

**DEBBIE GUATELLI-STEINBERG**  
**January 2026**

Department of Anthropology  
The Ohio State University  
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Columbus, OH 43210

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**EDUCATION**

University of Oregon, Ph.D. in Biological Anthropology, 1993-1998.  
Dissertation: *Prevalence and Etiology of Linear Enamel Hypoplasia in Non-Human Primates*.  
Chair: Dr. John Lukacs

University of California, Davis, M.A. in Biological Anthropology, 1984-1986.  
Master's Paper: *Inbreeding Avoidance Related Dispersal in Primates*.  
Adviser: Dr. Peter Rodman

Stanford University, A.B. in Human Biology, 1979-1984.  
Area of concentration: Biology and Culture.  
Adviser: Dr. William Durham

**ACADEMIC APPOINTMENTS**

Professor, Department of Anthropology; Courtesy Professor, Department of Evolution, Ecology, and Organismal Biology. The Ohio State University, Fall 2011-Present.

Honorary Professor, School of Anthropology and Conservation. University of Kent, Fall 2016-Present.

Associate Professor, Department of Anthropology; Courtesy Associate Professor, Department of Evolution, Ecology, and Organismal Biology. The Ohio State University, Fall 2006-Present.

Assistant Professor, Department of Anthropology; Courtesy Assistant Professor, Department of Evolution, Ecology, and Organismal Biology. The Ohio State University, Fall 2000-2006.

Visiting Assistant Professor of Biological Anthropology, Department of Anthropology, University of Oregon, 1999-2000.

Academic Adviser, Department of Academic Advising and Student Services  
University of Oregon, 1999-2000.

**FIELDS OF SPECIALIZATION**

Dental Paleoanthropology: Fossil tooth growth, morphology, and evolution

Dental Primatology: Modern primate variation in tooth growth, sexual dimorphism, morphology

## PROFESSIONAL POSITIONS IN SERVICE OF DISCIPLINE

Associate Editor (Member of Editorial Board): *Journal of Human Evolution*. 2021-2023.

Associate Editor (Member of Editorial Board): *Yearbook of Physical Anthropology*. 2018-2023.

Editorial Board: *Dental Anthropology*. 2017-2020.

Academic Editor: *PLoS ONE*. 2013-2014.

Executive Committee Member, American Association of Physical Anthropologists. 2010-2013.

Associate Editor (Member of Editorial Board): *American Journal of Physical Anthropology*. 2007-2012.

Associate Editor (Member of Editorial Board): *Journal of Human Evolution*. 2007-2010.

President: Dental Anthropology Association: Oversee international organization. 2004-2006.

Book Review Editor: *Dental Anthropology*. 1999-2004.

## TEACHING AWARDS

Distinguished Alumni Award for Teaching Excellence. The Ohio State University, 2006.

- Annual university-wide award given to 10 of 1,000 nominees (\$3,000 plus salary increase)

Barnes Award for Exemplary Teaching. The Ohio State University at Newark, 2003.

- Annual university-wide award given to one of 60 faculty members. (\$1,000)

Teaching Fellow Award for Excellence in Teaching. University of Oregon, 1996.

- Annual university-wide award given to two of 1,300 Graduate Teaching Fellows (\$500)

Madeline Hunter Teaching Award. UCLA, 1987.

- Annual School of Education Award for Teaching Excellence given to four of 60 graduate students (\$1,000)

## OTHER TEACHING FELLOWSHIPS, GRANTS, AND HONORS

Graduate Teaching Fellow Mentor, The Ohio State University, 2005 to Present

- Mentoring graduate teaching fellow in developing teacher training for department

Faculty and TA Development Seed Grant Recipient, The Ohio State University, 2005

- Funding teacher training program for Anthropology Department (\$5,000)

Grant recipient: Honors and Scholars Program, The Ohio State University, 2003

- Funding to seed honors course on human sex differences and sexuality (\$8,900)

Who's Who among American Teachers, The Ohio State University, 2002

Teaching Enhancement Grant, The Ohio State University, 2002

- Funding travel to Olduvai Gorge (\$2,500)

Graduate Teaching Fellowship, UO General Science Program, 1993-98

- Fellowship supporting advising for undergraduate General Science majors (tuition, stipend)

Theodore Stern Fellowship, UO Department of Anthropology, 1996-97

- Annual departmental teaching award given to two doctoral students (tuition, stipend)

Graduate Teaching Fellowship, UO Department of Anthropology, 1995-96

- Fellowship supporting teaching Anthropology to undergraduates (tuition, stipend)

National Medical Enterprises Teaching Fellowship, UCLA, 1986

- Fellowship for prospective biological science teachers (\$500)

## SCHOLARLY HONORS

Innovation in Dental Anthropology Award, Dental Anthropology Association, 2024

Elected Fellow of the American Association for the Advancement of Science (AAAS), 2020

Joan N. Huber Faculty Fellow Award, Social and Behavioral Sciences, The Ohio State University, 2013

Sigma Xi, The Scientific Research Society: Full Membership, The Ohio State University, 2003

Scholarly Accomplishment Award, The Ohio State University (Newark), 2003

Janet Smith Scholarship, University of Oregon, 1997-98

Richard W. Johnson Scholarship, University of Oregon, 1996-97

Who's Who in American Colleges and Universities, 1996

Phi Kappa Phi Honor Society, UC Davis, 1986

Letter of congratulation for performance in Human Biology Core course, Stanford University, 1982

## RESEARCH GRANTS

**National Science Foundation Grant, 2024** PI: Debbie Guatelli-Steinberg; Co-PI: Kaita Gurian

- Funding Doctoral Dissertation Research Improvement Grant: Pre- and Peri-Natal Stress and Sex Differences in Vulnerability *in utero*: Evidence from the Deciduous Dentition (\$11,866).

**National Science Foundation Grant, 2019-2025.** Four PIs: Qian Wang, Debbie Guatelli-Steinberg, Martin Zhao, Luci Kohn.

- Funding multi-year collaboration entitled “A Skeletal Study to Determine Environmental and Familial Effects on Health and Life Expectancy of Rhesus Monkeys from Cayo Santiago” (Total budget \$790,000; PI Guatelli-Steinberg budget \$129,384).

**National Science Foundation Grant, 2020-2023.** PI: Debbie Guatelli-Steinberg. Co-PIs: Scott McGraw, Gary Schwartz.

- Funding research entitled “Analyzing African monkey teeth to strengthen dietary inferences from enamel thickness, distribution and prism orientation in paleoanthropology (\$124,440).

**Ohio State University Social and Behavioral Sciences Special Research Grant, 2018-2019.** Debbie Guatelli-Steinberg and W. Scott McGraw WS (co-investigators).

- Funding for microCT study of non-human primate tooth enamel distribution (\$3,000).

**Leverhulme Trust Full Research Project Grant, 2018-2022.** Patrick Mahoney P (primary applicant), Debbie Guatelli-Steinberg D (co-applicant 1), Priscilla Bayle (co-applicant 2), Carolina Loch Santos (co-applicant 3).

- Funding multi-year international collaboration entitled “The Biorhythm of Childhood Growth,” investigating a fundamental growth rhythm in teeth, its variation across human populations and its relationship to somatic growth rates (£292,491).

**Ohio State University Social and Behavioral Sciences Special Research Grant, 2016.** Debbie Guatelli-Steinberg D (PI).

- Funding Leica Digital microscope for analysis of *Homo naledi* fossil tooth replicas (\$9,930).

**Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP), 2014-2016.** da Gloria P (PI), Menezes Strauss A (collaborator), Suarez Villagran X (collaborator), Elias de Oliveira R (collaborator), Neves Nogueira F (collaborator), Murrieta RSS (collaborator), Piperata BA (collaborator), Guatelli-Steinberg D (collaborator).

- Funding project entitled: Health and lifestyle of the Paleoamericans of Lagoa Santa: An ethnoarchaeological approach (US\$240,000).

**National Science Foundation Grant, 2012-2013.** PIs: Debbie Guatelli-Steinberg, Barbara Piperata; Co-PI: Jennifer Spence

- Funding project entitled: Doctoral Dissertation Research: Deciduous tooth emergence, nutritional status, and weaning and feeding decisions in the Brazilian Amazon (\$30,352).

**National Science Foundation Grant, 2006-2008.** PI: Debbie Guatelli-Steinberg.

- Funding project entitled: Investigating the Effects of Enamel Growth Variables on Linear Enamel Hypoplasia in Primates. (\$86,262).

**Ohio State University Office of International Affairs Grant, 2005.** PI: Debbie Guatelli-Steinberg.

- Funding completion of manuscript with foreign collaborator (\$2,800)

**Leakey Foundation Grant, 2003-2004.** PI: Debbie Guatelli-Steinberg

- Funding study of growth and growth disruption in Neanderthal teeth (\$15,000).

**Ohio State University Social and Behavioral Sciences Special Research Grant, 2002.** PI: Debbie Guatelli-Steinberg

- Funding scanning electron microscope analysis of Neanderthal tooth replicas (\$3,000).

**Leakey Foundation Grant, 2002-2003.** PI: Debbie Guatelli-Steinberg

- Funding study of linear enamel hypoplasia in east African hominids (\$5,000).

**Ohio State University Professional Standards Committee Research Grants, 2001 and 2002.** PI: Debbie Guatelli-Steinberg

- Funding scanning electron microscope analysis of hominid tooth impressions (\$4,000)

**Ohio State University Seed Grant Program Award, 2001.** PI: Debbie Guatelli-Steinberg

- Funding research on enamel hypoplasia in East and South African hominids (\$10,500)

**Ohio State University Professional Standards Committee Research Grant, The Ohio State University, 2001.** PI: Debbie Guatelli-Steinberg

- Funding research on chimpanzee and gorilla enamel hypoplasia (\$1,500)

**University of Oregon Graduate Research Awards, 1998, 1997, 1996.** PI: Debbie Guatelli-Steinberg

- Funding travel to present a paper at annual AAPA conference (\$600)

**National Science Foundation Grant, 1997-1998.** PI: John Lukacs, Co-PI: Debbie Guatelli-Steinberg

- Funding doctoral dissertation research on linear enamel hypoplasia in non-human primates (\$7,761).

## BOOK

**Guatelli-Steinberg, D.,** 2016. *What Teeth Reveal About Human Evolution.* Cambridge: Cambridge University Press.

## PEER-REVIEWED JOURNAL ARTICLES

**Guatelli-Steinberg, D.,** Fannin, L. D., & Wang, Q. (2025). How wear, age, and sex relate to enamel chipping in Cayo Santiago rhesus macaques (*Macaca mulatta*). *PLoS One*, 20(12), e0337554.

Scheinblum, J., McGraw, W. S., Gurian, K., & **Guatelli-Steinberg, D.** (2025). Enamel Prism Angle Variation and Hard-Object Feeding in Cercopithecoids With Known Diets. *American Journal of Biological Anthropology*, 188(3), e70167.

Fannin, L. D., **Guatelli-Steinberg, D.**, Arft-Guatelli, J., Clauss, M., Dominy, N. J., & McGraw, W. S. (2025). Chewing performance and the structure of primate communities. *Proceedings of the Royal Society B: Biological Sciences*, 292(2061).

Gurian, K\*. N., **Guatelli-Steinberg, D.**, McGraw, W. S., Rychel, J., & O'Hara, M. C. (2025). Inter-Observer Processing and Measurement Error Are Low for 2D Dental Measurements on Shared microCT Scans. *American Journal of Biological Anthropology*, 186(2), e70001.

- Lemmers, S. A., Le Luyer, M., Stoll, S. J., Hoffnagle, A. G., Ferrell, R. J., Gamble, J. A., **Guatelli-Steinberg, D.**, Gurian, K\*, McGrath, K., O'Hara, M., Smith, A., and Dunn, E. C. (2025). Inter-rater reliability of stress signatures in exfoliated primary dentition- Improving scientific rigor and reproducibility in histological data collection. *PLoS one*, 20(3), e0318700.
- Zhao, M. Q., Novak, C. T., Gong, R., Kaur, M., **Guatelli-Steinberg, D.**, Kensler, T. B., ... & Wang, Q. (2025). CSViewer for Analysts: I. Building an Integrative Database and Knowledge Model for the Cayo Santiago Rhesus Macaque Colony and Its Derived Skeletal Collections. *American Journal of Primatology*, 87(3), e70015.
- Zhao, M. Q., Gong, R., Kaur, M., Kundu, S., Francis, G., Kensler, T. B., **Guatelli-Steinberg, D.**, Maldonado, E., Kohh, L., & Wang, Q. (2025). CSViewer for Analysts: II. Analytic Tools and Visualization of Founder Lineages, Social Groups, and Reproduction Dynamics of the Cayo Santiago Rhesus Macaque Colony. *American Journal of Primatology*, 87(7), e70055.
- Kohn, L., Schulz, K., Kensler, T. B., Maldonado, E., **Guatelli-Steinberg, D.**, Zhao, M. Q., ... & Wang, Q. (2025). Dental Fluctuating Asymmetry: Environmental Factors Influencing Cayo Santiago Rhesus Macaque (*Macaca mulatta*) Dental Development. *American Journal of Primatology*, 87(11), e70085.
- Towle, I., O'Hara, M. C., Leece, A. B., Herries, A. I., Adjei, A., **Guatelli-Steinberg, D.**, ... & Hlusko, L. J. (2025). Uniform, circular, and shallow enamel pitting in hominins: Prevalence, morphological associations, and potential taxonomic significance. *Journal of Human Evolution*, 204, 103703.
- Guatelli-Steinberg, D.**, Watson, J., Samuel, L., Showalter, E., Lerner, F., Dixon, E., Kensler, T.B., Francis, G., Maldonado, E., Kohn, L.A. and Zhao, M.Q. (2024). Revisiting Linear Enamel Hypoplasia in Cayo Santiago Rhesus Macaques (*Macaca mulatta*): How a Stress Marker Relates to Environment and Maternal Lineage in a Rare Rhesus Colony With Known Life History. *American Journal of Primatology*, p.e23692.
- Blankenship-Sefczek, E.C., Goodman, A.H., Hubbe, M., Hunter, J.P. and **Guatelli-Steinberg, D.** (2024). Nutritional supplementation, tooth crown size, and trait expression in individuals from Tezonteopan, Mexico. *PLOS One*, 19(6), p.e0305123.
- Clark, M.A., **Guatelli-Steinberg, D.**, Hubbe, M. and McDonnell, C. (2024). Hidden in plain text: Uncovering hidden heterogeneity and social stratification in Ireland AD 1150–1800. *American Journal of Biological Anthropology*, p.e25034.
- Guatelli-Steinberg, D.**, Guatelli-Steinberg, D., Gurian\*, K., & McGraw, W. S. (2024). Brief Report: Differences in maxillary premolar form between *Cercocebus* and *Lophocebus*. *Journal of Human Evolution*, 186, 103467.
- Guatelli-Steinberg, D.**, Kensler, T. B., Francis, G.\* , Maldonado, E., Kohn, L. A., Zhao, M. Q., & Wang, Q. (2024). Brief Communication: Talon cusp expression in Cayo Santiago rhesus macaques (*Macaca mulatta*). *American Journal of Biological Anthropology* 183:172-177.

**Guatelli-Steinberg, D.**, Renteria, C\*, Grimm, J. R\*, Carpenter, I. M\*, Arola, D. D., & McGraw, W. S. (2023). How mangabey molar form differs under routine vs. fallback hard-object feeding regimes. *PeerJ*, *11*, e16534.

**Guatelli-Steinberg, D.**, Schwartz, G. T., O'Hara, M. C\*, Gurian, K\*, Rychel, J., Dunham, N., ... & McGraw, W. S. (2023). Aspects of molar form and dietary proclivities of African colobines. *Journal of Human Evolution*, *180*, 103384.

O'Hara, M. C., McGraw, W. S., & **Guatelli-Steinberg, D.** (2023). Some orangutans acquire enamel defects at regular intervals, but not according to seasonal cycles. *American Journal of Biological Anthropology*, *180*(3), 519-533.

Floyd, B., Battles, H. T., White, S., Loch, C., McFarlane\*\*, G., **Guatelli-Steinberg, D.**, & Mahoney, P. (2023). Longitudinal changes in juvenile and adolescent body mass indices before, during, and after the COVID-19 lockdown in New Zealand. *American Journal of Human Biology*, *35*(5), e23861.

Salaymeh, J. K., Erkens, J., Beamish, E., McGraw, W. S., **Guatelli-Steinberg, D.**, & McGrath, K.(2023). A histological study of enamel developmental defects in a chacma baboon (*Papio ursinus*) incisor. *Dental Anthropology Journal*, *36*(2), 3-14.

**Guatelli-Steinberg, D.**, Schwartz, G.T., O'Hara, M.C., Gurian, K., Rychel, J. and McGraw, W.S. (2022). Molar form, enamel growth, and durophagy in *Cercocebus* and *Lophocebus*. *American Journal of Biological Anthropology*, *179*(3), pp.386-404.

Mahoney, P., McFarlane, G., Loch, C., White, S., Floyd, B., Dunn, E.C., Pitfield, R., Nava, A. and **Guatelli-Steinberg, D.**, 2022. Dental biorhythm is associated with adolescent weight gain. *Communications Medicine*, *2*(1): 1-13.

**Guatelli-Steinberg, D.**, Guerrieri, T., Kensler, T.B., Maldonado, E., Francis, G., Kohn, L.A., Zhao, M.Q., Turnquist, J.E. and Wang, Q., 2022. Male Cayo Santiago rhesus macaques (*Macaca mulatta*) tend to have greater molar wear than females at comparable ages: Exploring two possible reasons why. *American Journal of Biological Anthropology*, *178*:437-447.

Calhoun, G.V., **Guatelli-Steinberg, D.**, Lagan, E.M. and McGraw, W.S., 2022. Dental macrowear, diet, and anterior tooth use in *Colobus polykomos* and *Piliocolobus badius*. *Journal of Human Evolution*, *163*: 103-123.

O'Hara, M.C. and **Guatelli-Steinberg, D.**, 2022. Reconstructing tooth crown heights and enamel caps: A comparative test of three existing methods with recommendations for their use. *The Anatomical Record*, *305*: 123-143.

Lawrence, J., Stojanowski, C.M., Paul, K.S., Seidel, A.C., **Guatelli-Steinberg, D.**, 2021. Heterogeneous Frailty and the expression of linear enamel hypoplasia in a genealogical population. *American Journal of Physical Anthropology* *176*: 638-651.

McGrath, K., Limmer, L. Lockey A.L., **Guatelli-Steinberg, D.**, Reid, D.J., Witzel, C.; Bocaege, E., McFarlin, S., El Zaatari, S., 2021. 3D enamel profilometry reveals faster growth but similar stress severity in Neanderthal vs. *Homo sapiens* teeth. *Scientific Reports*. *11*:1-12.

- McFarlane, G., **Guatelli-Steinberg, D.**, Loch, C., White, S., Bayle, P., Floyd, B., Pitfield, R. and Mahoney, P., 2021. An inconstant biorhythm: the changing pace of Retzius periodicity in human permanent teeth. *American Journal of Physical Anthropology*, 175: 172-186.
- O'Hara, M.C. and **Guatelli-Steinberg, D.** (2020). Differences in enamel defect expression and enamel growth variables in *Macaca fascicularis* and *Trachypithecus cristatus* from Sabah, Borneo. *Journal of Archaeological Science* 114: 105078. Special Issue: Stressed Out: Reconsidering stress in the study of archaeological human remains.
- Fannin, L., **Guatelli-Steinberg, D.**, Geissler, E., Morse, P., Constantino, P., McGraw W.S. (2020). Enamel chipping in Tai Forest cercopithecids: Implications for dietary reconstruction in paleoanthropological contexts. *Journal of Human Evolution* 141 (2020): 102742.
- Mahoney, P., McFarlane, G., Pitfield, R., O'Hara, M. C., Miskiewicz, J. J., Deter, C., Seal, H, and **Guatelli-Steinberg, D.** (2020). A structural biorhythm related to human sexual dimorphism. *Journal of Structural Biology*, 211(2), 107550.
- Xing, S., Tafforeau, P., O'Hara, M. C., Modesto-Mata, M., Martín-Francés, L., Martínón-Torres, M., Schepartz, L.A., de Castro, J.M.B. and **Guatelli-Steinberg, D.**, (2020). A broader perspective on estimating dental age for the Xujiayao juvenile, a late Middle Pleistocene archaic hominin from East Asia. *Journal of Human Evolution*, 102850.
- McGrath, K, Reid, D.J., **Guatelli-Steinberg, D.**, Abrenz-Smith, K., El Zaatari, S., Fatica, L.M., Kralick, A.E., Cranfield, M.R., Stoinski, T.S., Bromage, T.G., Mudakikwa, Al, McFarlane, S.C. (2019). Faster growth corresponds with shallower linear hypoplastic defects in great ape canines. *Journal of Human Evolution* 137: 102691.
- Benderlioglu, Z., **Guatelli-Steinberg, D.** (2019). Is there a link between matriline dominance rank and linear enamel hypoplasia? An assessment of defect prevalence and count in Cayo Santiago rhesus macaques (*Macaca mulatta*). *International Journal of Primatology* 40(2): 263-275.
- Stojanowski, C. M., Paul, K. S., Seidel, A. C., Duncan, W. N., & **Guatelli-Steinberg, D.** (2019) Quantitative genetic analysis of postcanine morphological crown variation. *American Journal of Physical Anthropology* 168(3): 606-631.
- Xing, S., Tafforeau, P., O'Hara, M., Modesto-Mata, M., Martin-Frances, L., Martinon-Torres, M., Zhang, L., Schepartz, L.A., Bermudez de Castro, J.M., **Guatelli-Steinberg, D.** (2019). First systematic assessment of dental growth and development in an archaic hominin (genus, *Homo*) from East Asia. *Science Advances*. 5(1), eaau0930.
- O'Hara, M. C., Le Cabec, A., Xing, S., Skinner, M. F., & **Guatelli-Steinberg, D.** (2018). Safe casting and Reliable cusp reconstruction assisted by micro-computed tomographic scans of fossil teeth. *The Anatomical Record*. <https://doi.org/10.1002/ar.24047>
- Guatelli-Steinberg, D.**, O'Hara, M., Le Cabec, A., Delezene, L., Skinner, M., Berger, L. (2018). Patterns of lateral enamel growth in *Homo naledi* as assessed by perikymata distribution and number. *Journal of Human Evolution* 121: 40-54

- Irish, J., Bailey, S., **Guatelli-Steinberg, D.**, Delezenne, L., Berger, L. (2018). Ancient teeth, phenetic affinities, and African hominins: Another look at where *Homo naledi* fits in. *Journal of Human Evolution* 122: 108-123.
- Guatelli-Steinberg, D.** (2018). Dental anthropology in the AJPA: Its roots and heights. *American Journal of Physical Anthropology* 165: 879-892.
- McGrath, K., El Zaatari, S., **Guatelli-Steinberg, D.**, Stanton, M., Reid, D.J., Stoinski, T., Mudakikwa, A., Cranfield, M., McFarlin, S. (2018). Quantifying linear enamel hypoplasia in Virunga mountain gorillas and other great apes. *American Journal of Physical Anthropology*. 166: 337-352.
- Stojanowski, C. M., Paul, K. S., Seidel, A. C., Duncan, W. N., & **Guatelli-Steinberg, D.** (2018). Heritability and genetic integration of anterior tooth crown variants in the South Carolina Gullah. *American Journal of Physical Anthropology* 167: 124-143.
- Clark, M. A., & **Guatelli-Steinberg, D.** (2018). A third molar from Rathfarnham, Dublin, and the patterning cascade model. *International Journal of Osteoarchaeology*, 28: 727-734.
- Guatelli-Steinberg, D.**, Pampush, J.D., O'Hara, M.C., Xing, S., McGraw, W.S. and Ferrell, R.J. (2018). Do mid-crown enamel formation front angles reflect factors linked to the pace of primate growth and development?" *The Anatomical Record* 301: 125-139.
- Mahoney, P., Miskiewicz, J.J., Chapple, S., Le Luyer, M., Schlecht, S.H., Stewart, T.J., Griffiths, R.A., Deter, C. and **Guatelli-Steinberg, D.**, (2017). The biorhythm of human skeletal growth. *Journal of Anatomy*. doi: 10.1111/joa.12709.
- Stojanowski, C. M., Paul, K. S., Seidel, A. C., Duncan, W. N., & **Guatelli-Steinberg, D.** (2017). Heritability and genetic integration of tooth size in the South Carolina Gullah. *American Journal of Physical Anthropology*, 164, 505-521.
- Krueger, K.L., Ungar, P.S., **Guatelli-Steinberg, D.**, Perez-Perez M., Trinkaus, E., Frayer D.W., Hublin J.J. (2017) Anterior dental microwear textures show climate-driven variability in Neandertal behavior. *Journal of Human Evolution*, 105: 13-23.
- Reid, D.J. and **Guatelli-Steinberg, D.** (2017) Brief Communication: Updating histological data on crown Initiation and crown completion ages in southern Africans. *American Journal of Physical Anthropology* 162: 817-829.
- Xing, S., O'Hara, M., Guatelli-Steinberg, D., Ge, J., Liu, W. (2017). Dental scratches and handedness in East Asian Early Pleistocene hominins. *International Journal of Osteoarchaeology* 27: 937-946.
- Mahoney, P. Miskiewicz J.J., Pitfield R., Deter, C., **Guatelli-Steinberg, D.** (2017) Enamel biorhythms of humans and great apes: The Havers-Halberg Oscillation hypothesis reconsidered. *Journal of Anatomy* 230: 272-281.
- Mahoney, P. Miskiewicz J.J., Pitfield R., Schlecht S.H., Deter, C., **Guatelli-Steinberg, D.** (2016) Biorhythms, deciduous enamel thickness, and primary bone growth in modern human children: a test of the Havers-Halberg Oscillation hypothesis. *Journal of Anatomy* 218: 919-928.

- Hubbard, A.R., **Guatelli-Steinberg, D.**, Irish, J.D. (2015) Do nuclear DNA and dental nonmetric data produce similar reconstructions of regional population history? An example from modern coastal Kenya. *American Journal of Physical Anthropology* 157: 295-304.
- Xing, S. **Guatelli-Steinberg, D.**, O'Hara, M., Wu, X., Liu, W., Reid, D.J. (2015). Brief Communication: perikymata distribution in *Homo* with special reference to the Xujiayao juvenile. *American Journal of Physical Anthropology* 157: 684-693.
- Clark, M.A., **Guatelli-Steinberg, D.**, Hubbe, M., Stout, S. (2015). Technical Note: Quantification of maxillary dental arcade curvature and the estimation of biological ancestry in forensic anthropology. *Journal of Forensic Sciences* 61: 141-146.
- Xing, S. **Guatelli-Steinberg, D.**, O'Hara, M., Li, J., Wei, P., Liu, W., Wu, X., (2015). Micro-CT imaging and analysis of enamel defects on the Early Late Pleistocene Xujiayao juvenile. *International Journal of Osteoarchaeology*. 26: 935-946.
- Guatelli-Steinberg, D.**, Stinespring-Harris, A., Reid, D.J., Larsen, C.S., Hutchinson, D., Smith, T.M. (2014) Chronology of linear enamel hypoplasia formation in the Krapina Neandertals. *PaleoAnthropology* 2014: 431-445.
- Irish, D., **Guatelli-Steinberg, D.**, Legge, S., Berger, L., and de Ruiter, D. (2014). Response to 'Non-metric dental traits and hominin phylogeny' by Carter et al. (2013), with additional information on the Arizona State University Dental Anthropology System and phylogenetic 'place' of *Australopithecus sediba*. *Journal of Human Evolution* 69: 129-134.
- Ullinger, J.M., Sheridan, S., **Guatelli-Steinberg, D.** (2014) Fruits of their labor: Urbanization, orchard crops and dental health in Early Bronze Age Jordon. *International Journal of Osteoarchaeology*. DOI: 10.1002/oa.2342
- Temple, D., McGroarty, J., **Guatelli-Steinberg, D.**, Nakatsukasa, M., Matsumura, H. 2013. A comparative study of stress episode prevalence and duration among Jomon Period foragers from Hokkaido. *American Journal of Physical Anthropology* 152: 230-238.
- Hlusko, L.J., Carlson, J.P., **Guatelli-Steinberg, D.**, Krueger, K.L., Mersey, B., Ungar, P.S., Defleur, A. 2013. Neanderthal teeth from Moula-Guercy, Ardèche, France. *American Journal of Physical Anthropology* 151: 477-491.
- Irish, D., **Guatelli-Steinberg, D.**, Legge, S., Berger, L., and de Ruiter, D. 2013. Dental morphology and the phylogenetic 'place' of *Australopithecus sediba*. *Science* 340: 1233062:1-4.
- Moormann, S., **Guatelli-Steinberg, D.**, and Hunter, J.P. 2013. The Patterning Cascade Model and expression of Carabelli trait in humans: differences between first and second molars and correlation with other dental traits. *American Journal of Physical Anthropology* 150:400-408.
- Holt, S., Reid, D.J., **Guatelli-Steinberg, D.** 2013. Brief Communication: Premolar enamel formation: Completion of figures for aging LEH defects. *Dental Anthropology* 25: 4-7
- Volpato, V., Macchiarelli, R., **Guatelli-Steinberg, D.**, Fiore I., Bondioli L., and Frayer, D. 2012. Hand to Mouth in a Neandertal: Right-handedness in Regourdou 1. *PLoS ONE* 7: e43949.

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**Guatelli-Steinberg, D.**, Calhoun, G.V, and Hubbe, M. 2019. Another look at canine variation in Neanderthals *Poster presented (by D. Guatelli-Steinberg) at the 88th Annual Meeting of the American Association of Physical Anthropology. Cleveland.*

- Calhoun, G.V., Lagan, E.M., **Guatelli-Steinberg, D.**, Morse P.E., McGraw, W.S. 2019. Dental microwear, diet, and anterior tooth use in *Ptilocolobus badius* and *Colobus polykomos*. *Poster presented (by G.V. Calhoun) at the at the 88th Annual Meeting of the American Association of Physical Anthropology. Cleveland.*
- Fannin, L.D., **Guatelli-Steinberg, D.**, Geissler, E., Constantino P., and McGraw, W.S. 2019. Frequency of enamel chipping in Tai Forest cercopithecoids: Implications for dietary reconstruction in paleoanthropological contexts. *Poster presented (by L.D. Fannin) at the 88th Annual Meeting of the American Association of Physical Anthropology. Cleveland.*
- McGrath, K., Reid, D.J., **Guatelli-Steinberg, D.**, Arbenz-Smith, K., El-Zaatari, S., Faticia, L.M., Cranfield, M.R., Stoinski, T.S., Bromage, T.G., Mudakikwa, A.M., McFarlin, S. 2019. Enamel growth variation corresponds with LEH defect depth in great apes. *Paper presented (by K. McGrath) at the at the 88th Annual Meeting of the American Association of Physical Anthropology. Cleveland*
- O'Hara, M.C., Skinner, M.M., **Guatelli-Steinberg, D.** 2019. Comparative two-dimensional relative enamel thickness (RET) of South African hominin premolars. *Paper presented (by M. O'Hara) at the at the 88th Annual Meeting of the American Association of Physical Anthropology. Cleveland.*
- Oldershaw, L., O'Hara, M., **Guatelli-Steinberg, D.**, McGraw, S. 2019. Variation in enamel formation front angles and enamel thickness in anterior and posterior cercopithecoid teeth. *Poster presented (by L. Oldershaw) at the at the 88th Annual Meeting of the American Association of Physical Anthropology. Cleveland.*
- Spence, J., **Guatelli-Steinberg, D.**, Piperata B.A., Floyd, B., Silva, H.P. 2019. Infant condition and the timing of deciduous tooth emergence in the Brazilian Amazon. *Poster presented (by J.Spence) at the at the 88th Annual Meeting of the American Association of Physical Anthropology. Cleveland.*
- Fannin, L.D., **Guatelli-Steinberg, D.**, Geissler, E., Constantino P., and McGraw, W.S. 2018. Frequency of enamel chipping in Tai Forest cercopithecoids: Implications for dietary reconstruction in paleoanthropological contexts. *Poster presented (by L.D. Fannin) at the 2018 MidWest Primate Interest Group (MPIG) conference.*
- Guatelli-Steinberg, D.**, O'Hara, M., Le Cabec, A., Delezene, L., Skinner, M., Berger, L. 2018. Patterns of lateral enamel growth in *Homo naledi* as assessed by perikymata distribution and number. *Paper presented (by D. Guatelli-Steinberg) at the 87th Annual Meeting of the American Association of Physical Anthropology. Austin.*
- Clark, MA, and **Guatelli-Steinberg, D.** 2018. Abnormal Cusp Morphology and Root Number in a Third Molar from Rathfarnham, Dublin. *Poster presented (by M.A. Clark) at the 87th Annual Meeting of the American Association of Physical Anthropology. Austin.*
- Calhoun, G.V., **Guatelli-Steinberg, D.**, Hubbe, M. 2018. Quantifying sexual dimorphism in the geometry of modern human canines. *Poster presented (by G.V. Calhoun) at the 87th Annual Meeting of the American Association of Physical Anthropology. Austin.*

- Mahoney, P., Miskiewicz, J.J., Chapple, S., Le Luyer, M., Schlecht, S.H., Stewart, T.J., Griffiths, R.A., Deter, C. and **Guatelli-Steinberg, D.**, 2018. The biorhythm of human skeletal growth. *Poster presented (by P. Mahoney) at the 87<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. Austin.*
- McGrath, K., El Zaatari, S., **Guatelli-Steinberg, D.**, Stanton, M., Reid, D.J., Stoinski, T., Mudakikwa, A., Cranfield, M., McFarlin, S. 2018. Histological correlates of LEH expression in great apes. *Poster presented (by K. McGrath) at the 87<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. Austin.*
- Benderlioglu, Z., **Guatelli-Steinberg, D.** 2018. Exploring a connection between matriline dominance rank and linear enamel hypoplasia in Cayo Santiago rhesus monkeys. *Poster presented (by D. Guatelli-Steinberg) at the 87<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. Austin.*
- O'Hara M., **Guatelli-Steinberg, D.** 2017. Are developmental defects of enamel acquired according to seasonal schedules in Bornean gibbons and orangutans? An autocorrelation analysis. *Poster presented (by M. O'Hara) at the 86<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. New Orleans.*
- Spence, J.E., Floyd, B., **Guatelli-Steinberg, D.**, and Piperata, B. 2017. Can the timing of deciduous tooth emergence be partially accounted for by mother's past or current Circumstances? *Paper presented (by J. Spence) at the 86<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. New Orleans.*
- Mahoney, P., Miskiewicz, J.J., Pitfield, R., Deter, C., **Guatelli-Steinberg, D.** 2017. Biorhythm tracks enamel thickness in humans and great apes. *Poster presented (by P. Mahoney) at the 86<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. New Orleans.*
- Blankenship-Sefczek, E., **Guatelli-Steinberg, D.**, Goodman, A.H. 2017. Tooth size, trait expression, and nutritional stress. *Poster presented (by P. Mahoney) at the 86<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. New Orleans.*
- Guatelli-Steinberg, D.**, O'Hara, M., Xing, S., and Reid, D.J. 2016. Perikymata distribution relative to total perikymata number within the genus *Homo*. (Invited submission). *Poster presented (by D. Guatelli-Steinberg and M. O'Hara) at the 85<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. Atlanta.*
- Mahoney P., Miskiewicz, J.J., Pitfield, R., Schlecht, S.H., Deter, C.A., **Guatelli-Steinberg, D.** 2016. biorhythms, deciduous enamel thickness, and primary bone growth in modern human children: a test of the Havers-Halberg Oscillation Hypothesis. *Poster presented (by P. Mahoney) at the 85<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. Atlanta.*
- O'Hara M., **Guatelli-Steinberg, D.** 2016. Use of standard perikymata profiles to estimated chronologies of linear enamel hypoplasia (LEH). *Poster presented (by M. O'Hara) at the 85<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology. St. Louis.*

- O'Hara M., **Guatelli-Steinberg, D.** 2015 A comparison of *Pan paniscus* and *Pan troglodytes* perikymata distribution in upper incisors and lower canines by crown length and height. *Poster presented (by M. O'Hara) at the 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology.* St. Louis.
- Clark, A., **Guatelli-Steinberg, D.**, Hubbe, M., Ferrell, R. 2015. Lateral enamel formation of anterior teeth and life history in New World Monkeys. *Poster presented (by A. Clark) at the 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology.* St. Louis.
- Guatelli-Steinberg, D.**, Ferrell R, Pampush J. 2015. Variation in primate enamel formation front angles. *Poster presented at the 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology.* St. Louis.
- McGrath, K., **Guatelli-Steinberg, D.**, Arbenz-Smith, K., Reid, D.J., Cranfield, M.R., Stoinsky T.S., Mudakikwa, A., Bromage, T. McFarlin, S. 2015. Linear enamel hypoplasia prevalence in wild Virunga mountain gorillas. *Poster presented (by K. McGrath) at the 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology.* St. Louis.
- Williams, L.L., **Guatelli-Steinberg, D.**, Larsen, C.S., Sciulli P.W. 2015. Complex evidence of stress in Medieval and post-medieval central Europe. *Poster presented (by L. Williams) at the 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropology.* St. Louis.
- Huffman, M., **Guatelli-Steinberg, D.**, Hubbe, M. 2014. The Peopling of South America: Analysis of Dental Morphology. *83rd Annual Meeting of the American Association of Physical Anthropology.* Calgary.
- Modesto, M., Dean, C., Gracia, A., Martinon-Torres, M., Martin-Frances, L., **Guatelli-Steinberg, D.**, Reid, D., Martinez, I., Arsuaga, J.L., Bermudez de Castro, J.M. 2013. Estudio comparativo de los perikymata en los dientes del hominino XVIII de la Sima de los Huesos (Sierra de Atapuerca). XVIII Congreso de la Sociedad Española de Antropología Física (SEAF13) (XVIII Congress of the Spanish Society of Physical Anthropology), Bilbao.
- Martin, S., **Guatelli-Steinberg, D.**, Sciulli, P., 2013. First molar dental fluctuating asymmetry and the pace of life history in non-human primates. Supplement 56: 191. *Poster presented (by S. Martin) at the 82<sup>nd</sup> annual meeting of the American Association of Physical Anthropologists.*
- Fraye, D. Volpato, V., Macchiarelli, R., **Guatelli-Steinberg, D.**, Fiore I., Bondioli L., 2012. Right-handedness in Regourdou 1 . AJPA Supplement 54:156-157. *Paper presented (by D. Frayer) at the 81<sup>st</sup> annual meeting of the American Association of Physical Anthropologists.*
- Hubbard, A., **Guatelli-Steinberg, D.**, Sciulli, P., Fuerst, P., 2012. An examination of the agreement Between genetic and dental reconstructions of biological distance among regional populations. AJPA Supplement 54:169. *Paper presented (by A. Hubbard) at the 81<sup>st</sup> annual meeting of the American Association of Physical Anthropologists.*
- McGroarty, J., A., Temple, D., **Guatelli-Steinberg, D.**, Nakatsukasa M., Matsumara, H., 2012. Microstructural analysis of linear enamel hypoplasia and estimation of stress episode duration in Jomon period dental remains from Hokkaido with comparison to other cold-adapted foragers.

AJPA Supplement 54:210. *Poster presented (by J. McGroarty) at the 81<sup>st</sup> annual meeting of the American Association of Physical Anthropologists.*

Moormann, S., **Guatelli-Steinberg, D.**, and Hunter, J. 2012. The Patterning Cascade Model and expression of the Carabelli feature in humans: differences between first and second molars and correlations with other dental traits. Supplement 54:217. *Poster presented (by S. Moormann) at the 81<sup>st</sup> annual meeting of the American Association of Physical Anthropologists.*

Stinespring-Harris, A., **Guatelli-Steinberg, D.**, Reid, D.J., Larsen, C.S., Hutchinson, D., Smith, T.M., 2012. Chronology of linear enamel hypoplasia formation in the Krapina Neandertals. AJPA Supplement 54:278. *Poster presented (by A. Stinespring-Harris) at the 81<sup>st</sup> annual meeting of the American Association of Physical Anthropologists.*

**Guatelli-Steinberg, D.**, Reid, D.J., Floyd, B., Dean, M.C. 2011. Relationships among extension rates, crown formation time, and perikymata distribution: implications for Neandertals. AJPA Supplement 52:151. *Poster presented (by D. Guatelli-Steinberg) at the 80<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

Hubbard, A., **Guatelli-Steinberg, D.**, and Sciulli, P.W. 2011. An examination of biological distance and Population structure among four coastal Kenyan populations. AJPA Supplement 52:169. *Poster presented (by A. Hubbard) at the 80<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

Martin, S., **Guatelli-Steinberg, D.**, and Sciulli, P.W. 2011. Relationships among crown formation time, fluctuating asymmetry, and linear enamel hypoplasia in gibbons and gorillas. AJPA Supplement 52:207. *Poster presented (by S. Martin) at the 80<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

Piperata, B., **Guatelli-Steinberg, D.** 2011. Offsetting the costs of reproduction: the role of social support in human evolution. AJPA Supplement 52:239. *Paper presented (by B. Piperata) at the 80<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

Smith, T.M., Tafforeau, P., Reid, D.J., Pouech, J., Lazzari, V., Zermeno, J.P., **Guatelli-Steinberg, D.**, Olejniczak A.J., Hoffman A., Radovčić J., Toussaint M., Stringer, C., and Hublin J.J. 2011. Histological evidence for ontogenetic differences between modern humans and Neanderthal dentitions. AJPA Supplement 52:278-279. *Poster presented (by T. Smith) at the 80<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

**Guatelli-Steinberg, D.**, Ferrell, R., Spence, J. 2010. Linear enamel hypoplasia as an indicator of physiological stress in great apes: reviewing the evidence in light of species differences in enamel growth. AJPA Supplement 50:118. *Paper presented (by D. Guatelli-Steinberg) at the 79<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

Schubert, R., **Guatelli-Steinberg, D.**, Sciulli P, McGraw, S. 2010. Incisor curvature and diet in cercopithecoids. AJPA Supplement 50: 209-210. *Poster presented (by R. Schubert) at the 79<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

Spence, J., **Guatelli-Steinberg, D.**, Schwartz, G., and Stojanowski, C. 2010. Growth and health status of Holocene occupants of Gobero, Central Sahara Desert: an analysis of linear enamel

hypoplasias. AJPA Supplement 50:221. *Poster presented (by J. Spence) at the 79<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

- Guatelli-Steinberg, D.** 2009. Teeth and life history in Neanderthals and modern humans. *Paper presented at Wenner-Gren sponsored conference: Life History, Evolution Theory, and Human Longevity.* The Ohio State University, Columbus, Ohio.
- Piperata, B., and **Guatelli-Steinberg, D.** 2009. Life history, selection and the energetics of lactation. *Paper presented (by B. Piperata) at annual meeting of the American Association for the Advancement of Science.*
- Barrett, C., **Guatelli-Steinberg, D.**, and Sciulli P. 2009. Comparison of fluctuating dental asymmetry in Neandertals and Inuit. AJPA Supplement 48:83-85. *Paper presented (by C. Barrett) at the 78<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Feeney, R.N.M., Olejniczak, A.J., **Guatelli-Steinberg, D.**, and Hublin, J.-J.2009. Variation in dental tissue distribution in molar crowns of human males and females. AJPA Supplement 48:127. *Poster presented (by R.N.M. Feeney) at the 78<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Martin, S.A., **Guatelli-Steinberg, D.**, and Sciulli, P. 2009. Sex differences in canine crown fluctuating asymmetry in *Gorilla gorilla*: A result of ontogenetic mechanisms underlying adult canine size sexual dimorphism? AJPA Supplement 48: 185. *Poster presented (by S.A. Martin) at the 78<sup>t</sup> annual meeting of the American Association of Physical Anthropologists.*
- Spence, J., and **Guatelli-Steinberg, D.** 2009. Permanent tooth emergence among the Gullah of St. James Island (Outer Banks, South Carolina). AJPA Supplement 48: 244. *Poster presented (by J. Spence) at the 78<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Weston, T.C., **Guatelli-Steinberg, D.**, Hunter, J.P., and Betsinger, T.K. 2009. Tooth development models predict Carabelli cusp variation: interaction effects and epigenetic mechanisms. AJPA Supplement 48: 270-271. *Poster presented (by T. Weston) at the 78<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Guatelli-Steinberg, D.**, Ferrell, R.J., Hubbard, A., Schmidt, S., and Talabere, T. 2008. Sexual dimorphism in lateral enamel formation in *Cercocebus* and *Papio*: Time vs. rate. AJPA, Supplement 46: 109. *Poster presented (by D. Guatelli-Steinberg) at the 77<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Hubbard, A. and **Guatelli-Steinberg, D.**2008. Assessing the duration of physiological stress episodes represented by linear enamel hypoplasias: Implications for health. AJPA, Supplement 46: 121. *Paper presented (by A. Hubbard) at the 77<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Ulvi, O.S., McGraw, W.S., **Guatelli-Steinberg, D.** 2008. Anterior alveolar process curvature and diet in two West African colobine species. AJPA, Supplement 46: 212. *Poster presented (by O. Ulvi) at the 77<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*

- Guatelli-Steinberg, D.**, and Reid, D.J. 2007. Buccal lateral enamel formation in Neandertal molars in comparison to two modern human population samples. *AJPA, Supplement 44: 121. Paper presented (by D. Guatelli-Steinberg) at the 76<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Smith, T.M., Olejniczak, A.J., Reid, D.J., **Guatelli-Steinberg, D.**, Hoffmann, A., Hublin, J.-J. 2007. Le Moustier 1 dental development and enamel thickness. *Poster presented (by T.M. Smith) at the International Congress of Vertebrate Morphology.*
- Hubbard, A., **Guatelli-Steinberg, D.**, and Sciulli, S. 2007. Assessing stress duration by means of linear enamel hypoplasias: a methodological comparison. *AJPA, Supplement 44: 132. Poster presented at the 76<sup>th</sup> annual meeting of the Am. Association of Physical Anthropologists.*
- Martin, S., **Guatelli-Steinberg, D.**, Sciulli, S, and Walker P. 2007. Evaluation of methods for estimating chronological age at linear enamel hypoplasia formation. *AJPA, Supplement 44: 165. Poster presented (by S. Martin) at the 76<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Chambers, E., McKee, J., **Guatelli-Steinberg, D.**, and Krigbaum, J. 2007. Oxygen isotope analysis of human tooth enamel carbonate: Implications for climatological and environmental research. *AJPA, Supplement 44: 85-86. Poster presented (by E. Chambers) at the 76<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Reid, D.J., **Guatelli-Steinberg, D.**, Walton, P. 2006. Variation in modern human premolar enamel formation time: Implications for Neandertals. *Paper presented (by D.J. Reid) at Dental Histology Conference, Max Planck Institute for Evolutionary Anthropology; Leipzig, Germany.*
- Guatelli-Steinberg, D.**, and Reid, D.J. 2006. Imbricational enamel growth in the Point Hope Inuit: Comparisons and contrasts with other modern human populations (Southern Africa and Newcastle, England.) *AJPA, Supplement 42:97. Paper presented at the 75<sup>th</sup> annual meeting of the American Association of Physical Anthropologists.*
- Newell, E.A., **Guatelli-Steinberg, D.**, Field., M., Cooke, C., Feeney, R. 2005. Linear enamel hypoplasia in the Ceboidea. *Paper presented (by E. Newell) at International Physical Anthropology "Juan Comas" Colloquium. Campeche, Mexico.*
- Guatelli-Steinberg, D.**, Reid, D.J., Bishop, T., and Larsen, C.S. 2005. Perikymata counts and imbricational enamel formation times in Neandertals and recent modern humans. *Invited presentation (presented by D. Guatelli-Steinberg). Dental Paleoanthropology conference at the Max Planck Institute for Evolutionary Anthropology; Leipzig, Germany.*
- Guatelli-Steinberg, D.** 2005. Using perikymata to estimate the duration of growth disruptions in fossil hominin teeth. *AJPA, Supplement 40: 109-110. Paper presented at the 74<sup>th</sup> meeting of the American Association of Physical Anthropologists.*
- Guatelli-Steinberg, D.**, Sciulli, P., and Edgar, H. 2004. Asymmetry of three deciduous teeth and their replacements in the Gullah. *AJPA, Supplement 38:204. Poster presented (by D. Guatelli-Steinberg) at the 73<sup>rd</sup> meeting of the American Association of Physical Anthropologists.*

- Guatelli-Steinberg, D.** 2003. Assessment of linear enamel hypoplasia (LEH) in early hominins. *AJPA*, Supplement 36: 105. *Paper presented at the 72<sup>nd</sup> meeting of the American Association of Physical Anthropologists.*
- Irish, J.D. and **Guatelli-Steinberg, D.** 2003. Additional dental evidence for an African origin of modern humans. *AJPA*, Supplement 36: 121. *Poster presented (by J.D.Irish and D. Guatelli-Steinberg) at the 72<sup>nd</sup> meeting of the American Association of Physical Anthropologists.*
- Guatelli-Steinberg, D.** and Mitchell, J. 2002. Comparison of impression materials used on fossil teeth. *AJPA*, Supplement 34: 78-79. *Poster presented (by D. Guatelli-Steinberg) at the 71<sup>st</sup> meeting of the American Association of Physical Anthropologists.*
- Newell, E. and **Guatelli-Steinberg, D.** 2002. Distribution of linear enamel hypoplasia in the Ceboidea. *AJPA*, Supplement 34: 118. *Poster presented (by E.Newell) at the 71<sup>st</sup> meeting of the American Association of Physical Anthropologists.*
- Guatelli-Steinberg, D.** and Dirks, W. 2001. The timing of hypoplastic defects in gibbons. *AJPA*, Supplement 32: 73-74. *Poster presented (by D. Guatelli-Steinberg and W. Dirks) at the 70<sup>th</sup> meeting of the American Association of Physical Anthropologists.*
- Guatelli-Steinberg, D.** and Newell, E.A. 2000. Interpreting sex differences in enamel hypoplasia in non-human primates. *AJPA*, Supplement 30:168. *Poster presented (by D. Guatelli-Steinberg) at the 69<sup>th</sup> meeting of the American Association of Physical Anthropologists.*
- Guatelli-Steinberg, D.** 1999. LEH in gibbons and other Old World anthropoids: A graded taxonomic pattern in the expression of linear enamel hypoplasia. *AJPA*, Supplement 28:141. *Poster presented at the 68<sup>th</sup> meeting of the American Association of Physical Anthropologists.*
- Guatelli-Steinberg, D.** 1998. Linear enamel hypoplasia and life history in Cayo Santiago rhesus monkeys. *AJPA*, Supplement 26:89. *Paper presented at the 67<sup>th</sup> meeting of the American Association of Physical Anthropologists.*
- Guatelli-Steinberg, D.**, Irish, J., and Lukacs, J. 1997. Canary Island-North African population affinities: Measures of divergence based on dental morphology. *AJPA*, Supplement 24:121. *Paper presented (by D. Guatelli-Steinberg) at the 67<sup>th</sup> meeting of the American Association of Physical Anthropologists.*
- Skinner, M. and **Guatelli-Steinberg, D.** 1997. Distribution of linear enamel hypoplasia in sympatric monkeys and apes. *AJPA*, Supplement 24:213. *Poster presented (by D. Guatelli-Steinberg) at the 66<sup>th</sup> meeting of the American Association of Physical Anthropologists.*
- Lukacs, J.R. and **Guatelli-Steinberg, D.** 1994. Daughter neglect in India: LEH prevalence and the question of female biological superiority. *AJPA*, Supplement 18:132. *Paper presented (by J.R. Lukacs) at the 63<sup>rd</sup> meeting of the American Association of Physical Anthropologists.*

#### OTHER INVITED LECTURES

- Guatelli-Steinberg, D.** 2023. The past and present of enamel formation and dental development. Department of Anthropology Colloquium Series, University of Kentucky.

- Guatelli-Steinberg, D.** 2023. Molar form and hard object feeding in African monkeys. Biology and Earth Sciences Seminar Series, Otterbein University.
- Guatelli-Steinberg, D.** 2023. Molar form and hard object feeding in African monkeys. Tooth Talks Online Speaker Series.
- Guatelli-Steinberg, D.** 2017. Fossil teeth and Neanderthal biology. College of Dentistry, The Ohio State University.
- Guatelli-Steinberg, D.** 2016. Dental insights into Neanderthal biology. Baylor College of Dentistry, Texas A & M, Pathways to Excellence Series.
- Guatelli-Steinberg, D.** 2015. Growth and growth disruption in hominin teeth: What can we learn? Institute of Paleontology and Paleoanthropology, Beijing.
- Guatelli-Steinberg, D.** 2015. Dental insights into Neanderthal biology. Department of Integrative Biology, University of California Berkeley.
- Guatelli-Steinberg, D.** 2013. In the teeth of the Neanderthal debate. Department of Anthropology, University of New Mexico.
- Guatelli-Steinberg, D.** 2013. Histological features of dental hard tissues and their utility in forensic anthropology. Department of Anatomy and Neurobiology, Boston University Medical School.
- Guatelli-Steinberg, D.** 2010. Insights into human and non-human primate evolution from the growth of teeth. Department of Anthropology, New York University.
- Guatelli-Steinberg, D.** 2009. Evolution and variation of tooth mineralization in humans and primates. Plenary talk given at symposium entitled *Development, Diseases and Evolution of Mineralized Tissues* as part of the Genetics and Evolution of the Skeleton Research Initiative of U.C. Berkeley and U.C. San Francisco, California.
- Guatelli-Steinberg, D.** 2009. Life history and fossil teeth: from Australopithecines to Neandertals. Department of Anthropology, Ohio University.
- Guatelli-Steinberg, D.** 2006. Insights into Neandertals from the growth of their teeth. Department of Anthropology, Santa Clara University.
- Guatelli-Steinberg, D.** 2006. Neandertal dental growth --- Implications for extended growth periods. Department of Geology Lecture Series, Ohio State University
- Guatelli-Steinberg, D.** 2005. Insights into Neandertals from the growth of their teeth. Departments of Statistics and Biostatistics Lecture Series, Ohio State University

## ADDITIONAL SERVICE TO DISCIPLINE

**External Reviewer**, Department of Anthropology, Queens College. 2025.

**Podium Session Chair**. Chaired Hominin Paleoanthropology Session at the 87th Meeting of the American Association of Physical Anthropologists. 2018.

**Symposium Co-Chair** (with Tanya Smith, Chair). Developmental Variation of the Primate Dentition. 80<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists. 2011.

**Local Arrangements Committee**: 77<sup>th</sup> Meeting, American Association of Physical Anthropologists. 2008.

**Poster Session Chair**: Chaired Dental Anthropology Session at the 77<sup>th</sup> Meeting of the American Association of Physical Anthropologists. 2008.

**Scientific Program Committee Member**: 74<sup>th</sup> and 75<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists Reviewed abstracts. 2004-2006.

**Symposium Co-organizer** (Charles Hilton, Organizer). *Bioarchaeology of Point Hope, Alaska*. 75<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists. 2006.

**Podium Session Chair**. Chaired Dental Anthropology Session at the 73<sup>rd</sup> Meeting of the American Association of Physical Anthropologists. 2004.

**Podium Session Chair**. Chaired Dental Anthropology Session at the 72<sup>nd</sup> Meeting of the American Association of Physical Anthropologists. 2003.

**Symposium Chair**: *Patterns of Physiological Stress in Primates: The Dental Evidence*. 69<sup>th</sup> meeting of the American Association of Physical Anthropologists. 2000.

### Journal and Text Peer Reviewer since 2000:

*American Anthropologist*  
*American Journal of Human Biology*  
*American Journal of Physical Anthropology*  
*American Journal of Primatology*  
*Anatomical Record*  
*Archives of Oral Biology*  
*Biology of Sex Differences*  
*Collegium Anthropologicum*  
*Current Anthropology*  
*Dental Anthropology*  
*Dental Perspectives on Human Evolution (Edited Volume)*  
*Evolutionary Anthropology*  
*Folia Primatologica*  
*Human Biology*  
*International Journal of Osteoarchaeology*  
*International Journal of Paleopathology*

*International Journal of Primatology*  
*14<sup>th</sup> International Symposium on Dental Morphology Proceedings*  
*Journal of Anatomy*  
*Journal of Archaeological Science*  
*Journal of Anthropological Science*  
*Journal of Dentistry*  
*Journal of Human Evolution*  
*Lewin and Foley's text: Principles of Human Evolution*  
*Microscopy and Techniques*  
*Nature*  
*PLoS One*  
*Proceedings of the National Academy of Science*  
*Proceedings of the Royal Society B: Biological Sciences*  
*Science*  
*South African Journal of Science*

**Proposal Reviewer since 2000:**

*National Science Foundation*  
*National Geographic Society*  
*Leakey Foundation*  
*North Dakota EPSCoR.*

**UNIVERSITY TEACHING AND ADVISING**

**Anthropology Department., The Ohio State University. 2004-Present**

- One post-doctoral student in Ohio State's Presidential Postdoctoral Scholar's Program
- Graduate students: Ten completed Ph.D's, Three completed M.A.'s.
- Undergraduate Honors and/or Thesis Advisor
- Honors Adviser: Adviser to students in the Anthropology Honors Program, 2004-2005.
- Anthropology 200 Coordinator: Coordinating team of 12 graduate teaching associates teaching the introductory undergraduate physical anthropology course; giving presentations on teaching strategies; implementing peer evaluation program; reviewing curriculum, designing and performing course assessment. 2004-2009.
- Courses teaching/taught: Designing lecture and laboratory curricula; class sizes from 6-70

***Writing Research Proposals in Anthropology:*** Graduate level course

***Teaching in Anthropology:*** Graduate level course

***Evolutionary Theory:*** Graduate level course

***Communicating Anthropology:*** Graduate Level course

***Primate Sexuality:*** Upper division course

***Dental Anthropology: Evolutionary Anthropology of the Dentition.*** Upper division/graduate

***Race, Ethnicity, Gender Diversity and Human Biology.*** Lower division undergraduate

***Introduction to Physical Anthropology Honors***: Lower division undergraduate course  
***Human Origins***: Upper division undergraduate course  
***Independent Study***: Supervising Undergraduate, MA, Ph.D. students research projects

**Anthropology Department, The Ohio State University, Newark, 2000 to 2004.**

- Courses taught: Designed lecture and laboratory curricula; class sizes from 8-70:

***Interdisciplinary Perspectives on Sex Differences and Sexuality***: Upper division honors seminar funded by Columbus Honors and Scholars Program Grant.

***Human Origins***: Upper division undergraduate course

***Introduction to Physical Anthropology***: Lower division undergraduate course

***Introduction to Cultural Anthropology***: Lower division undergraduate course

***World Prehistory***: Lower division undergraduate course

***Evolutionary Perspectives on Sexuality***: Arts and sciences honors seminar.

***Independent Study***: Supervised Undergraduate, MA, Ph.D. students research projects

**Visiting Assistant Professor, Anthropology Dept., University of Oregon, 1999-2000.**

- Courses taught: Designed lecture and laboratory curricula  
***Evolution of Human Sexuality***: Lower division undergraduate lecture course of 300 students.  
***Human Evolution***: Upper division undergraduate lecture course of 75 students.  
***Supervised Research***: Supervised graduate student's research on enamel hypoplasia.  
 Supervised team of graduates/undergraduates conducting sexuality study.  
***Supervised College Teaching***: Coordinated seven graduate teaching fellows as instructors.  
***Biological and Cultural Analyses of Warfare and Organized Violence***: Co-taught upper division/graduate biocultural seminar.  
***Introduction to Human Evolution***: Lower division undergraduate lecture course of 200

**Academic Adviser, Department of Academic Advising and Student Services, University of Oregon, 1999 – 2000.**

Advised pre-medical and undeclared students, wrote and edited program literature, analyzed advising data, organized academic orientation programs.

**Theodore Stern Fellow, Department of Anthropology, University of Oregon, 1997. Course:**

***Primate Sociobiology***: Created and taught course: lectures and discussion.

**Graduate Teaching Fellow, Department of Anthropology, University of Oregon, 1995-1997.**

***Primate Behavior, Monkeys and Apes, Human Evolution, and Evolution of Human Sexuality***. Designed labs, coordinated class projects, taught lab sections, conducted review sessions. Guest lecturer on a variety of topics.

**Graduate Teaching Fellow, General Science Program, University of Oregon, 1993-1998.**

Advising General Science majors, coordinating peer advisors, designing and implementing honors program, evaluating major requirements, writing and editing program literature.

**Teaching Assistant**, Department of Anthropology, University of California, Davis, 1985-1986.

***Physical Anthropology*** (3 terms): Taught lab sections, gave guest lectures on human evolution, wrote and graded examinations, designed lab activities.

## **SECONDARY SCHOOL TEACHING**

Instructor, Eugene School District, Eugene, OR, 1990-1999. Designed courses of study and tutored home-bound high school students in math, chemistry, and biology.

Public School Science Teacher, Central Linn School District, Halsey, OR, 1991-1992. Taught life and physical science; coordinated science fair.

Public High School Science Teacher, Washington Unified School District, West Sacramento, CA, 1987-1990. Taught honors biology, physical science, yearbook. Trained student teacher.

## **EARLY RESEARCH EXPERIENCE**

Research assistant to Dr. Meredith Small for study of female rhesus macaque sexual behavior. UC Davis, 1984-1985.

Research assistant to Dr. William Durham for cross-cultural incest taboo project. Stanford, 1982-83.

Research assistant investigating effects of intracellular calcium on red blood cell membrane protein linkage. Department of Hematology, UCSF Cancer Research Institute 1981 and 1982.

## **EXAMPLES OF UNIVERSITY AND COMMUNITY SERVICE**

### **The Ohio State University (Columbus and Newark) 2000-Present**

- Search Committee Chair: three searches
- Member, Diversity Committee, Department of Anthropology
- Origins and Evolution Theme Advisory Committee
- Natural Science General Education Assessment Committee
- Director of Undergraduate Studies, Department of Anthropology
- University Council on Academic Affairs
- University Arts and Sciences Faculty Advisory Committee
- University Investigation Committee
- University Arts and Sciences Senate Representative
- Chair, Department Promotion and Tenure Committee
- University Assessment Panel Chair: (Winter quarter, 2012)
- University Committee: Curriculum Committee (2010-2012)
- University Committee: Distinguished Teaching Award (2006-2009)
- Member, Promotion and Tenure Review Committee (2006-2008; 2009-2010)
- Representing Department at events: e.g., Maximus Academic Fair, Graduation
- Member, Committee on Graduate Teaching (2006-Present)
- Curator, Menegaz-Bock Dental Cast Collection (Present)

- Chair, Speakers Committee, Anthropology Department (2006-2007)
- Chair, Awards Committee, Anthropology Department (2004-2005) and (2012-2013)
- Member, Undergraduate Studies Committee (2004-Present)
- Anthropology Department and OSU-Newark faculty search committees
- Orientation Program for high-achieving students, Faculty Participant OSU-Newark 2003
- Serving as Graduate School Representative at Ph.D. Candidacy Exams
- Served on Teaching Load Task Force at OSU-Newark
- Gave research presentations to OSU-Newark faculty (Faculty Forum Series) 2002, 2003
- Gave "Fireside" Lectures to Honors Students at OSU-Newark
- Invited Newark Scholars Program, Faculty Participant 2000-2002
- Professional Standards Committee OSU-Newark 2000-2004
- Academic Affairs Committee OSU-Newark 2002-2004

### **The University of Oregon (and city of Eugene, Oregon) 1993-1999**

- Served on Veteran Graduate Teaching Fellow Panel
- Sole graduate student representative on President's Riverfront Research Park Committee
- Planned Parenthood Fundraiser
- Doping control official, Olympic trials

### **PAST AND/OR CURRENT MEMBERSHIPS**

American Association for the Advancement of Science  
 Sigma Xi, Full Member  
 Dental Anthropology Association  
 American Association of Physical Anthropologists  
 Academy of Teaching, Ohio State University