology Instructor Search Committee, Department of Anthropology, University of South Florida
- 2017-20 Chair, Undergraduate Committee, Department of Anthropology, University of South Florida
- 2014-19 Co-coordinator, Medical Anthropology Graduate Certificate Program, Department of Anthropology, University of South Florida
- 2017-18 College of Arts and Sciences Undergraduate Curriculum Committee, University of South Florida
- 2017-18 School of Social Sciences Undergraduate Curriculum Committee, University of South Florida
- 2016-17 Chair, Human biology graduate concentration committee, Department of Anthropology, University of South Florida
- 2016-17 Core Facilities Committee, College of Arts and Sciences, University of South Florida
- 2013, 16, 17 Graduate Student Admissions committee, Department of Anthropology, University of South Florida

- 2015-16 Search committee member, Biological anthropology assistant professor search, Department of Anthropology, University of South Florida
- 2014-15 Provost's Council on Teaching Excellence, University of South Florida
- 2014-16 Computer Committee, College of Arts and Sciences, University of South Florida
- 2014-15 Committee member, Tenure and Promotion Guidelines Revision Committee, Department of Anthropology, University of South Florida
- 2014 Committee member, Anthropology of medicine minor program, Department of Anthropology, University of South Florida
- 2014 Search committee member, Forensic anthropology instructor search, Department of Anthropology, University of South Florida
- 2013 Outside chair for dissertation defense, Department of Integrative Biology, University of South Florida
- Academy for Teaching and Learning Excellence Faculty Liaison, University of South Florida
 Graduate Student Workshop: Applying for an Academic Job, Department of Anthropology, University of South Florida
- 2012-13 Peace Corps Masters Committee, Department of Anthropology, University of South Florida
- 2012-13 Angrosino Award reviewer, Department of Anthropology, University of South Florida
- 2012 Discussant, Graduate Student Colloquium, Department of Anthropology, University of South Florida
- 2009 Student representative to faculty search committee, Department of Anthropology, University of Michigan
- 2006-07 Student representative to faculty meetings, Department of Anthropology, University of Michigan

COMMUNITY SERVICE

- 2016, 18 Planned "Culture of Breastfeeding" conference with Hillsborough County (now Tampa Bay) Breastfeeding Task Force, Tampa General Hospital, Tampa, FL. This conference was designed to educate breastfeeding professionals on cultural diversity in breastfeeding populations and featured nationally-recognized experts in breastfeeding in NICU, hospital, community, and global settings. It is held annually, now heading into its fourth year.
- 2015 Panel discussion, Healthy Start of Manatee County
- 2013-17 Executive committee member, Hillsborough County (Tampa Bay) Breastfeeding Task Force, Tampa, FL
- 2012-19 Member, Hillsborough County (Tampa Bay) Breastfeeding Task Force, Tampa, FL