

Emily R. Middleton, Ph.D. – Curriculum Vitae

Department of Anthropology, University of Wisconsin–Milwaukee

Sabin Hall 140, Milwaukee, WI 53211

Cell: 614.439.9356

E-mail: middleto@uwm.edu

www.emilyrmiddleton.com

EDUCATION

- 2015 **Ph.D., Biological Anthropology**, New York University
Thesis: Ecogeographical influences on trunk modularity in recent humans
Thesis advisor: Susan Antón
- 2008 **M.A., Biological Anthropology**, New York University
- 2005 **B.A., Anthropology**, Summa Cum Laude, with Honors and Distinction, The Ohio State University
B.A., English, Summa Cum Laude, with Honors, The Ohio State University

APPOINTMENTS

- 2018–current Visiting assistant professor, University of Wisconsin-Milwaukee
- 2018–2015 Postdoctoral research fellow, University of Missouri; Supervisor: Carol Ward
- 2014, 2012 Adjunct professor, New York University
- 2013–2007 Teaching assistant, New York University

RESEARCH INTERESTS

Paleoanthropology; modern human variation; ecogeographic adaptation; skeletal biology; hominin evolution; postcranial morphology; modularity; morphological integration; 3D morphometrics

AWARDS AND GRANTS

External funding

- 2016 American Association of Anatomists Postdoctoral Fellowship (\$20,000)
- 2013 Wenner-Gren Foundation Dissertation Fieldwork Grant (\$15,215)
- 2013 Leakey Foundation Research Grant (\$8,505)

University awards/funding

- 2013 New York University Global Research Institute Fellowship (\$2,800)
- 2013 New York University College of Arts and Sciences Outstanding Teaching Award
- 2011 Margaret and Herman Sokol Predissertation Research Award (\$4,000)
- 2009 NYCEP IGERT Summer Research and Travel Grant (\$5,000)

- 2011–2006 Henry H. MacCracken Fellowship, New York University
 2005 President's Salute to Undergraduate Achievement, Ohio State University
 2005 Arts and Sciences Certificate for Excellence in Scholarship, Ohio State University

Travel grants

- 2017 University of Missouri Postdoctoral Association Travel Award (\$105)
 2014 William Pollitzer Student Travel Award (\$500)
 2011 William Pollitzer Student Travel Award (\$500)
 2010 Dean of the Graduate School of Arts and Sciences Travel Grant (\$500)

Academic Honors

- 2003 Phi Beta Kappa
 2003 Phi Kappa Phi

PEER-REVIEWED PUBLICATIONS

Articles

- 2018 Ward, C.V., Maddux, S.D., **Middleton, E.R.** Three-dimensional anatomy of the anthropoid bony pelvis. *Am. J. Phys. Anthropol.* 166, 3–25.
 2017 **Middleton, E.R.**, Winkler, Z.J., Hammond, A.S., Plavcan, J.M., Ward, C.V. Determinants of iliac blade orientation in anthropoid primates. *Anat. Rec.* 300, 810–827.
 2016 Antón, S.C., Taboada, H.G., **Middleton, E.R.**, Rainwater, C.W., Taylor, A.B., Turner, T.R., Turnquist, J.E., Weinstein, K.J., Williams, S.A. Morphological variation in *Homo erectus* and the origins of developmental plasticity. *Philos. Trans. R. Soc. B* 371, 20150236.
 2016 Williams, S.A., **Middleton, E.R.**, Villamil, C.I., Shattuck, M.R. Vertebral numbers and human evolution. *Yearb. Phys. Anthropol.* 159, S19–S36.
 2014 **Middleton, E.R.**, Antón, S.C. *Homo erectus*. In: Smith, C. (Ed.), *Encyclopedia of Global Archaeology*. Springer, New York, pp. 3456–3461.
 2014 Antón, S.C., **Middleton, E.R.** *Homo ergaster*. In: Smith, C. (Ed.), *Encyclopedia of Global Archaeology*. Springer, New York, pp. 3461–3463.

Published abstracts

- 2018 **Middleton, E.R.**, Maddux, S.D., Ward, C.V. Locomotor, phylogenetic, and allometric effects on anthropoid 3D pelvic anatomy. *Am. J. Phys. Anthropol.* 165 (S66), 177.
 2018 Moffett, E.A., **Middleton, E.R.** Effects of pelvic girdle articulation methods on interobserver error in measurements of the bony pelvis of apes. *Am. J. Phys. Anthropol.* 165 (S66), 181.
 2017 **Middleton, E.R.** The modular nature of the trunk skeleton in anthropoid primates. *Fed. Am. Soc. Exp. Biol. J.* 31:396.2.
 2017 **Middleton, E.R.**, Ward, C.V. Functional inferences from vertebral morphology and torso shape in anthropoids. *Am. J. Phys. Anthropol.* 162 (S64), 287.

- 2017 Ward, C.V., **Middleton, E.R.** Inferring hominoid locomotor adaptation from bones: insights from the torso skeleton. *Am. J. Phys. Anthropol.* 162 (S64), 402-403.
- 2017 Cho, E.O., Nalley, T.K., **Middleton, E.R.**, Ward, C.V. Assessment of the thoracolumbar transition in modern humans. *Am. J. Phys. Anthropol.* 162 (S64), 142-143.
- 2016 **Middleton, E.R.** 2D versus 3D shape signals of climatic adaptations in the trunk skeleton of recent humans. *Fed. Am. Soc. Exp. Biol. J.* 30:11.3.
- 2016 **Middleton, E.R.** Obstetric pressures as a driving force of differences in trunk modularity between recent humans and chimpanzees? *Am. J. Phys. Anthropol.* 159 (S162), 228–229.
- 2016 Alwell, M.T., **Middleton, E.R.**, Ward, C.V. Sternum morphology and locomotor adaptation in anthropoid primates. *Fed. Am. Soc. Exp. Biol. J.* 30:1037.6.
- 2016 Bauer, N.M., **Middleton, E.R.**, Ward, C.V. Dental wear, molar shape, and dietary adaptation in early *Australopithecus*. *Fed. Am. Soc. Exp. Biol. J.* 30:779.7.
- 2016 Sarrazin, B.D., **Middleton, E.R.**, Ward, C.V. Thoracic vertebral morphology and locomotor adaptation in anthropoid primates. *Fed. Am. Soc. Exp. Biol. J.* 30:1037.5.
- 2016 Ward, C.V., **Middleton, E.R.** Determinants of variation in trunk morphology in anthropoid primates. *Fed. Am. Soc. Exp. Biol. J.* 30:86.2.
- 2016 Ward, C.V., **Middleton, E.R.** Body shape and hominin origins. *Am. J. Phys. Anthropol.* 159 (S62), 328–329.
- 2016 Ward, C.V., **Middleton, E.R.** Determinants of body shape and co-variation among elements of the bony torso in anthropoids (Primates: Anthropoidea). *Anat. Rec.* 299, 183.
- 2015 **Middleton, E.R.** Insights into trunk modularity: the relationship between lumbar vertebral dimensions and pelvic shape in recent humans and chimpanzees. *Am. J. Phys. Anthropol.* 156 (S60), 225.
- 2014 **Middleton, E.R.** Phenotypic patterns of rib and pelvis covariation in Old vs. New World human populations. *Am. J. Phys. Anthropol.* 153 (S58), 185.
- 2014 Duren, D.L., Nahhas, R.W., **Middleton, E.R.** Skeletal, cutaneous, and anthropometric measures of childhood changes in knee breadth. *Am. J. Phys. Anthropol.* 153 (S58), 111.
- 2014 Antón, S.C., **Middleton, E.R.**, Madimenos, F.C., Snodgrass, J.J. Integrating datasets in biological anthropology: An introduction to the Bones and Behavior Project. *Am. J. Phys. Anthropol.* 153 (S58), 68.
- 2014 Cepen-Robins, T.J., Antón, S.C., Crowder, C.M., Duren, D.L., Fernandez-Duque, E., Leigh, S.R., Madimenos, F.C., McGraw, W.S., **Middleton, E.R.**, Rainwater, C.W., Schmitt, C.A., Sherwood, R.J., Stinson, S., Stubblefield, P., Turner, T.R., Valeggia, C., Snodgrass, J.J. Next steps and best practices in primatology, human biology, forensic anthropology, and paleoanthropology for the Bones and Behavior Project. *Am. J. Phys. Anthropol.* 153 (S58), 92–93.

- 2013 **Middleton, E.R.** Trunk modularity in recent human populations: a preliminary look at rib and pelvis covariation. *Am. J. Phys. Anthropol.* 150 (S56), 198.
- 2013 Rainwater, C.W., **Middleton, E.R.** Introducing new variables into morphometric body mass reconstruction. *Am. J. Phys. Anthropol.* 150 (S56), 228–229.
- 2011 **Middleton, E.R.**, Schmitt, C.A., Di Fiore, A. Ontogenetic changes in prehensile tail use by lowland woolly monkeys (*Lagothrix poeppigii*) in Yasuní National Park, Ecuador. *Am. J. Phys. Anthropol.* 144 (S52), 214–215.
- 2010 **Middleton, E.R.**, Schmitt, C.A., Di Fiore, A. Locomotor and positional behavior of juvenile lowland woolly monkeys (*Lagothrix poeppigii*) in Yasuní National Park, Ecuador. XXIII Congress of the International Primatological Society. Kyoto, Japan.
- 2010 Stubblefield, P.S., Antón, S.C., Snodgrass, J.J., Crowder, C., Di Fiore A., Duren, D.L., Fernandez-Duque, E., Leonard, W.R., Leigh, S.R., Madimenos, F., McGraw, S., **Middleton, E.**, Schmitt, C.A., Sherwood, R.J., Turner, T.R., Vallenggia, C.R., White, F.J. Integrative measurement protocols incorporating morphometric and behavioral research tools from forensic anthropology, human biology and primatology. *Proc. Am. Acad. For. Sci.* 16, 366.
- 2009 **Middleton, E.R.** Three-dimensional geo-morphometric analysis of the pelvis of *Alouatta*, *Lagothrix*, and *Ateles*. *Am. J. Phys. Anthropol.* 138 (S48), 190–191.
- 2009 Antón, S.C., Snodgrass, J.J., Crowder, C., Di Fiore A., Duren, D.L., Fernandez-Duque, E., Leonard, W.R., Leigh, S.R., Madimenos, F., McGraw, S., **Middleton, E.**, Schmitt, C.A., Sherwood, R.J., Stubblefield, P.S., Turner, T.R., Vallenggia, C.R., White, F.J. Integrative measurement protocol for morphological and behavioral research in human and nonhuman primates. *Am. J. Phys. Anthropol.* 138 (S48), 78.
- 2006 **Middleton, E.R.**, Stout, S.D. Intra-skeletal variability in osteon size. *Am. J. Phys. Anthropol.* S42, 75–76.

CONFERENCE SYMPOSIA

- 2017 Organizer and chair. Linked Modules in Anatomical Inference: New Approaches to Morphological Integration. Invited podium symposium, Experimental Biology annual meeting.
- 2014 Co-organizer and co-chair. The Bones and Behavior Project: Fostering Integration across Biological Anthropology. Invited poster symposium, AAPA annual meeting.

TEACHING EXPERIENCE

- 2014 Course director, Human Osteology and Odontology
- 2012 Course director, Introduction to Human Evolution
- 2013–2011 Guest lecturer, Interpreting the Human Skeleton (graduate)
- 2013, 2012, 2008 Teaching Assistant, Human Origins (Morse Academic Plan)

- 2012–2008 Teaching Assistant, Human Osteology and Odontology (graduate)
 2011 Teaching Assistant, Interpreting the Human Skeleton (graduate)
 2009, 2007 Teaching Assistant, Introduction to Human Evolution

FIELDWORK EXPERIENCE

- 2008 Locomotor and positional behavior in *Ateles*, *Aloutta*, and *Lagothrix*. Yasuní National Park, Ecuador. Project advisor: Anthony Di Fiore.
 2005 Excavation and recovery of human remains from the Capilla de San Pedro. Morrope, Peru. Project director: Haagen Klaus.
 2003 ArchaeoSpain Field School: Roman city of Tiermes. Castilla y León, Spain.

RESEARCH EXPERIENCE

- 2017 Postdoctoral data collection: American Museum of Natural History, New York; Museum of Comparative Zoology, Harvard; Zoologische Staatssammlung München.
 2013 Dissertation data collection. British Museum; Dart Collection, University of the Witwatersrand; Gabinete de Antropología Física, Cusco; Makerere University, Kampala; Natural History Museum, London; National Museo Bruning, Peru; National Museum of Nature and Science, Tokyo; Powell-Cotton Museum; Smithsonian.
 2011 Dissertation research pilot study: Investigating patterns of covariation in the ribcage, vertebral column, and pelvis. Cleveland Museum of Natural History.
 2008 Internship in 3D Geometric morphometrics. American Museum of Natural History. Project advisor: Will Harcourt-Smith
 2007 Gross Anatomy dissection course. New York University School of Medicine.
 2005 Skeletal variability in osteon size. Bioarchaeology Lab, Ohio State University. Project advisor: Sam Stout.

SERVICE

Professional service

- 2017-present Reviewer: *Journal of Human Evolution*, *American Journal of Physical Anthropology*, *Evolutionary Biology*
 2017–2013 AAPA Auction Committee
 2015–2008 Editorial assistant, *Journal of Human Evolution*
 2015 Writing prompt content developer for Stanford et al.'s *Biological Anthropology* (4th ed.)
 2014, 2013 AAPA Program Assistant

University service

- 2016 Judge, Undergraduate Research and Creative Achievements Forum
- 2012 Content developer for Human Evolution/Human Origins lab manuals
- 2011 Content manager: Laetoli catalogue faunal specimen database
- 2010 Physical Anthropology Job Search – Student Committee Co-chair
- 2009 Volunteer: “Darwin’s Legacy” NYCEP Paleoanthropology Conference
- 2009 Physical Anthropology Job Search – Student Committee Co-chair
- 2009 Content developer for Human Evolution/Human Origins lab manuals

Community outreach

- 2018–2016 Dinos and Cavemen community outreach event
- 2016 Benton Elementary STEM showcase
- 2015 Wine, Cheese, and Fossils open-house event with hominin fossil casts for Fortnightly Club women’s group at the University of Missouri
- 2012 Organized and led hands-on hominin fossil cast workshops for underrepresented Brooklyn high school students

PROFESSIONAL AFFILIATIONS

- American Association of Physical Anthropologists
- American Association of Anatomists
- Paleoanthropology Society
- International Society of Vertebrate Morphology
- New York Consortium in Evolutionary Primatology