# Tanya M. Smith

Professor

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### **Current and Past Academic Positions**

- \* Professor, Griffith Centre for Social and Cultural Research & Australian Research Centre for Human Evolution, Griffith University, 2018-present.
- \* Associate Professor, Australian Research Centre for Human Evolution, Griffith University, 2016-2018.
- \* Associate/Visiting Scholar, Department of Human Evolutionary Biology, Harvard University, 2016-2018.
- \* Visiting Scholar, Museum of Vertebrate Zoology, University of California, Berkeley, 2015-2017.
- \* Fellow, Radcliffe Institute for Advanced Study, Harvard University, 2013-2014.
- \* Associate Professor, Department of Human Evolutionary Biology, Harvard University, 2012-2016.
- \* Associated Scientist, Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology (MPI-EVA), 2008-2013.
- \* Assistant Professor, Department of Human Evolutionary Biology, Harvard University, 2009-2012.
- \* Assistant Professor, Department of Anthropology, Harvard University, 2008-2009.
- \* Visiting Research Associate, Department of Anthropology, Brandeis University, 2007-2008.
- \* Research Scientist (Assistant Professor equivalent), Department of Human Evolution, MPI-EVA, 2006-2008.
- \* Postdoctoral Fellow, Department of Human Evolution, MPI-EVA, 2004-2005.

#### Education

- \* Stony Brook University, Interdepartmental Doctoral Program in Anthropological Sciences (IDPAS), 1998-2004: M.A., 2002; Ph.D. with Distinction, 2004.
- \* State University of New York (SUNY) at Geneseo, 1993-1997: B.S. in Biology with Honors, 1997.

# Postgraduate Professional Development Activities

- \* Dynamic Groups, Dynamic Learning Facilitation Training Program, 6-day workshop, 2024.
- \* National Excellence in School Leadership Institute Advanced Leadership Program, 6 months, 2018.
- \* Leadership Circle Profile Certification, 3-day workshop, 2016.
- \* University of Washington Train-the-Trainer (T3) Faculty Diversity Workshop, daylong event, 2015.
- \* Harvard Medical School Achieving Healthcare Leadership and Impact through Writing, Publishing and Social Media, 3-day event, 2015.
- \* American Association of Physical Anthropologists' Women's Mentoring Workshop, daylong event, 2014.
- \* Coaches Training Institute Co-Active Leadership Program, 10-month course with 4 retreats, 2013-2014.
- \* Awakening Truth Women's Facilitation Group, 3-month leadership program with 2 retreats, 2013.
- \* Harvard University Leadership Skills for Engineering and Science Faculty, 2-day workshop, 2011.
- \* University of Washington Women Evolving Biological Sciences (WEBS), 3-day retreat, 2010.
- \* Harvard University Public Speaking as a Performing Art, 3-day workshop, 2009.

# Fellowships and Grants in Excess of \$10,000

- \* Turkana Basin Institute Research Award (Lead CI Daniel Green, Columbia University), \$99,545 USD, Seasonal Water Use Across Miocene Apes and Hominins, 2022-2024.
- \* Australian Nuclear Science and Technology Organization (jointly award with Christine Austin, Mehar Bharatiya, Daryl Howard & Jillian Huntley) \$65,568 AUD (in-kind beamtime at the Australian Synchrotron), *Elevating Dental Remains as Proxies for Ancient Human Diet and Health with X-ray Fluorescence Microscopy*, 2022.
- \* Australian Research Council Linkage Infrastructure, Equipment and Facilities (LIEF) Award (Lead CI Penelope

- King, ANU), \$344,864 AUD, Integrated Volatile-Mineral-Isotope Micro-Analysis of Earth Environments, 2022-2024.
- \* Australian Research Council Future Fellowship, \$1,986,464 AUD, *Illuminating Behavioural and Environmental Influences on Human Development*, 2021-2025.
- \* Australian Research Council Discovery Project (jointly awarded with Ian Williams and Daniel Green), \$343,086 AUD, Constructing Robust Climate Proxies to Explore Human and Primate Evolution, 2021-2023.
- \* Australian Academy of Science Regional Collaborations Programme (jointly awarded with Ian Williams, Hallie Buckley, and Daniel Green), \$124,000 AUD, *Tracing Ancient Environments During the Peopling of Southeast Asia*, 2019-2020.
- \* Griffith Sciences Group Equipment Fund, \$30,000 AUD, Virtual Anthropology Laboratory, 2017.
- \* Wenner-Gren Foundation Dissertation Research Grant (jointly awarded for Daniel Green's thesis research), \$18,810 USD, Experimental Reconstruction of Seasonal Rainfall for Paleoclimate Research, 2014-2015.
- \* Wenner-Gren Foundation Hunt Postdoctoral Fellowship, \$40,000 USD, 2013-2014.
- \* Radcliffe Institute Fellowship, \$21,375 USD, 2013.
- \* NSF Doctoral Dissertation Improvement Grant (jointly awarded for Daniel Green's thesis research), \$33,555 USD, Experimental Determination of Tooth Mineralization Patterns in Ungulates for Application to Paleoseasonality Reconstruction, 2012-2014.
- \* NSF Physical Anthropology Grant (jointly awarded with Paul Tafforeau), \$221,912 USD, Resolving Pliocene and Pleistocene Hominin Ontogeny With Synchrotron Virtual Histology, 2011-2014.
- \* Radcliffe Exploratory Seminar Grant (jointly awarded with Arkhat Abzhanov), \$15,000 USD, *Interdisciplinary Perspectives on the Evolution and Development of the Vertebrate Head*, 2011-2012.
- \* Harvard University, William F. Milton Fund, \$39,710 USD, Evolution of Human Childhood, 2010.
- \* EU FP6 Marie Curie Actions (co-investigator), European Virtual Anthropology Network, €3,297,626, 2006-2009.
- \* NSF Dissertation Improvement Grant (jointly award with Lawrence Martin for my thesis research), \$12,000 USD, *Incremental Development of Primate Enamel*, 2002-2004.

### **Awards and Minor Grants**

- \* Griffith Centre for Social and Cultural Research Strategic Grant, 2024.
- \* Griffith University Vice Chancellor's Mid-Career Research Excellence Award, 2021.
- \* Queers in Science LGBTQIA+ STEMM Day Top Lightening Talk Award, 2021.
- \* Griffith University Arts, Education and Law Pro Vice Chancellor's Mid-Career Research Excellence Award, 2021.
- \* Australian Academy of Science inaugural STEM Women Changemaker Award, 2020.
- \* Environmental Futures Research Institute Strategic Leverage Fund, 2019.
- \* Ranked the Leading Anthropological Researcher in Australia by The Australian newspaper, 2018.
- \* National Excellence in School Leadership Institute's Advanced Leadership Program Scholarship, 2018.
- \* Harvard University, Clark Award, 2013.
- \* The Leakey Foundation General Grant (jointly awarded with Zarin Machanda), 2012-2013.
- \* Selected Participant for NSF-funded Women Evolving Biological Sciences (WEBS) Symposium, 2010.
- \* Harvard University, Publication Fund, 2008 & 2010.
- \* Stony Brook University President's Award for Distinguished Doctoral Students, 2005.
- \* Stony Brook University IDPAS Conference Travel Awards, 2002, 2003 & 2004.
- \* Stony Brook University IDPAS Research Travel Awards, 2001 & 2002.
- \* Primate Conservation, Inc. Research Grant (jointly awarded with Mitch Irwin), 1999.
- \* Margot Marsh Biodiversity Foundation Research Grant (jointly awarded with Mitch Irwin), 1999.
- \* Dean's List at SUNY Geneseo, Fall 1994-Spring 1997 (inclusive).
- \* SUNY Geneseo Foundation Scholarship, 1997.
- \* Second Place for Best Student Research at Tri-Beta Biological Honors Society Regional Convention, 1997.
- \* Tri-Beta Biological Honors Society Research Grant, 1996.
- \* SUNY Geneseo Foundation Research Grant, 1995.

#### **Books**

Smith, T.M. (2018) The Tales Teeth Tell: Development, Evolution, Behavior. MIT Press, Cambridge, MA, 296 pp.

### **Peer-Reviewed Publications**

- 87. **Smith, T.M.,** Ávila, J.N., Eerkens, J.W., Green, D.R., Hinde, K., Huerta, E., Tafforeau, P., Williams, I.S. (in review) Primate teeth are good proxies for understanding past water inputs and seasonality. Submitted to *Geochim. Cosmochim. Acta*
- 86. Malarchik, D., Eerkens, J.W., Canzonieri, C., Zimmer, M., **Smith, T.M.**, Austin, C., Cole, A. (in press) Examining heavy metal exposure at Asistencia de San Pedro y San Pablo during the Mission Period in Northern California. In (Eerkens, J.W., Panich, L., Canzonieri, Z., Zimmer, C. Eds). *Native Persistence at a California Mission Outpost: The Bioarchaeology and History of the Asistencia de San Pedro y San Pablo*. University of Florida Press.
- 85. **Smith, T.M.,** Arora., M., Bharatiya, M., Leonard, N., Jian-xin, Zhao., Austin, C. (in review) Brief communication: Trace element patterns in juvenile wild chimpanzees. *Am. J. Primatol*.
- 84. Green, D. **Smith, T.M.,** Olack, G., Williams, I., Tafforeau, P., Colman, A.S., Uno, K. (in review) How teeth record and attenuate seasonal signals. *J. Arch. Sci.* Preprint: http://ssrn.com/abstract=4522645
- 83. Chapple, S., **Smith, T.M.**, Skinner, M.M. (2024) Testing the patterning cascade model of cusp development in *Macaca fascicularis* mandibular molars. *Arch. Oral Biol.* 167: 106067.
- 82. Bharatiya, M., Austin, C.M., Arora, M., Feeney, R.N.M., Leonard, N.D., Low-Choy, S., Paul, B., Soficaru, A.D., Zhao, Jian-xin, **Smith, T.M.** (2024) Tracking childhood lead exposure in early industrial Romanians. *Chemosphere* 364: 142947.
- 81. **Smith, T.M.,** Ávila, J.N., Arora, M., Austin, C., Drake, T., Kinaston, R., Sudron, E., Wang, Y., Williams, I.S. (2024) Brief Communication: New method for measuring nitrogen isotopes in tooth dentine at high temporal resolution. *Am. J. Biol. Anthropol.* 185:e24991.
- 80. **Smith, T.M.,** Arora, M., Austin, C., Ávila, J.N., Duval, M., Lim, T.T., Piper, P.J., Vaiglova, P., de Vos, J., Williams, I.S., Zhao. J-x., Green, D.R. (2024) Oxygen isotopes in orangutan teeth reveal recent and ancient climate variation. *eLife* 12: RP90217.
- 79. Vaiglova, P., Ávila, J., Buckley, H., Galipaud, J.C., Green, D.R., Halcrow, S., James, H.F., Kinaston, R., Oxenham, M., Paz, V., Simanjukntak, T., Snoeck, C., Trinh, H.H., Williams, I.S., Smith, T.M. (2024) Past rainfall patterns in Southeast Asia revealed by microanalysis of δ<sup>18</sup>O values in human teeth. *J. Arch. Sci.* 162: 105922.
- 78. Austin, C., Kumar, P., Carter, E.A., Lee, J., **Smith, T.M.,** Hinde, K., Arora, M., Lay, P.A. (2023) Stress exposure histories revealed by biochemical changes along accentuated lines in teeth. *Chemosphere* 329: 138673.
- 77. **Smith, T.M.,** Arora., M., Bharatiya, M., Dirks, W., Austin, C. (2023) Brief communication: Elemental models of primate nursing and weaning revisited. *Am. J. Biol. Anthropol.* 180: 216-223.
- 76. Green, D.R., Ávila, J.N., Cote, S., Dirks, W., Lee, D., Poulson, C.J., Williams, I.S., **Smith, T.M.** (2022) Fine-scaled climate variation in equatorial Africa revealed by modern and fossil primate teeth. *Proc. Natl. Acad. Sci. USA* 119: e2123366119.
- 75. **Smith, T.M.**, Warinner, C. (2022) Developmental, evolutionary, and behavioral perspectives on oral health. In (K. Plomp, C. Roberts, S. Elton, G. Bentley, Eds.) *Palaeopathology and Evolutionary Medicine: An Integrated Approach*. Oxford University Press, Oxford, pp. 95-119.
- 74. **Smith, T.M.,** Austin, C., Avila, J.N., Dirks, W., Green, D.R., Williams, I.S., Arora., M (2022) Permanent signatures of birth and nursing initiation are chemically recorded in teeth. *J. Arch. Sci.* 140: 105564.
- 73. **Smith, T.M.**, Cook, L., Dirks, W., Green, D., Austin, C. (2021) Teeth reveal juvenile diet, health and neurotoxicant exposure retrospectively: What biological rhythms and chemical records tell us. *BioEssays*, e2000298.
- 72. Papakyrikos, A.P., Arora, M., Austin, C., Boughner, J.C., Capellini, T.D., Dingwall, H.L., Greba, Q., Howland, J.G., Kato, A., Wang, X-P., **Smith, T.M.** (2020) Biological clocks and incremental growth line formation in dentine. *J. Anat.* 237: 367–378.

- 71. Kelley, J., Schwartz, G.T., **Smith, T.M.** (2020) Age at first molar emergence in *Pan troglodytes verus* and variation in the timing of molar emergence among free-living chimpanzees. *J. Hum. Evol.* 145: 102823.
- 70. Gunz, P., Neubauer, S., Falk, D., Tafforeau, P., Le Cabec, A., **Smith, T.M.,** Kimbel, W.H., Spoor, F., Alemseged, Z. (2020) *Australopithecus afarensis* endocasts suggest ape-like brain organization and prolonged brain growth. *Sci. Adv.* 6: eaaz4729.
- 69. **Smith, T.M.** (2019\*) Dental histology. In (Richards, M., Britton, K., Eds.) *Archaeological Science*. Cambridge University Press, New York, pp. 170-197. \*Online publication date, print edition 2020.
- 68. **Smith, T.M.,** Tafforeau, P., Pouech, J., Begun, D. (2019) Enamel thickness and dental development in *Rudapithecus hungaricus*. *J. Hum. Evol*. 136:102649.
- 67. MacLatchy, L., Rossie, J., Houssaye, A., Olejniczak, A.J., **Smith, T.M.** (2019) New hominoid fossils from Moroto II, Uganda and their bearing on the taxonomic and adaptive status of *Morotopithecus bishop. J. Hum. Evol.* 132: 227-246.
- 66. Smith, T.M., Houssaye, A., Kullmer, O., Le Cabec, A., Olejniczak, A.J., Schrenk, F., Vos. J. de, Tafforeau, P. (2018) Disentangling isolated dental remains of Asian Pleistocene hominins and pongines. *PLoS ONE* 13: e0204737.
- 65. **Smith, T.M.**,\* Austin, C.\*, Green, D.R.\*, Joannes-Boyau, R.\*, Bailey, S., Dumitriu, D., Fallon, S., Grün, R., James, H.F., Moncel, M-H., Williams, I.S., Wood, R., Arora, M. (2018) Wintertime stress, nursing, and lead exposure in Neanderthal children. *Sci. Adv.* 4: eaau9483. \* These authors contributed equally to this work.
- 64. Green, D.R., **Smith, T.M.,** Green, G.M., Bidlack, F.B., Tafforeau, P., Colman, A.S. (2018) Quantitative reconstruction of seasonality from stable isotopes in teeth. *Geochim. Cosmochim. Acta* 235:482-504.
- 63. Green, D.R., Green, G.M., Colman, A.S., Bidlack, F.B., Tafforeau, P., **Smith, T.M.** (2017) Synchrotron imaging and Markov Chain Monte Carlo reveal tooth mineralization patterns. *PLoS ONE* 12(10):e0186391.
- 62. Westaway, K.E., Louys, J., Due Awe, R., Morwood, M.J., Price, G.J., Zhao, J.-x., Aubert, M., Joannes-Boyau, R., Smith, T.M., Skinner, M.M., Compton, T., Bailey, R.M., van den Bergh, G.D., de Vos, J., Pike, A.W.G, Stringer, C., Saptomo, E.W., Rizal, Y., Zaim, J., Santoso, W.D., Trihascaryo, A., Kinsley, L., Sulistyanto, B. (2017) An early modern human presence in Sumatra 73,000–63,000 years ago. *Nature* 548:322-325.
- 61. **Smith, T.M.,** Austin, C., Hinde, K., Vogel, E.R., Arora, M. (2017) Cyclical nursing patterns in wild orangutans. *Sci. Adv.* 3: e1601517
- 60. Smith, T.M. (2016) Dental development in living and fossil orangutans. J. Hum. Evol. 94:92-105.
- 59. Austin, C.\*, **Smith, T.M.**\*, Farahani, R.M.Z.\*, Hinde, K., Carter, E.A., Lee, J., Lay, P.A., Kennedy, B.J., Sarrafpour, B., Wright, R.J., Wright, R.O., Arora, M. (2016) Uncovering system-specific stress signatures in primate teeth with multimodal imaging. *Sci. Rep.* 6, 18802; doi: 10.1038/srep18802 \* These authors contributed equally to this work.
- 58. Raynal, J.P., Sbihi-Alaoui, F-Z., Mohib, A., El Graoui, M., Lefèvre, D., Texier, J-P., Geraads, D., **Smith, T.,** Tafforeau, P., Zouak, M., Grün, R., Rhodes, E.J., Eggins, S., Daujeard, C., Fernandes, P., Gallotti, R., Hossini, S., Schwarcz, H.P., Queffelec, A., Hublin, J-J. (2015) Nouveaux restes dentaires humains dans la Grotte à Hominidés de la carrière Thomas I à Casablanca (Maroc): contexte et datation directe par ablation laser ICP-MS. In (Akerraz, A., Ettahiri, A.S., Alaoui, M.K., Eds.) *Hommage à Joudia Hassar-Benslimane*. Institut national des sciences de l'archéologie et du patrimoine, Rabat, pp. 59-71.
- 57. **Smith, T.M.,** Boesch, C. (2015) Developmental defects in the teeth of three wild chimpanzees from the Taï forest. *Am. J. Phys. Anthropol.* 157:556–570.
- 56. Machanda, Z., Brazeau, N.F., Bernard, A.B., Donovan, R.M., Papakyrikos, A.M., Wrangham, R., **Smith, T.M.** (2015) Dental eruption in East African wild chimpanzees. *J. Hum. Evol.* 82:137-144.

- 55. **Smith, T.M.\***, Tafforeau, P.\*, Le Cabec, A., Bonnin, A., Houssaye, A., Pouech, J., Moggi-Cecchi, J., Manthi, F., Ward, C., Makaremi, M., Menter, C.G. (2015) Dental ontogeny in Pliocene and early Pleistocene hominins. *PLoS ONE* 10(2): e0118118.\* These authors contributed equally to this work.
- 54. Kato, A., Tang, N., Borries C., Papakyrikos, A., Hinde, K., Miller, E., Kunimatsu, Y., Hirasaki, E., Shimizu, D., **Smith, T.M.** (2014) Intra- and interspecific variation in macaque molar enamel thickness. *Am. J. Phys. Anthropol.* 155:447–459.
- 53. Guatelli-Steinberg, D., Stinespring-Harris, A., Reid, D.J., Larsen, C.S., Hutchinson, D.L., **Smith, T.M.** (2014) Chronology of linear enamel hypoplasia formation in the Krapina Neanderthals. *PaleoAnthropol.* 2014:431–445.
- 52. Carter, K., Worthington, S., **Smith, T.M.** (2014) News and views: Non-metric dental traits and hominin phylogeny. *J. Hum. Evol.* 69:123-128.
- 51. Smith, T.M. (2013) Teeth and human life-history evolution. Annu. Rev. Anthropol. 42:191-208.
- 50. Austin, C.\*, **Smith, T.M.\***, Bradman, A., Hinde, K., Joannes-Boyau, R., Bishop, D., Hare, D.J., Doble, P., Eskenazi, B., Arora, M. (2013) Barium distributions in teeth reveal early life dietary transitions in primates. *Nature* 498:216-219. \* These authors contributed equally to this work.
- 49. **Smith, T.M.,** Alemseged, Z. (2013) Reconstructing hominin life history. *Nature Education* 4:2. http://www.nature.com/scitable/knowledge/library/reconstructing-hominin-life-history-96635644
- 48. **Smith, T.M.,** Machanda, Z., Bernard, A.B., Donovan, R.M., Papakyrikos, A.M., Muller, M.N., Wrangham, R. (2013) First molar eruption, weaning, and life history in living wild chimpanzees. *Proc. Natl. Acad. Sci. USA* 110:2787-2791.
- 47. **Smith, T.M.,** Olejniczak, A.J., Zermeno, J.P., Tafforeau, P., Skinner, M.M., Hoffmann, A., Radovčić, J., Toussaint, M., Kruszynski, R., Menter, C., Moggi-Cecchi, J., Glasmacher, U.A., Kullmer, O., Schrenk, F., Stringer, C., Hublin, J-J. (2012) Variation in enamel thickness within the genus *Homo. J. Hum. Evol.* 62:395-411.
- 46. Tafforeau, P., Zermeno, J.P., **Smith, T.M.** (2012) Tracking cellular-level enamel growth and structure in 4D with synchrotron imaging. *J. Hum. Evol.* 62:424-428.
- 45. **Smith, T.M.,** Kupczik, K., Machanda, Z., Skinner, M.M., Zermeno JP. (2012) Enamel thickness in Bornean and Sumatran orangutan dentitions. *Am. J. Phys. Anthropol.* 147:417-426.
- 44. Hublin J.J., Bailey S., Olejniczak A., **Smith T.**, Verna C., Sbihi-Alaoui F.Z., Zouak M. (2012) Dental evidence from the Aterian human populations of Morocco. In (Hublin, J-J., McPherron, S., Eds.) *Modern Origins: A North African Perspective*. Springer, Dordrecht, pp. 189-204.
- 43. Raynal, J.P., Sbihi-Alaoui, F-Z., Mohib, A., El Graoui, M., Lefèvre, D., Texier, J-P., Geraads, D., Hublin, J-J. Smith, T., Tafforeau, P., Zouak, M., Grün, R., Rhodes, E.J., Eggins, S., Daujeard, C., Fernandes, P., Gallotti, R., Hossini, S. Schwarcz, H.P., Queffelec, A. (2011) Contextes et âge des nouveaux restes dentaires humains du Pléistocène moyen de la carrière Thomas I à Casablanca (Maroc). *Bull. Soc. Préhist. Française*. 108:645-669.
- 42. **Smith, T.M.,** Bacon, A-M., Demeter, F., Kullmer, O., Nguyen, K.T., Vos, J. de, Wei, W., Zermeno, J.P., Zhao, L. (2011) Dental tissue proportions in fossil orangutans from mainland Asia and Indonesia. *Hum. Origins Res.* 1:e1. (doi: 10.4081/hor.2011.e1)
- 41. **Smith, T.M.**, Reid, D.J., Olejniczak, A.J., Bailey, S., Glantz, M., Viola, B., Hublin, J.-J. (2011) Dental development and age at death of a Middle Paleolithic juvenile hominin from Obi-Rakhmat Grotto, Uzbekistan. In (Condemi, S., Weniger, G.-C., Eds.) *Continuity and Discontinuity in the Peopling of Europe: One Hundred Fifty Years of Neanderthal Study*. Springer, Dordrecht, pp. 155-163.
- 40. **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., Masrour, M., Toussaint, M., Stringer, C., Hublin, J-J. (2010) Dental evidence for ontogenetic differences between modern humans and Neanderthals. *Proc. Natl. Acad. Sci. USA* 107:20923-20928.

- 39. Feeney, R.N.M., Zermeno, J.P., Reid, D.J., Nakashima, S., Sano, H., Bahar, A., Hublin, J.J., **Smith, T.M.** (2010) Enamel thickness in Asian human canines and premolars. *Anthropol. Sci.* 118:191-198.
- 38. Lee, J.J-W., Morris, D., Constantino, P.J., Lucas, P.W., **Smith, T.M.**, Lawn, B.R. (2010) Properties of tooth enamel in great apes. *Acta Biomaterialia* 6:4560-4565.
- 37. Raynal, J.P., Sbihi-Alaoui, F-Z., Mohib, A., El Graoui, M., Lefèvre, D., Texier, J-P., Geraads, D., Hublin, J-J. Smith, T., Tafforeau, P., Zouak, M., Grün, R., Rhodes, E.J., Eggins, S., Daujeard, C., Fernandes, P., Gallotti, R., Hossini, S., Queffelec, A. (2010) Hominid Cave at Thomas Quarry I (Casablanca, Morocco): Recent findings and their context. *Quatern. Int.* 223-224:369-382.
- 36. **Smith, T.M.,** Smith, B.H., Reid, D.J., Siedel, H., Vigilant, L., Hublin, J.J., Boesch, C. (2010) Dental development of the Täi Forest chimpanzees revisited. *J. Hum. Evol.* 58:363-373.
- 35. Skinner, M.M., Evans, A., **Smith, T.**, Jernvall, J., Tafforeau, P., Kupczik, K., Olejniczak, A.J., Rosas A., Radovčić, J., Thackeray, J.F., Toussaint, M., Hublin, J-J. (2010) Brief Communication: Contributions of enamel-dentine junction shape and enamel deposition to primate molar crown complexity. *Am. J. Phys. Anthropol.* 142:157-163.
- 34. **Smith, T.M.**, Reid, D.J. (2009) Temporal nature of periradicular bands ("striae periradicales") on mammalian tooth roots. In (Koppe, T., Meyer, G., Alt, K.W., Eds.) *Comparative Dental Morphology*. Karger, Basel, pp. 86-92.
- 33. Nielsen-Marsh, C.M., Stegemann, C., Hoffmann, R., **Smith, T.,** Feeney, R., Toussaint, M., Harvati, K., Panagopoulou, E., Hublin, J-J., Richards, M.P. (2009) Extraction and sequencing of human and Neanderthal mature enamel proteins using MALDI-TOF/TOF MS. *J. Arch. Sci.* 36:1758-1763.
- 32. Richards, M., Grimes, V., Smith, C., **Smith, T.**, Harvati, K., Hublin, J.-J., Karkanas, P., Panagopoulou, E. (2009) Response to Nowell and Horstwood (2009) *J. Arch. Sci.* 36:1657-1658.
- 31. **Smith, T.M.**, Olejniczak, A.J., Kupczik, K., Lazzari, V., Vos, J., Kullmer, O., Schrenk, F., Hublin, J.-J., Jacob, T., Tafforeau, P. (2009) Taxonomic assessment of the Trinil molars using non-destructive 3D structural and developmental analysis. *PaleoAnthropol*. 2009:117-129.
- 30. **Smith, T.M.**, Harvati, K., Olejniczak, A.J., Reid, D.J., Hublin, J.-J., Panagopoulou, E. (2009) Brief Communication: Dental development and enamel thickness in the Lakonis Neanderthal molar. *Am. J. Phys. Anthropol.* 138:112-118.
- 29. **Smith, T.M.**, Tafforeau, P. (2008) New visions of dental tissue research: tooth development, chemistry, and structure. *Evol. Anthropol.* 17:213-226. (Featured as journal cover.)
- 28. Hublin, J.-J., Pääbo, S., Derevianko, A.P., Doronichev, V.B., Golovanova, L.V., Friess, M., Froment, A., Hoffmann, A., Kachache, N.E.J., Kullmer, O., Lordkipanidze, D., Moncel, M.-H., Potts, R., Radovcic, J., Rak, Y.Z., Richards, M., Méndez, J.R., Rosas, A., Schmauder, M., Schmitz, R.W., Semal, P., Smith, T., Tafuri, M.A., Tattersall, I., Tournepiche, J.-F., Toussaint, M., Vassiliev, S., Vialet, A., White, T., Ziegler, R. (2008). Suggested guidelines for invasive sampling of hominid remains. *J. Hum. Evol.* 55:756-757.
- 27. Olejniczak, A.J., **Smith, T.M.**, Skinner, M.M., Grine, F.E., Feeney, R.N.M., Thackeray, F.J., Hublin, J.-J. (2008) Three-dimensional molar enamel distribution and thickness in *Australopithecus* and *Paranthropus. Biol. Lett.* 4:406-410.
- 26. Olejniczak, A.J., **Smith, T.M.**, Feeney, R.N.M., Macchiarelli, R., Mazurier, A., Bondioli, L., Rosas, A., Fortea, J., de la Rasilla, M., García-Tabernero, A., Radovčić, J., Skinner, M.M., Toussaint, M., Hublin, J.-J. (2008) Dental tissue proportions and enamel thickness in Neandertal and modern human molars. *J. Hum. Evol.* 55:12-23.
- 25. **Smith, T.M.**, Olejniczak, A.J., Reh, S., Reid, D.J., Hublin, J.-J. (2008) Brief Communication: Enamel thickness trends in the dental arcade of humans and chimpanzees. *Am. J. Phys. Anthropol.* 136:237-241.
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## Additional Contributions to Edited Works and Scholarly Reports

- \* Smith, T.M. (2023) Q & A. In (Almécija, S.) Humans: Reflections About Our Present, Past & Future from the World Experts. Columbia University Press, New York, pp. 275-277.
- \* Smith, T.M., Green, D.R. (2022) Revelations from 17-million-year-old ape teeth could lead to new insights on early human evolution. *The Conversation* (Australian Edition) August 22, 2022.
- \* **Smith**, **T.M.**, Austin, C. (2021) Teeth contain detailed records of lead contamination in humans and other primates. *The Conversation* (Australian Edition) March 18, 2021.
- \* Smith, T.M. (2021) Q & A. In (Timbrell, L., Ed.) *Conversations in Human Evolution: Volume 2.* Archaeopress Publishing, Oxford, pp. 65-70.
- \* Smith, T.M. (2020) Integrative and Comparative Biology Blog for Special Issue on Teeth, September 29, 2020.
- \* Smith, T.M. (2020) Academics Without Borders. Association for Women in Science (AWIS) Magazine. July 2020, p. 10-12.
- \* Smith, T.M., Gunz, P., Alemseged, Z., (2020) Baby steps: this ancient skull is helping us trace the path that led to modern childhood. *The Conversation* (Australian Edition) April 2, 2020.
- \* Smith, T.M. (2019) The birth certificate in your mouth. *The MIT Press Reader* September 2, 2019. Republished by *Salon* and *RealClear Science*.
- \* Smith, T.M. (2018) What teeth can tell about the lives and environments of ancient humans and Neanderthals. *The Conversation* (Australian Edition) November 1, 2018.
- \* Smith, T.M. (2017) The lengthy childhood of endangered orangutans is written in their teeth. *The Conversation* (Australian Edition) May 18, 2017.
- \* Smith, T.M., Tafforeau, P. (2017) Teeth record ancestors' lives. ESRF NEWS 75:19.
- \* Smith, T.M. (2015) Book Review: *Tooth Development in Human Evolution and Bioarchaeology* by Simon Hillson (2014). *Quarterly Rev. Biol.* 90:226-227.
- \* Smith, T.M., Reid, D.J., Olejniczak, A.J., Tafforeau, P., Hublin, J.-J., Toussaint, M. (2014) Dental development in and age at death of the Scladina 1-4A juvenile Neanderthal. In (Toussaint, M., Bonjean, D. Eds.) *The Scladina I-4A Juvenile Neandertal (Andenne, Belgium) Palaeoanthropology and Context.* Études et Recherches Archéologiques de l' Université de Liège, Liège. pp. 155-166.
- \* Smith, T.M., Guatelli-Steinberg, D. (2011) Developmental variation of the primate dentition: The 2011 AAPA symposium in honor of Don Reid. *Evol. Anthropol.* 20:161-163.
- \* Smith, T.M. (2011) Biological rhythms in teeth reveal developmental differences between modern humans and Neanderthals. *Symbols* (Peabody Museum) Spring 2011:12-15.

- \* Dental Morphology Topic Editor (2011) Wiley-Blackwell Encyclopedia of Human Evolution. Primary Editor: Bernard Wood.
- \* Smith, T.M., Tafforeau, P. (2010) Synchrotron reveals human children outpaced Neanderthals by slowing down. *ESRF Highlights* 2010:117-118.
- \* Contributor (2010) 3-D Tooth Atlas, versions 5 & 6, Brown and Herbranson Imaging.
- \* Smith, T.M. (2009) Book Review: *Technique and Application in Dental Anthropology*, J Irish & G Nelson, Eds. (2009). *Am. J. Phys. Anthropol.* 139:607-608.
- \* Guest Associate Editor (2008) Dental Tissues Special Issue of Journal of Human Evolution, vol. 54.
- \* Smith, T.M., Tafforeau, P. (2007) Phase-contrast X-ray imaging demonstrates earliest occurrence of the modern human growth and development pattern. *ESRF Highlights* 2007:115-117.

# Presentations at Professional Meetings (Published Abstracts Indicated)

- 150. **Smith, T.M.**, Ferrell, R.J., Reid, D.J. (in review) Variation and error in the assessment of dental long-period line timing: A cautionary tale. To be presented at the 94th Annual Meeting of the American Association of Biological Anthropologists, Baltimore, MD, March 9-12<sup>th</sup>, 2025.
- 149. Kato, A., Bharatiya, M., Hlusko, L.J., McGraw W.S., Swedell, L., **Smith, T.M.** (2024) Molar enamel thickness variation in baboons. Presented at the 38th Annual Conference of the Australasian Society for Human Biology, Online, November 25-27<sup>th</sup>, 2024.
- 148. Sudron, E., Ávila, J.N., Eerkens, J., Hinde, K., Wang, Y., Williams, I.S., **Smith, T.M.** (2024) Reconstructing nursing behaviour in captive macaques from tooth dentine. Presented at the 38th Annual Conference of the Australasian Society for Human Biology, Online, November 25-27<sup>th</sup>, 2024.
- 147. **Smith, T.M.** & Austin, C. (2024) The use and misuse of trace element patterns in hominin and honhuman primate teeth. Presented at the 14<sup>th</sup> Annual Meeting of the European Society for the Study of Human Evolution, Zagreb, Croatia, September 11-15<sup>th</sup>, 2024.
- 146. **Smith, T.M.,** Ávila, J.N., Arora, M., Austin, C., Sudron, E., Wang, Y., Williams, I.S. (2024) Testing isotopic and elemental approaches to documenting nursing behaviour in the teeth of living children. Presented at the 30<sup>th</sup> Annual Meeting of the European Association of Archaeologists, Rome, Italy, August 28-31<sup>th</sup>, 2024.
- 145. Ávila, J.N., Eerkens, J., Soficaru, A., Sołtysiak, A., Williams, I.S., **Smith, T.M.** (2024) High-resolution oxygen isotope analyses of human teeth reveal considerable intra- and inter-individual variation within and among geographic locations. Presented at the 30<sup>th</sup> Annual Meeting of the European Association of Archaeologists, Rome, Italy, August 28-31<sup>th</sup>, 2024.
- 144. **Smith, T.M.** (2024) Teeth are robust proxies for understanding past climates in Southeast Asia. Presented at the 5th SEAMEO SPAFA International Conference on Southeast Asian Archaeology, Fine Arts, and Cultural Heritage, Bangkok, Thailand, June 10-12<sup>th</sup>, 2024.
- 143. **Smith, T.M.,** Ávila, J.N., Sudron, E., Wang, Y., Williams, I.S. (2024) New protocol for measurement of nitrogen isotopes in dentine at high temporal resolution. Presented at the 93rd Annual Meeting of the American Association of Biological Anthropologists, Los Angeles, USA, March 20-23<sup>rd</sup>, 2024. (*Am. J. Biol. Anthropol.* Suppl. 77 183: 170-171)
- 142. Bharatiya, M., Ellis J., Austin, C., Arora, M., Green, D.R., Leonard, N.D., McGraw W.S., Paul, B., Swedell, L., Williams, I.S., Zhao, J.-x., **Smith, T.M.** (2024) Exploring the relationship between elemental fluctuations and seasonality in baboon teeth. Presented at the 93rd Annual Meeting of the American Association of Biological Anthropologists, March 20-23<sup>th</sup>, 2024. (*Am. J. Biol. Anthropol.* Suppl. 77 183: 17-18)
- 141. **Smith, T.M.,** Ávila, J.N., Eerkens, J.W., Green, D.R., Hinde, K., Huerta, E., Williams, I.S. (2024) Primate teeth as proxies for understanding water inputs and past seasonality. Presented at the annual Paleoanthropology Society Meetings, Los Angeles, USA, March 19-20<sup>th</sup>, 2024.

- 140. Williams, I.S., Ávila, J.N., Sudron, E., Wang, Y., **Smith, T.M.** (2023) New protocol for measurement of nitrogen isotopes in dentine at high temporal resolution. Presented at the 37th Annual Conference of the Australasian Society for Human Biology, Brisbane, Australia, December 11-13<sup>th</sup>, 2023.
- 139. Rolls, G., Buckley, H., Eerkens, J., Feeney, R.N.M., Kato, A., Kinaston, R., Oxenham, M., Soficaru, A., Sokolowski, K., Sołtysiak, A., **Smith, T.M.** (2023) Assessment of first molar enamel thickness in humans with different subsistence methods. Presented at the 37th Annual Conference of the Australasian Society for Human Biology, Brisbane, Australia, December 11-13<sup>th</sup>, 2023.
- 138. Bharatiya, M., Austin, C.M., Arora, M., Feeney, R.N.M., Leonard, N.D., Paul, B., Soficaru, A.D., Zhao, Jian-xin, **Smith, T.M.** (2023) Tracking childhood lead exposure in 20<sup>th</sup> century Romanians. Presented at the 37th Annual Conference of the Australasian Society for Human Biology, Brisbane, Australia, December 11-13<sup>th</sup>, 2023.
- 137. **Smith, T.M.,** Ávila, J.N., Green, D.R., Williams, I.S. (2023) Primate teeth are robust proxies for understanding climate change in the past. Presented at the 37th Annual Conference of the Australasian Society for Human Biology, Brisbane, Australia, December 11-13<sup>th</sup>, 2023.
- 136. Sudron, E., **Smith, T.M.** (2023) Stress, nitrogen balance and stable isotope analysis of dentine: a review of bioarchaeological applications. Presented at the 37th Annual Conference of the Australasian Society for Human Biology, Brisbane, Australia, December 11-13<sup>th</sup>, 2023. (Won third prize for best student presentation.)
- 135. Green D.R., Witzel, C., Colman A., Kierdorf, H., **Smith, T.M.,** Williams, I.S., Lewis, J.E., Boës, X., Uno, K.T. (2023) Hydrological seasonality bracketing the 3.3 Ma LOM3 archaeological site of Lomekwi, Kenya, via fossil hippopotamid oxygen isotope compositions and Bayesian inverse methods. Presented at the American Geophysical Union Meeting, San Francisco, CA, December 11-15<sup>th</sup>, 2023. (Invited Contribution)
- 134. **Smith, T.M.,** Arora., M., Bharatiya, M., Dirks, W., McGraw, S., Austin, C. (2023) Wild baboon early life diets: insights from trace elements in teeth. Presented at the 92<sup>st</sup> Annual Meeting of the American Association of Biological Anthropologists, Reno, NV, April 19-22nd, 2023. (*Am. J. Biol. Anthropol.* Suppl. 75 180: 166)
- 133. Green, D.R., Ávila, J.N., Cote, S., Dirks, W., Lee, D., Poulson, C.J., Williams, I.S., **Smith, T.M.** (2022) High-resolution climate variation in equatorial Africa revealed by modern and fossil primate teeth. Presented at the American Geophysical Union Fall Meeting, Chicago, IL, December 12-16th.
- 132. **Smith, T.M.** (2022) Inferring nursing histories from trace elements in teeth: promises and pitfalls. Presented at the 36<sup>th</sup> Annual Conference of the Australasian Society for Human Biology, Sydney December 12-14th, 2022.
- 131. **Smith, T.M.** (2022) Insights into human and nonhuman primate evolution from fine-scaled sampling of oxygen isotopes in tooth enamel. Presented at the 15<sup>th</sup> Australasian Environmental Isotope Conference, Ballina, NSW November 13-17<sup>th</sup>, 2022. (Invited Contribution)
- 130. **Smith, T.M.,** Ávila, J.N., Green, D.R., Vaiglova, P., Williams, I.S. (2022) Oxygen isotopes in orangutan teeth reveal ancient environmental variation. Presented at the 22<sup>nd</sup> Congress of the Indo-Pacific Prehistory Association, Chiang Mai, Thailand, November 7-12th, 2022.
- 129. **Smith, T.M.,** Arora, M., Austin, C., Ávila, J.N., Buckley, H., Green, D.R., Kinaston, R., Vaiglova, P., Williams, I.S. (2022) Early lives of ancient children from the Indo-Pacific revealed by tooth chemistry and development. Presented at the 22<sup>nd</sup> Congress of the Indo-Pacific Prehistory Association, Chiang Mai, Thailand, November 7-12th, 2022. (Invited Contribution)
- 128. **Smith, T.M.**, Ávila, J.N., Green, D.R., Williams, I.S. (2022) Fine-scaled oxygen isotope variation in tooth enamel: milk does not trump seasonality. Presented at the 91st Annual Meeting of the American Association of Biological Anthropologists, Denver, CO, March 23-26th, 2022. (*Am. J. Biol. Anthropol.* Suppl. 73 177: 171)
- 127. Green, D.R., Ávila, J.N., Dirks, W., Williams, I., **Smith, T.M.** (2022) Diverse monsoon seasonality in eastern Africa recorded by papionin tooth enamel  $\delta^{18}$ O. Presented at the 91<sup>st</sup> Annual Meeting of the American Association of Biological Anthropologists, Denver, CO, March 23-26th, 2022. (*Am. J. Biol. Anthropol.* Suppl. 73 177: 72)

- 126. **Smith, T.M.**, Austin, C., Ávila, J.N., Green, D.R., Arora, M. (2022) Developmentally-informed assessments of diagenesis in teeth. Presented at the Annual Meeting of the Paleoanthropology Society, Denver, CO, March 22-23rd, 2022. (*PaleoAnthropology* 2022: 1: 191)
- 125. Green, D.R., Olack, G., **Smith, T.M.**, Williams, I.S., Lewis, J.E., Uno, K.T., Harmand, S., Colman, A.S. (2022) Seasonal carbon and oxygen isotope compositions from Lomekwi in the Turkana Basin, Kenya. Presented at the Annual Meeting of the Paleoanthropology Society, Denver, CO, March 22-23rd, 2022. (*PaleoAnthropology* 2022: 1: 182)
- 124. Bharatiya, M., Austin, C., **Smith, T.M.** (2022) Testing strontium for estimating weaning ages: implications for marsupial life history reconstruction. Presented at the Royal Society of Queensland Early Career Researcher Showcase, Online, February 18<sup>th</sup>, 2022. (*Proceedings of the Royal Society of Queensland* 2022, 131.)
- 123. **Smith, T.M.**, Arora, M., Bharatiya, M., Feeney, R.N.M., Soficaru, A., Austin, C. (2021) Unprecedented metal exposures suggest childhood resilience in European early industrialists. Presented at the 35<sup>th</sup> Annual Conference of the Australasian Society for Human Biology, Online, December 6-8, 2021.
- 122. **Smith, T.M.**, Austin, C., Ávila, J.N., Green, D.R., Arora, M. (2021) Developmentally-informed assessments of diagenesis in teeth. Presented at the 9<sup>th</sup> International Bone Diagenesis Conference, Évora, Portugal, Sept 21-24<sup>th</sup>, 2021.
- 121. **Smith, T.M.**, Tafforeau, P. (2021) Applications of synchrotron imaging for evolutionary anthropology and biology. Presented at the 6th Australian Society for Molecular Imaging (ASMI) Scientific Symposium, Brisbane, Australia, June 21-23, 2021. (Invited Contribution)
- 120. **Smith, T.M.**, Tafforeau, P. (2021) Applications of synchrotron imaging for evolutionary anthropology. Presented at the National Synchrotron Light Source II (NSLS-II) and Center for Functional Nanomaterials (CFN) Annual Users' Meeting, Online, May 17-20, 2021. (Invited Contribution)
- 119. **Smith, T.M.,** Austin, C., Arora, M. (2021) Elemental evidence for birth in primate tooth enamel. Presented at the 90<sup>h</sup> Annual Meeting of the American Association of Physical Anthropologists, Online, April 7-28, 2021.
- 118. **Smith, T.M.,** Austin, C., Arora, M. (2021) A tale of three monkeys: elemental insights into nursing and health. Presented at the 2nd Conference of the Australasian Research Cluster for Archaeological Science, Online, March 19-20, 2021.
- 117. **Smith, T.M.,** Austin, C., Arora, M. (2020) A tale of two monkeys: dental insights into nursing and health. Presented at the 34<sup>th</sup> Annual Conference of the Australasian Society for Human Biology, Online, December 7-8, 2020.
- 116. **Smith, T.M.** (2020) The tales teeth tell: human development, evolution, and behaviour. Presented at the 36<sup>th</sup> Annual Skepticon Convention, Online, October 23-25, 2020. (Invited Contribution)
- 115. Green, D.R., **Smith, T.M.,** Arora, M., Austin, C. (2020). Trace metal compositions in forming teeth reflect both mineralization and diet. Presented at the 80th Annual Meeting of the Society for Vertebrate Paleontology, Online, October 14-17, 2020.
- 114. Gunz, P., Neubauer, S., Falk, D., Tafforeau, P., Le Cabec, A., Smith, T.M., Kimbel, W.H., Spoor, F., Alemseged, Z. (2020) Australopithecus afarensis endocasts suggest protracted brain growth. Presented at the 10<sup>th</sup> Annual Meeting of the European Society for the study of Human Evolution, Online, September 24-25, 2020.
- 113. **Smith, T.M.,** Austin, C., Arora, M., Green, D.R., Williams, I.S. (2020) Developmental and elemental records in orangutan teeth reveal a complex interplay between primate behavior, physiology, and seasonal climate variation in the tropics. Planned to be presented at the 89<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, CA, April 15-18, 2020. <u>Abstract published but paper not delivered due to the COVID-19 pandemic</u>. (*Am. J. Phys. Anthropol.* Suppl. 69 171: 267-268.)
- 112. Green, D.R., Cote, S., Dirks, W., Reid, D.J., Williams, I.S., **Smith, T.M.** (2020) Seasonal isotope ecology in the east African Miocene ape *Afropithecus*. Planned to be presented at the 89<sup>th</sup> Annual Meeting of the American

- Association of Physical Anthropologists, Los Angeles, CA, April 15-18, 2020. <u>Abstract published but paper not delivered due to the COVID-19 pandemic</u>. (*Am. J. Phys. Anthropol*. Suppl. 69 171: 106.)
- 111. Gunz, P., Neubauer, S., Falk, D., Tafforeau, P., Le Cabec, A., Smith, T.M., Kimbel, W.H., Spoor, F., Alemseged, Z. (2020) Australopithecus afarensis endocasts suggest ape-like brain organization. Planned to be presented at the 89<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, CA, April 15-18, 2020. Abstract published but paper delivered virtually due to the COVID-19 pandemic. (Am. J. Phys. Anthropol. Suppl. 69 171: 109.)
- 110. **Smith, T.M.,** Arora, M., Austin, C., Buckley, H., Green, D.R., Kinaston, R., Williams, I.S. (2019) Interdisciplinary perspectives on the early lives of Neolithic individuals from Pain Haka, Flores. Presented at the 33rd Annual Conference of the Australasian Society for Human Biology, Canberra, Australia, December 1-4, 2019.
- 109. **Smith, T.M.** (2019) Dental tissue research in evolutionary anthropology. Presented at the 29th Annual Scientific Meeting of the Australian and New Zealand Bone and Mineral Society, Darwin, Australia, October 27-30, 2019. (Invited Contribution)
- 108. **Smith, T.M.**, Green, D.R., Williams, I.S. (2019) Weekly-scale oxygen isotope measurements in primate teeth reveal ancient environmental variation. Presented at the 79th Annual Meeting of the Society for Vertebrate Paleontology, Brisbane, Australia, October 9-12, 2019.
- 107. Williams, I.S., **Smith**, **T.M.**, James, H.F., Long, K.E., Trotter, J.A. (2019) SHRIMPing biominerals. Presented at the Workshop on Dating, Isotope Studies and Human Evolution, Brisbane, September 25-27, 2019.
- 106. **Smith, T.M.**, Green, D.R., Cote, S., Williams, I.S. (2019) Fine-scale oxygen isotope measurements in primate teeth reveal ancient environmental variation. Presented at the Workshop on Dating, Isotope Studies and Human Evolution, Brisbane, September 25-27, 2019.
- 105. Chapple S., Davies T., **Smith T.M.**, Skinner, M. (2019) Challenging the paradigm: how enamel-dentine junction variation across primates is inconsistent with current tooth crown nomenclature schemes. Presented at the 9th Annual ESHE meeting, Liège, Belgium, September 19-21, 2019.
- 104. Chapple S.A., Davies T.W., **Smith T.M.**, Skinner, M.M. (2019) MicroCT imaged dentine crown morphology challenges current crown nomenclature schemes for primates. Presented at the 2019 Tooth Morphogenesis & Differentiation meeting, Oxford, England, September 1-6, 2019.
- 103. **Smith, T.M.**, Green, D.R., Williams, I.S. (2019) Weekly oxygen isotope measurements in teeth reveal environmental variation. Presented at the 20th International Union for Quaternary Research Congress, Dublin, Ireland, July 25-31, 2019.
- 102. Green, D.R., Cote, S., Williams, I.S., Smith, T.M. (2019) High resolution paleoenvironmental records from East African fossil apes. Presented at the 20th International Union for Quaternary Research Congress, Dublin, Ireland, July 25-31, 2019.
- 101. **Smith, T.M.**, Green, D.R., Williams, I.S. (2019) The tales teeth tell: ancient climates in Southeast Asia. Presented at the Asia Pacific Conference in Human Evolution, Brisbane, Australia, June 25-27, 2019.
- 100. **Smith, T.M.**, Austin, C., Green, D.R. Joannes-Boyau, R. Bailey, S., Dumitriu, D., Fallon, S., Grün, R., James, H.F., Moncel, M-H., Williams, I.S., Wood, R., Arora, M. (2019) Tales teeth tell: wintertime stress, nursing, and lead exposure in Neanderthal children. Presented at the 88<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH, March 27-30, 2019. (*Am. J. Phys. Anthropol.* Suppl. 68 168: 233.)
- 99. **Smith, T.M.** (2018) Advances in multidimensional perspectives on how teeth grow. Presented at the 32nd Annual Conference of the Australasian Society for Human Biology, Townsville, Australia, December 5-7, 2018.
- 98. **Smith, T.M.**, Houssaye, A., Kullmer, O., Le Cabec, A., Olejniczak, A.J., Schrenk, F., Vos, J. de, Tafforeau, P. (2018) Disentangling the dental remains of Asian Pleistocene hominins and hominoids. Presented at the 21st Indo-Pacific Prehistory Association Conference, Hue, Vietnam, September 23-28, 2018.

- 97. Westaway, K., Louys, J., Due Awe, R., Morwood, M., Price, G., Zhao, J-x., Aubert, M., Joannes-Boyau, R., **Smith, T.**, Skinner, M., Compton, T., Bailey, R., Demeter, F., Bacon, A-M., Duringer, P. (2018) An old map, a lost cave and a missing link: evidence for an early modern human arrival in Southeast Asia. Presented at the 21st Indo-Pacific Prehistory Association Conference, Hue, Vietnam, September 23-28, 2018.
- 96. Williams, I.S., Trotter, J.A., **Smith, T.M.,** Long, K.E., James, H.F., Ghosh, P. (2018) SHRIMP forays into in the world of biominerals. Presented at the 9th International SHRIMP Workshop, Ochang and Gyeongju, Korea, September 10-15, 2018.
- 95. **Smith, T.M.**, Green, D., Austin, C., Arora, M., Grun, R., Williams, I. (2018) Environmental variation and nursing history revealed by sensitive high resolution ion microprobe (SHRIMP) analyses of oxygen isotopes. Presented at the 87th Annual Meeting of the American Association of Physical Anthropologists, Austin, TX, April 10-14, 2018. (*Am. J. Phys. Anthropol.* Suppl. 66 165: 258-259.)
- 94. **Smith, T.M.** (2017) Dental perspectives on nursing and weaning. Presented at the Australian Research Cluster for Archaeological Science (ARCAS) Symposium, Melbourne, Australia, December 5th, 2017.
- 93. **Smith, T.M.** (2017) Developmental disruptions in non-human primates of known histories. Presented at the 31st Annual Meeting of the Australasian Society for Human Biology, Ballarat, Australia, December 4-6th, 2017.
- 92. **Smith, T.M.,** Boughner, J., Greba, Q., Howland, J., Papakyrikos, A.M. (2017) Experimental manipulations of biological rhythms in mammalian teeth. Presented at the 17th International Symposium on Dental Morphology, Bordeaux, France, October 4-7, 2017.
- 91. **Smith, T.M.** (2017) Dental perspectives on nursing and weaning. Presented at the 7th Annual European Society for the Study of Human Evolution Meetings, Leiden, Netherlands, September 21-23, 2017.
- 90. Austin, C., **Smith, T.,** Bello, G., Gennings, C., Wright, R.O., Arora, M. (2017) Reconstructing infant dietary transitions and composition from novel tooth matrix biomarkers. Presented at the Annual Conference of the International Society for Environmental Epidemiology, Sydney, Australia, August 24-28, 2017. (*Abstract* 855)
- 89. Green, D.R., Colman, A.S., Green, G.M., Tafforeau, P., Bidlack, F., Smith, T.M. (2017) New tooth growth model for studying ancient climate. Goldschmidt Annual Meeting, Paris, France, August 13-18, 2017.
- 88. **Smith, T.M.,** Austin, C., Green, D., Arora, M. (2017) Trace element studies support rapid tooth enamel mineralization at the enamel-dentine junction. Presented at the 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, LA, April 19-22, 2017. (*Am. J. Phys. Anthropol.* Suppl. 64:363.)
- 87. **Smith, T.M.,** Austin, C., Hinde, K., Arora, M. (2016) Dental perspectives on weaning in living and fossil primates. Presented at the 30th Annual Meeting of the Australasian Society for Human Biology, Dunedin, New Zealand, December 4-8, 2016.
- 86. **Smith, T.M.,** Austin, C., Hinde, K., Arora, M. (2016) Cyclical nursing patterns in wild orangutans recorded in teeth. Presented at the 85th Annual Meeting of the American Association of Physical Anthropologists, Atlanta, GA, April 12-16, 2016. (*Am. J. Phys. Anthropol.* Suppl. 62:296)
- 85. Green, D.R., Colman, A.S., Green, G.M., Bidlack, F.B., Tafforeau, P., **Smith, T.M.** (2016) Experimental water switch in sheep improves models for seasonal climate reconstruction. Presented at the 85th Annual Meeting of the American Association of Physical Anthropologists, Atlanta, GA, April 12-16, 2016. (*Am. J. Phys. Anthropol.* Suppl. 62:160)
- 84. Green, D.R., Green, G.M., Colman, A.S., Tafforeau, P., **Smith, T.M.** (2015) Synchrotron x-ray imaging and MCMC support seasonal climate reconstruction. Presented at the Latest Methods in Reconstructing Cenozoic Terrestrial Environments and Ecological Communities Symposium, Cleveland Museum of Natural History, Cleveland, OH, September 10-12, 2015.
- 83. **Smith, T.M.,** Russell, B. (2015) How women in STEM fields experience and influence academic culture. NSF ADVANCE/GSE Program Workshop, Baltimore, MD, May 31-June 2, 2015.

- 82. **Smith, T.M.,** Hinde, K., Austin, C., Arora, M. (2015) Dental perspectives on weaning in living and fossil primates. Presented at the 84th Annual Meeting of the American Association of Physical Anthropologists, St. Louis, MO, March 25-29, 2015. (*Am. J. Phys. Anthropol.* Suppl. 60:293)
- 81. Green, D.R., Green, G.M., Colman, A.S., Tafforeau, P., **Smith, T.M.** (2015) Synchrotron x-ray imaging and MCMC support seasonal climate reconstruction. Presented at the 84th Annual Meeting of the American Association of Physical Anthropologists, St. Louis, MO, March 25-29, 2015. (*Am. J. Phys. Anthropol.* Suppl. 60:152)
- 80. Machanda, Z., **Smith, T.M.,** Thompson, M.E., Muller, M.N., Wrangham, R. (2014) Growing up chimpanzee: integrating developmental trajectories among wild *Pan troglodytes*. Presented at the 1st Annual Meeting of the Nor'Eastern Primate Ecology, Evolution, and Behavior Group, Rutgers, New Jersey, November 7-8, 2014.
- 79. **Smith, T.M.,** Hinde, K., Austin, C., Arora, M. (2014) Dental perspectives on the weaning process in living primates. Presented at the 1st Annual Meeting of the Nor'Eastern Primate Ecology, Evolution, and Behavior Group, Rutgers, New Jersey, November 7-8, 2014.
- 78. Le Cabec, A., Tafforeau, P., **Smith, T.M.**, Carlson, K., Berger, L. (2014) Age-at-death and dental developmental pattern of the *Australopithecus sediba* juvenile MH1 determined from synchrotron virtual paleohistology. Presented at the 4th Annual Meeting of the European Society for the Study of Human Evolution, Florence, Italy, September 18-20, 2014.
- 77. Kelley, J., Schwartz, G.T., **Smith, T.M.** (2014) Variation in age at M1 emergence and life history in wild chimpanzees. Presented at the 16th International Symposium on Dental Morphology, Zagreb, Croatia, August 26-30, 2014. (*Bull. Int. Assoc. Paleodontol.* 2014 8:153)
- 76. Green, D.R., Green, G.M., Tafforeau, P., Weaver, J., Colman, A.S., **Smith, T.M.** (2014) Synchrotron imaging helps reconstruct mineralization patterns, and ancient climate. Biomineralization Gordon Research Conference, New London, NH, August 17 22, 2014.
- 75. **Smith, T.M.**, Machanda, Z., Vogel, E. (2014) Can we infer diet from primate enamel thickness? Presented at the 25th Congress of the International Primatological Society, Hanoi, Vietnam, August 11-16, 2014.
- 74. **Smith, T.M.**, Boesch, C., Sirianni, J.E., Hinde, K. (2014) Developmental disruptions in the teeth of primates of known histories. Presented at the 23rd Annual Meeting of the Paleoanthropology Society, Calgary, Canada, April 8-9, 2014. (*PaleoAnthropol.* 2014:A23)
- 73. **Smith, T.M.**, Le Cabec, A., Bonnin, A., Houssaye, A., Pouech, J., Moggi-Cecchi, J., Menter, C.G., Manthi, F., Ward, C., Tafforeau, P. (2014) Resolving Pliocene and Pleistocene hominin dental ontogeny with synchrotron virtual histology. Presented at the 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 9-12, 2014. (*Am. J. Phys. Anthropol.* Suppl. 58:243)
- 72. Tang, N., Jeffrey, N., Graham, P., Worthington, S., Kato, A., Sirianni, J., Lieberman, D., Tafforeau, P., **Smith, T.M.** (2014) The ontogeny of human and macaque prenatal brain and tooth growth. Presented at the 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 9-12, 2014. (*Am. J. Phys. Anthropol.* Suppl. 58:251-252)
- 71. Le Cabec, A., Tafforeau, P. **Smith, T.M.**, Carlson, K., Berger, L. (2014) Dental development of the *Australopithecus sediba* juvenile MH1 determined from synchrotron virtual paleohistology. Presented at the 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 9-12, 2014. (*Am. J. Phys. Anthropol.* Suppl. 58:166)
- 70. Kelley, J., Schwartz, G.T., **Smith, T.M.** (2014) Variation in age at M1 emergence and life history in wild chimpanzees. Presented at the 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 9-12, 2014. (*Am. J. Phys. Anthropol.* Suppl. 58:156)
- 69. Westaway, K.E., Due Awe, R., Morwood, M.J., Zhao, J., Bergh, G.D., **Smith, T.**, Vos, J., Dubiantono, T. (2014) Another piece in the puzzle of human arrival in Southeast Asia? Evidence from Dubois's rainforest breccia in Sumatra. Presented at the 20th Congress of the Indo-Pacific Prehistory Association, January 12-18, 2014.

- 68. Le Cabec, A., **Smith, T.M.,** Tafforeau, P. (2013) New synchrotron-based visualization technique for incremental growth lines and stresses in fossil teeth. Presented at the 3rd Annual Meeting of the European Society for the Study of Human Evolution, Vienna, Austria, September 20-21, 2013.
- 67. Le Cabec, A., Tafforeau, P., **Smith, T.M.** (2013) Advances in virtual dental histology for palaeoanthropology using multi-scale propagation phase contrast X-ray synchrotron microtomography. Presented at the 10th International Congress of Vertebrate Morphology, Barcelona, Spain, July 8-12, 2013.
- 66. Tafforeau, P., Smith, T.M. (2013) Synchrotron virtual palaeohistology: accessing the archives of hominin dental development and life history non-destructively. Presented at the 11th International Conference on Tooth Morphogenesis and Differentiation, La Londe les Maures, France, May 26-31, 2013.
- 65. Le Cabec, A., Smith, T.M., Bonnin, A., Tafforeau, P. (2013) New synchrotron-based visualization technique for fine incremental structures and stresses in teeth. Presented at the 11th International Conference on Tooth Morphogenesis and Differentiation, La Londe les Maures, France, May 26-31, 2013.
- 64. **Smith, T.M.,** Machanda, Z., Bernard, A., Donovan, R., Papakyrikos, A.M., Muller, M.N., Wrangham, R. (2013) First molar eruption and life history in living wild chimpanzees. Presented at the 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, TN, April 10-13, 2013. (*Am. J. Phys. Anthropol.* Suppl. 56:258)
- 63. Kato, A., Tang, N., Papakyrikos, A., Hinde, K., Miller, E., Kunimatsu, Y., Hirasaki, E., Shimizu, D., **Smith, T.M.** (2013). Molar enamel thickness in four macaque species. Presented at the 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, TN, April 10-13, 2013. (*Am. J. Phys. Anthropol.* Suppl. 56:163)
- 62. Tang, N., Kato, A., Hinde, K., Miller, E., **Smith, T.M.** (2013) Molar development and life history in four macaque species. Presented at the 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, TN, April 10-13, 2013. (*Am. J. Phys. Anthropol.* Suppl. 56:268-269)
- 61. Green, D., **Smith, T.M.**, Tafforeau, P. (2013) Microtomographic assessment of mineralization patterns to inform isotope paleoenvironment reconstruction. Presented at the 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, TN, April 10-13, 2013. (*Am. J. Phys. Anthropol.* Suppl. 56:135-136)
- 60. Carter, K.E., Worthington, S., **Smith, T.M.** (2013) The evolution of third molar agenesis. Presented at the 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, TN, April 10-13, 2013. (*Am. J. Phys. Anthropol.* Suppl. 56:95) Won the Albert A. Dahlberg Student Prize.
- 59. Papakyrikos, A., Wen, Y., Austin, C., Kato, A., Tang, N., Arora, M., Wang, X.-P., **Smith, T.M.** (2013) Incremental growth lines in melatonin-deficient mice. Presented at the 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, TN, April 10-13, 2013. (*Am. J. Phys. Anthropol.* Suppl. 56:215)
- 58. **Smith, T.M.**, Donovan, R., Machanda, Z., Papakyrikos, A.M., Wrangham, R. (2012) A primate perspective on the evolution of human life history. Presented at the 111th American Anthropological Association Meeting, San Francisco, CA, November 14-18, 2012. (Invited Contribution)
- 57. Kato, A., Papakyrikos, A., Tang, N., Kunimatsu, Y., Hinde, K., Miller, E., Ohno, N., **Smith, T.** (2012) Molar enamel thickness in macaque species. Presented at the 66th Annual Meeting of the Anthropological Science of Nippon, Kanagawa, Japan, November 2-4, 2012.
- 56. Green, D.R., Weaver, J., **Smith, T.M.** (2012) Quantitative density with micro-computed tomography: mapping mineralization. Presented at the 2012 Northeast Regional Meeting of the Division of Vertebrate Morphology of the Society for Integrative and Comparative Biology, Amherst, MA, November 3<sup>rd</sup>, 2012.
- 55. **Smith, T.M.**, Houssaye, A., Hublin, J-J., Kato, A., Kullmer, O., Maire, E., Olejniczak, A.J., Schrenk, F., Tafforeau, P., Vos, J. de, Zermeno, J.P. (2012) Reassessing enigmatic Asian hominoid dental remains. Presented at the 81st Annual Meeting of the American Association of Physical Anthropologists, Portland, OR, April 11-14, 2012. (*Am. J. Phys. Anthropol.* Suppl. 54:273)

- 54. Stinespring Harris, A., Guatelli-Steinberg, D., Reid, D.J., Larsen, C.S., Hutchinson, D., **Smith, T.M.** (2012) A method to estimate the timing of linear enamel hypoplasia for Neandertals. Presented at the 81st Annual Meeting of the American Association of Physical Anthropologists, Portland, OR, April 11-14, 2012. (*Am. J. Phys. Anthropol.* Suppl. 54:278)
- 53. Wen, Y., Katebi, N., Zhao, J., Liu, M., Kato, A., **Smith, T.**, Cox, K., Amendt, B., Camargo, F., Martin, J., Bidlack, F., Bartlett, J., Wang, X.-P. (2012) Where and how to make extra teeth. Presented at the 2012 Annual Meeting of the American Association of Dental Research, Tampa, FL, March 21-24, 2012.
- 52. Wen, Y., Katebi, N., Zhao, J., Liu, M., Kato, A., **Smith, T.**, Cox, K., Amendt, B., Camargo, F., Martin, J., Bidlack, F., Bartlett, J., Wang, X.-P. (2012) Hippo signaling and tooth development. Presented at the 2012 Gordon Research Conference on Craniofacial Morphogenesis & Tissue Regeneration, Ventura, CA, March 18-23, 2012.
- 51. **Smith, T.M.**, Zermeno, J.P., Green, D.R., Reid, D.J., Tafforeau, P. (2011) Daily secretion rates, prism paths, and cuspal formation times in hominoid molars. Presented at the 15th International Symposium on Dental Morphology, Newcastle, UK, August 24-27, 2011. (*Bull. Int. Assoc. Paleodontol.* 7:129)
- 50. Tafforeau, P., Houssaye, A., Zermeno, J.P., Pouech, J., **Smith, T.M.** (2011) Revealing dental microstructure and development in fossil hominids non-destructively using synchrotron virtual histology. Presented at the International Symposium on Paleohistology, Barcelona, Spain, July 18-20, 2011.
- 49. Tafforeau, P., **Smith, T.M.** (2011) The ESRF virtual database: A new resource for paleoanthropologists. Presented at the Annual Meeting of the Paleoanthropology Society, Minneapolis, MN, April 12-13, 2011. (*PaleoAnthropol.* 2011:A37.)
- 48. **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., Masrour, M., Toussaint, M., Stringer, C., Hublin, J-J. (2011) Histological evidence for ontogenetic differences between modern human and Neanderthal dentitions. Presented at the 80th Annual Meeting of the American Association of Physical Anthropologists, Minnesota, MN, April 13-16, 2011. (*Am. J. Phys. Anthropol.* Suppl. 52:278-279)
- 47. Tafforeau, P., Pouech, J., **Smith, T.M.,** Moggi-Cecchi, J., Menter, C.G. (2011) Dental development in juvenile fossil hominins from Drimolen, South Africa using synchrotron virtual histology. Presented at the 80th Annual Meeting of the American Association of Physical Anthropologists, Minnesota, MN, April 13-16, 2011. (*Am. J. Phys. Anthropol.* Suppl. 52:289)
- 46. Green, D.R., Glowacka, H., Schwartz, G.T., Reid, D.J., Martin, L.B., **Smith, T.M.** (2011) Developmental variation in great ape molar crowns. Presented at the 80th Annual Meeting of the American Association of Physical Anthropologists, Minnesota, MN, April 13-16, 2011. (*Am. J. Phys. Anthropol.* Suppl. 52:148-149)
- 45. Tafforeau, P., **Smith, T.M.,** Reid, D.J., Pouech, J., Lazzari, V., Zermeno, J.P., Guatelli-Steinberg, D., Olejniczak, A.J., Hoffman, A., Radovčić, J., Masrour, M., Toussaint, M., Stringer, C., Hublin, J-J. (2011) Différences ontogénétiques entre les dentitions des humains modernes et des Neanderthaliens révélées par histologie virtuelle dentaire synchrotron. Presented at the Journées de la Société Paléoanthropologique, Paris, France, January 26-28, 2011.
- 44. **Smith, T.M.** (2010) Biological rhythms in dental hard tissues. Presented at the 2010 Northeast Regional Meeting of the Division of Vertebrate Morphology of the Society for Integrative and Comparative Biology, Cambridge, MA, October 16, 2010.
- 43. Green, D.R., Braun, J., Morgan, M., Pilbeam, D., Tuross, N., **Smith, T.M.** (2010) Integrating carbon and oxygen isotope signals: seasonality in the Siwaliks, Pakistan. Presented at the 2010 Northeast Regional Meeting of the Division of Vertebrate Morphology of the Society for Integrative and Comparative Biology, Cambridge, MA, October 16, 2010.
- 42. **Smith, T.M.** (2010) Insights from the inside: what teeth tell us about great ape evolution. Presented at the 23rd International Primatological Society Congress, Kyoto, Japan, September 12-18, 2010.
- 41. **Smith, T.M.,** Zermeno, J.P., Pouech, J., Tafforeau, P., Olejniczak, A.J., Reid, D.J., Eastham, L., Hublin, J.-J., Kordos, L., Begun, D. (2010) Enamel thickness and tooth development in a subadult *Dryopithecus brancoi*

- (*Rudapithecus hungaricus*) individual. Presented at the 79th Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM, April 14-17, 2012. (*Am. J. Phys. Anthropol.* Suppl. 50:220)
- 40. Zermeno, J.P., **Smith, T.M.,** Tafforeau, P. (2010) Enamel prisms revealed in three-dimensions by phase contrast synchrotron microtomography. Presented at the 79th Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM, April 14-17, 2012. (*Am. J. Phys. Anthropol.* Suppl. 50:250-251)
- 39. MacLatchy, L., Rossie, J., **Smith, T.M.,** Tafforeau, P. (2010) Evidence for dietary niche separation in the Miocene hominoids *Morotopithecus* and *Afropithecus*. Presented at the 79th Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM, April 14-17, 2010. (*Am. J. Phys. Anthropol.* Suppl. 50:60)
- 38. Zink, K., Siders, A., **Smith, T.**,\* Lieberman, D. (2010) Bone and dental responses to masticatory loading: a shared regulatory mechanism? Presented at the 79th Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM, April 14-17, 2010. (*Am. J. Phys. Anthropol.* Suppl. 50:251) \*Erroneously omitted from author list in program.
- 37. Constantino, P.J., Lee, J. J.-W., Morris, D., Hartstone-Rose, A., **Smith, T.M.,** Lucas, P.W., Lawn, B.R. (2010) Extracting ecological information from the mechanical properties and structure of primate teeth. Presented at the 79th Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM, April 14-17, 2010. (*Am. J. Phys. Anthropol.* Suppl. 50:84)
- 36. **Smith, T.M.,** Tafforeau, P. (2009) Paleontological applications of synchrotron imaging with special insights into human evolution. Presented at the General Congress of the French Physics Society, Palaiseau, France, July 6-10, 2009.
- 35. **Smith, T.M.**, Smith, B.H., Boesch, C. (2009) Dental development in the Taï forest chimpanzees reappraised. Presented at the 78th Annual Meeting of the American Association of Physical Anthropologists, Chicago, IL, April 1-4, 2009. (*Am. J. Phys. Anthropol.* Suppl. 48:377).
- 34. Tafforeau, P., Hublin, J.-J., **Smith, T.M.** (2009) Hominin dental structure and development revealed non-destructively by multi-scale synchrotron imaging. Presented at the 78th Annual Meeting of the American Association of Physical Anthropologists, Chicago, IL, April 1-4, 2009. (*Am. J. Phys. Anthropol. Suppl.* 48:157-158.).
- 33. Constantino, P.J., Lee, J.J.-W., **Smith, T.M.,** Lucas, P.W., Lawn, B.R. (2009) Mechanical properties of great ape tooth enamel. Presented at the 78th Annual Meeting of the American Association of Physical Anthropologists, Chicago, IL, April 1-4, 2009. (*Am. J. Phys. Anthropol.* Suppl. 48:391-392.).
- 32. Raynal, J.P., Sbihi-Alaoui, F-Z., Mohib, A., El Graoui, M., Lefèvre, D., Texier, J-P., Geraads, D., Hublin, J-J. Smith, T., Tafforeau, P., Zouak, M., Grün, R., Rhodes, E.J., Eggins, S., Daujard, C., Fernandes, P., Gallotti, R., Hossini, S., Queffelec, A. (2008) Hominid Cave at Thomas Quarry I (Casablanca, Morocco): recent findings and their context. Presented at the International Congress: The oldest human expansions in Eurasia favouring and limiting factors, Paris, France, November 26-28, 2008.
- 31. **Smith, T.M.** (2008) Life and death in juvenile hominins from the Middle Paleolithic. Presented at the 14th International Symposium on Dental Morphology, Greifswald, Germany, August 26-30, 2008.
- 30. **Smith, T.M.**, Reid, D.J. (2008) The temporal nature of periradicular bands ("*Striae Periradicales*") on mammalian tooth roots. Presented at the 14th International Symposium on Dental Morphology, Greifswald, Germany, August 26-30, 2008.
- 29. **Smith, T.M.**, Harvati, K., Olejniczak, A.J., Reid, D.J., Hublin, J.-J., Panagopoulou, E. (2008) Dental development and enamel thickness in the Neanderthal molar from Lakonis, Greece. Presented at the 77th Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH, April 7-13, 2008. (*Am. J. Phys. Anthropol.* Suppl. 46:197-198).
- 28. Reid, D.J., **Smith, T.M.,** Hublin, J.-J. (2008) Dental development and enamel thickness in northwestern African modern humans. Presented at the 77th Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH, April 7-13, 2008. (*Am. J. Phys. Anthropol.* Suppl. 46:179).

- 27. **Smith, T.M.**, Hublin, J.-J., Tafforeau, P. (2008) Synchrotron investigations of fossil hominin dental structure and development. Presented at the Annual Meeting of the Paleoanthropology Society, Vancouver, Canada, March 25-26, 2008. (*PaleoAnthropol.* A30).
- Olejniczak, A.J., Smith, T.M., Glasmacher, U.A., Hublin, J.-J. (2007) High-resolution microCT analysis of the Mauer mandible. Proceedings of the 7th Congress of the German Anthropological Association. Freiburg im Breisgau, Germany, September 11, 2007.
- 25. **Smith, T.M.** (2007) New approaches to understanding tooth development and life history in hominoid evolution. Plenary lecture presented at the 2nd Congress of the European Federation for Primatology, Prague, Czech Republic, September 3-7, 2007.
- 24. Hublin, J.J., Bailey, S., Olejniczak, A., **Smith, T.**, Verna, C., Sbihi-Alaoui, F.Z., Zouak, M. (2007) Dental evidence from the Aterian human populations of Morocco. Presented at the conference: Modern Origins: A North African Perspective, Leipzig, Germany, August 30-September 1, 2007.
- 23. **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. Presented at the International Congress of Vertebrate Morphology, Paris, France, July 16-21, 2007. (*J. Morph.* 268:1135-1136)
- 22. **Smith, T.M.**, Olejniczak, A.J., Reid, D.J., Hublin, J.-J., Toussaint, M. (2007) Dental development, enamel thickness, and age at death in the Scladina Cave Belgian Neanderthal. Presented at the Annual Meeting of the Paleoanthropology Society, Philadelphia, PA, March 27-28, 2007. (*PaleoAnthropol.* A30)
- 21. Olejniczak, A.J., **Smith, T.M.**, Skinner, M.M., Grine, F.E., Feeney, R.N.M., Thackeray, J.F., Hublin, J.-J. (2007) Molar tissue volumes and enamel thickness in South African fossil hominins. Presented at the Annual Meeting of the Paleoanthropology Society, Philadelphia, PA, March 27-28, 2007. (*PaleoAnthropol.* A21-22)
- 20. **Smith, T.M.** (2007) Molar crown development in wild orangutans. Presented at the 76th Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, PA, March 29-April 1, 2007. (*Am. J. Phys. Anthropol.* Suppl. 44:222)
- 19. Olejniczak, A.J., **Smith, T.M.**, Wei, W., Potts, R., Ciochon, R., Kullmer, O., Schrenk, F., Hublin, J.-J. (2007) Microtomographic investigation of enamel thickness and enamel-dentine junction shape in *Gigantopithecus blacki*. Presented at the 76th Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, PA, March 29-April 1, 2007. (Erroneously omitted from *Am. J. Phys. Anthropol.* Suppl. 44)
- 18. Skinner, M.M., Olejniczak, A.J., Rosas, A., **Smith, T.M.**, Wood, B.A., Hublin, J.-J. (2007) Dentine crown expression of discrete dental traits on extant hominoid and fossil hominin lower molars. Presented at the 76th Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, PA, March 29-April 1, 2007. (*Am. J. Phys. Anthropol.* Suppl. 44:220) Won Albert A. Dahlberg Student Prize.
- 17. **Smith, T.M.**, Tafforeau, P., Reid, D.J., Boutakiout, M., Hublin, J.-J. (2006) Crown formation and age at death in the juvenile hominin from Jebel Irhoud, Morocco. Presented at the Dental Tissues Workshop: 2D and 3D Insights into Human Evolution, Leipzig, Germany, September 20-23, 2006.
- 16. Smith, T.M., Reid, D.J., Olejniczak, A.J., Bailey, S., Glantz, M., Viola, B., Hublin, J.-J. (2006) Dental development and age at death in a Middle Paleolithic juvenile hominin from Obi-Rakhmat Grotto, Uzbekistan. Presented at the 150 Years of Neanderthal Discoveries International Congress, Bonn, Germany, July 21-26, 2006. (*Terra Nostra* 2:136.)
- 15. Olejniczak, A.J., **Smith, T.M.**, Macchiarelli, R., Mazurier, A., Bondioli, L., Rosas, A., Fortea, J., de la Rasilla, M., García-Tabernero, A., Skinner, M.M., Hublin, J.-J. (2006) Enamel volume and thickness in Neanderthal molars: a microtomographic investigation. Presented at the 150 Years of Neanderthal Discoveries International Congress, Bonn, Germany, July 21-26, 2006. (*Terra Nostra* 2:128-129.)
- 14. **Smith, T.M.**, Olejniczak, A.J., Tafforeau, P., Grine, F.E., Hublin, J.-J. (2006) High resolution microtomography of Middle Stone Age human molars from South Africa. Presented at the 75th Annual Meeting of the American Association of Physical Anthropologists, Anchorage, AK, March 8-11, 2006. (*Am. J. Phys. Anthropol.* Suppl. 42:140-141.)

- 13. Olejniczak, A.J., **Smith, T.M.**, Tafforeau, P., Temming, H., Hublin, J.-J. (2006) A comparison of microtomographic systems for the analysis of dental tissues. Presented at the 75th Annual Meeting of the American Association of Physical Anthropologists, Anchorage, AK, March 8-11, 2006. (*Am. J. Phys. Anthropol.* Suppl. 42:167.)
- 12. **Smith, T.M.**, Olejniczak, A.J., Tafforeau, P., Hublin, J.-J. (2005) New approaches to understanding enamel thickness and development in human and primate evolution. Presented at the International Symposium on Migration and Evolution of Early Humans in the Old World, Baise, Guangxi Zhuang Autonomous Region, China, December 5-9, 2005.
- 11. **Smith, T.M.** (2005) New evidence for the periodicity of incremental structures in enamel. Presented at the 13th International Dental Symposium on Dental Morphology, Lodz, Poland, August 24-27, 2005.
- 10. **Smith, T.M.**, Reid, D.J., Dean, M.C., Olejniczak, A.J., Ferrell, R.J., Martin, L.B. (2005) New perspectives on chimpanzee and human dental development. Presented at the Max Planck Institute for Evolutionary Anthropology Dental Paleoanthropology Conference, Leipzig, Germany, May 26-28, 2005.
- 9. **Smith, T.M.**, Olejniczak, A.J., Martin, L.B., Reid, D.J., Dean, M.C. (2005) Molar cusp formation in common chimpanzees (*Pan troglodytes*). Presented at the 74th Annual Meeting of the American Association of Physical Anthropologists, Milwaukee, Wisconsin, April 6-9, 2005. (*Am. J. Phys. Anthropol.* Suppl. 40:198.)
- 8. **Smith, T.M.**, Benes, S., Martin, L.B. (2004) Relative enamel thickness in a large sample of *Pan* and *Pongo* molars. Presented at the 73rd Annual Meeting of the American Association of Physical Anthropologists, Tampa, FL, April 14-17, 2004. (*Am. J. Phys. Anthropol.* Suppl. 38:185.)
- 7. **Smith, T.M.**, Dean, M.C., Kelley, J., Martin, L.B., Reid, D.J., Schwartz, G.T. (2003) Molar crown formation in Miocene hominoids: a preliminary synthesis. Presented at the 72nd Annual Meeting of the American Association of Physical Anthropologists, Tempe, AZ, April 23-26, 2003. (*Am. J. Phys. Anthropol.* Suppl. 36:196.)
- 6. Johnson, S.E., Irwin, M.T., Wright, P.C., Arrigo-Nelson, S., Grassi, C., Samonds, K.E., **Smith, T.M.** (2003) Natural and anthropomorphic influences on lemur population structure in southeastern Madagascar. Presented at the 72nd Annual Meeting of the American Association of Physical Anthropologists, Tempe, AZ, April 23-26, 2003. (*Am. J. Phys. Anthropol.* Suppl. 36:123.)
- 5. **Smith, T.M.**, Martin, L.B., Sirianni, J.E. (2002) Incremental features of pre- and postnatal enamel microstructure in pigtailed macaques (*Macaca nemestrina*). Presented at the 71st Annual Meeting of the American Association of Physical Anthropologists, Buffalo, NY, April 10-14, 2002. (*Am. J. Phys. Anthropol.* Suppl. 34:144.)
- 4. **Smith, T.M.**, Martin, L.B., de Bonis, L., Koufos, G.D. (2001) Dental development in *Graecopithecus freybergi* (*Ouranopithecus macedoniensis*). Presented at the 70th Annual Meeting of the American Association of Physical Anthropologists, Kansas City, MO, March 28-31, 2001. (*Am. J. Phys. Anthropol.* Suppl. 32:140.)
- 3. **Smith, T.M.**, Martin, L.B. (2000) A re-evaluation of enamel thickness and development in *Afropithecus turkanensis*. Presented at the 69th Annual Meeting of the American Association of Physical Anthropologists, San Antonio, TX, April 10-15, 2000. (*Am. J. Phys. Anthropol.* Suppl. 30:285-286.)
- 2. **Smith, T.M.**, Iovine, T., Anemone, R.L., Nachman, B. (1997) Vertebrate paleontology of the great divide basin, SW Wyoming: field and lab studies. Presented at the 37th Annual Meeting of the Northeastern Anthropological Association, Quebec, Canada, April 11-13, 1997.
- 1. **Smith, T.M.** (1997) Scanning electron microscope investigations of fossil and living mammalian dentitions. Presented at the Tri-Beta Biological Honors Society Regional Meetings, Geneseo, NY, March 15, 1997.

#### **Invited Addresses and Lectures**

- \* Australian Research Centre for Human Evolution Dart Public Forum, Brisbane, Australia, 2023.
- \* Australian Prosthodontic Society, Biennial Christmas Function of the Queensland Branch, Brisbane, Australia, 2023.
- \* Professor Donald B. Giddon Annual Lecture in Behavioral Medicine and Dentistry, Harvard School of Dental Medicine, Boston, USA, 2023.

- \* Lyceum Club, Brisbane, Australia, 2023.
- \* University of Vienna Doctoral School of Ecology and Evolution, 2023.
- \* Cambridge University Biological Anthropology Society, 2022.
- \* The Australian National University, Biological Anthropology Seminar Series, 2022.
- \* J. James Woods Lecture Series, Butler University, Indianapolis, Indiana, 2022.
- \* The Australian Synchrotron, Seminar Series, Melbourne, Australia, 2022.
- \* The Australian National University, Research School of Earth Sciences Seminar Series, 2021.
- \* Keynote Address, New Zealand Association for Women in Science Conference, 2021.
- \* University of Adelaide, Ecology and Evolution Seminar Series, 2021.
- \* La Trobe University, Archaeology Seminar Series, 2021.
- \* Tufts University School of Dental Medicine, Students for Interprofessional Practice and Education Club, 2020.
- \* Smithsonian National Museum of Natural History Virtual Lecture Series, 2020.
- \* Luminary Lectures at the Library Program, Gold Coast Libraries, Broadbeach, Australia, 2020.
- \* University of Adelaide Dental School, Adelaide, Australia, 2020.
- \* Australian and New Zealand Bone and Mineral Society, Darwin, Australia, 2019.
- \* Lyceum Club, Melbourne, Australia, 2019.
- \* University of Alberta, Alumni Weekend, Edmonton, Canada, 2019.
- \* Gold Coast Skeptics, Southport, Australia, 2019.
- \* Soapbox Science, Surfers Paradise, Australia, 2019.
- \* Griffith University, Griffith Institute for Drug Discovery, Nathan, Australia, 2019.
- \* Pogonion Dental Study Club, Brisbane, Australia, 2019.
- \* Anthropology Department, State University of New York at Geneseo, Geneseo, NY, USA, 2019.
- \* Griffith Sciences Impact Lecture Series & Book Launch, Brisbane, Australia, 2018.
- \* Queensland Museum After Dark Lecture Series, Brisbane, Australia, 2018.
- \* Research on East African Catarrhine and Hominoid Evolution Workshop, Nairobi, Kenya, 2018.
- \* Monash University, Department of Anatomy and Developmental Biology, Melbourne, Australia, 2018.
- \* World Science Festival, Brainfood Breakfast Lecture, Brisbane, Australia, 2018.
- \* STEM Girl Power, Women in STEM Panel, Brisbane, Australia, 2018.
- \* Australasian Society of Immunology Conference, Women's Initiative Panel, Brisbane, Australia, 2017.
- \* University of Sydney, Westmead Centre for Oral Health, Sydney, Australia, 2017.
- \* University of Wollongong, Centre of Archaeological Science, Wollongong, Australia, 2017.
- \* University of Auckland, Department of Anthropology, Auckland, New Zealand, 2017.
- \* University of Queensland, School of Social Science, Brisbane, Australia, 2017.
- \* Griffith University, School of Dentistry and Oral Health, Gold Coast, Australia, 2017.
- \* Harvard School of Dental Medicine's Sesquicentennial Celebration Educational Summit, Boston, MA, 2017.
- \* Griffith University, Environmental Futures Research Institute Lunchbox Lecture, Brisbane, Australia, 2017.
- \* Australian National University, School of Archaeology and Anthropology, Canberra, Australia, 2017.
- \* University of California Davis, Department of Anthropology, Davis, CA, 2016.
- \* Griffith University, Research Centre of Human Evolution Inaugural Symposium, Brisbane, Australia, 2016.
- \* Expanding Potential Workshop, University of California, Berkeley, Berkeley, CA, 2016.
- \* University of Washington Quaternary Research Center Distinguished Lecture, Seattle, WA, 2015.
- \* Harvard Museums of Science and Culture Evolution Matters Series, Cambridge, MA, 2015.
- \* Harvard University, Human Evolutionary Biology Colloquium Series, Cambridge, MA, 2014.
- \* California Academy of Sciences, Hearst Symposium on Being Human, San Francisco, CA, 2014.
- \* American Association of Physical Anthropologists' Annual Meeting, Invited Symposium, Calgary, Canada, 2014.
- \* Duke University, Evolutionary Anthropology Seminar Series, Durham, NC, 2014.
- \* Duke University, Women in Science and Engineering Program, Durham, NC, 2014.
- \* University of California Berkeley, Primate Biology Seminar Series, Berkeley, CA, 2013.
- \* University of Colorado Boulder, Biological Anthropology Seminar Series, Boulder, CO, 2013.
- \* University of Michigan, Anthropology Department Seminar Series, Ann Arbor, MI, 2013.
- \* Radcliffe Institute for Advance Study, Fellows Lecture, Cambridge, MA, 2013.
- \* Forsyth Institute, Institutional Seminar, Cambridge, MA, 2013.
- \* American Association of Anthropologists' Annual Meeting, Invited Symposium, San Francisco, CA, 2012.
- \* SICB Division of Vertebrate Morphology Regional Meeting, Big Picture Talk, Amherst, MA, 2012.
- \* University of Saskatchewan, Department of Anatomy and Cell Biology Seminar Series, Saskatoon, Canada, 2012.
- \* Yale University, Anthropology Department Seminar Series, New Haven, CT, 2012.
- \* Harvard School of Dental Medicine, Basic Sciences and Clinical Science Forum, Boston, MA, 2011.
- \* Gordon Research Conference on Bones and Teeth, Plenary Address, Les Diablerets, Switzerland, 2011.
- \* Hamilton-Wenham Regional High School, Research Seminar, Hamilton, MA, 2011.
- \* New England Society for Microscopy's Annual Meeting, Plenary Address, Woods Hole, MA, 2011.

- \* University of New Mexico, Interdisciplinary Biological & Biomedical Science Seminar, Albuquerque, NM, 2011.
- \* University of Massachusetts at Amherst, Organismic & Evolutionary Biology Seminar, Amherst, MA, 2011.
- \* Harvard Pre-Dental Society's First Annual Research Conference, Research Seminar, Cambridge, MA, 2011.
- \* California Academy of Sciences, Bioforum Invited Symposium, San Francisco, CA, 2010.
- \* University of Massachusetts at Amherst, Physical Anthropology Seminar Series, Amherst, MA, 2010.
- \* Harvard Natural History Museum, Research Seminar, Cambridge, MA, 2010.
- \* European Synchrotron Radiation Facility (ESRF), Invited Symposium, Grenoble, France, 2009.
- \* General Congress of the French Physics Society, Plenary Address, Paris, France, 2009.
- \* Harvard University, Concord Field Station Seminar Series, Cambridge, MA, 2008.
- \* University of the Witwatersrand, School of Anatomical Sciences, Johannesburg, South Africa, 2008.
- \* ESRF Biological Physics at Large Facilities Conference, Keynote Address, Grenoble, France, 2008.
- \* International Symposium on Dental Morphology, Keynote Address, Greifswald, Germany, 2008.
- \* Stony Brook University, Paleobiology Seminar Series, Stony Brook, NY, 2008.
- \* Brandeis University, Human Origins Guest Lecturer, Waltham, MA, 2008.
- \* ESRF Annual Users Meeting, Invited Symposium, Grenoble, France, 2008.
- \* Harvard University, Biological Anthropology Seminar Series, Cambridge, MA, 2007.
- \* European Federation for Primatology Congress, Plenary Address, Prague, Czech Republic, 2007.
- \* Weizmann Institute, Research Symposium, Rehovat, Israel, 2007.
- \* Cafe Scientifique, Freiberg, Germany, 2007.
- \* Max Planck Institute for Evolutionary Anthropology, Curators' Workshop Seminar, Leipzig, Germany, 2007.
- \* International Human Evolution Symposium, Baise, Guangxi Zhuang Autonomous Region, China, 2005.
- \* Max Planck Institute for Evolutionary Anthropology, School of Human Origins, Leipzig, Germany, 2005.
- \* Stony Brook University, Doctoral Commencement Ceremony Student Address, Stony Brook, NY, 2005.
- \* Stony Brook University, Distinguished Doctoral Students' Awards Colloquium, Stony Brook, NY, 2005.
- \* University of Freiburg, Institute for Human Genetics and Anthropology, Freiburg, Germany, 2005.
- \* Stony Brook University, President's Junior Academy Research Program Keynote Address, Stony Brook, NY, 2002.
- \* Stony Brook University, Women in Science and Engineering High School Program, Stony Brook, NY, 2002.

## Conferences, Workshops and Symposia Organized & Chaired

- \* Australasian Society for Human Biology's 37th Annual Meeting, Brisbane, Australia, December 10-13th, 2023.
- \* Voices from Down Under, American Association of Physical Anthropologist's Virtual Webinar, October 13th, 2020.
- \* BAWMN Wellness Tea, Biological Anthropology Women's Mentoring Network, Online, April 24th, 2020.
- \* Allies in Research and in Life, Griffith Sciences Group, Griffith University, Nathan, Australia, May 14, 2018.
- \* Resilience in Research and in Life, Griffith Sciences Group, Griffith University, Nathan, Australia, August 17, 2017.
- \* Academic Women's Leadership: An Experiential Workshop (Co-leader with Beth Russell), UC Davis Postdoc Entrepreneurship and Career Group, University of California, Davis, Davis, CA, April 28th, 2016.
- \* Whole Brain Living: An Experiential Workshop for the Harvard University Graduate Women in Science and Engineering Program (Co-leader with Allison Ballou), Harvard University, Cambridge, MA, March 30, 2014.
- \* Radcliffe Institute Exploratory Seminar: *Interdisciplinary Perspectives on the Evolution and Development of the Vertebrate Head* (Co-chair with with Arkhat Abzhanov), Radcliffe Institute, Cambridge, MA, June 1-2, 2012.
- \* Developmental Variation of the Primate Dentition: A Symposium in Honor of Donald J. Reid (Co-chair with Debbie Guatelli-Steinberg), American Association of Physical Anthropologists' Annual Meeting, Minneapolis, MN, April 15, 2011.
- \* Dental Tissues Workshop: 2D and 3D Insights into Human Evolution, (Co-chair with Jean-Jacques Hublin), Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, September 20-23, 2006.
- \* Stony Brook University Women's Leadership Symposium, Stony Brook University, NY, April 25 & 27, 2002.

# Teaching and Mentoring Experience

- \* GU, 2006ESC Bioarchaeology Guest Lecture, 2024.
- \* University of Illinois Chicago, Anthropology 239 Guest Lecture, 2024.
- \* GU, 2006ESC Bioarchaeology Guest Lecture, 2023.
- \* University of Vienna, Graduate Student Seminar in Ecology and Evolution, 2023.
- \* La Trobe University, Archaeological Science ARCSCI2 Guest Lecture, 2022.
- \* Butler University, Advanced Evolution Class Discussion, 2022.
- \* Willamette University, Fine Arts Class Lecture, 2022.
- \* La Trobe University, Archaeological Science ARCSCI2 Guest Lecture, 2021.
- \* University of Nebraska Lincoln, Dental Anthropology Class Discussion, 2020.
- \* GU, LHS 1706 Global Humanities Guest Lecturer, 2020.

- \* GU, FutureLearn MOOC: A Question of Time: How Do We Date Human Evolution, 2018, 2019.
- \* Pinnacle Foundation Student Mentor, 2018.
- \* GU, NSC 3029: Perspectives on Human Evolution, T3 2017, 2018.
- \* HU, HEB 1200: Neanderthals and Human Evolutionary History, Fall 2015.
- \* HU, HEB 1423: Human Origins and Evolution, Spring 2013.
- \* HU, HEB 1420: Human Evolutionary Anatomy, Spring 2009, 2010, 2011, 2012, 2015.
- \* HU, HEB 1421: Teeth, Spring 2009, Fall 2009, 2011, 2012, 2015.
- \* HU, FS 44s: Neanderthals and Human Evolutionary Theory, Fall 2009, 2011, 2012, 2014.
- \* SBU, WIS 187: Introduction to Research: Dental Anthropology, 2000-2004.
- \* SBU, ANP 300: Human Anatomy (Laboratory Instructor), Fall 2003.
- \* SBU, HBA 521: Gross Anatomy (Substitute Laboratory Instructor & Tutor), Fall 2003.
- \* SBU, HBA 531: The Body (Laboratory Instructor), Fall 2002.
- \* SBU, Mentor for the Women in Science and Engineering W:W Mentor Program, 2000-2002.
- \* SBU, BIO 151: Organisms to Ecosystems Laboratory (Laboratory Instructor), Fall 1998.
- \* SUNY Geneseo, ANTH 203: Human Osteology (Teaching Assistant), Fall 1997.
- \* SUNY Geneseo, ANTH 105: Introduction to Physical Anthropology (Teaching Assistant), Fall 1997.
- \* SUNY Geneseo, BIO 104: Human Biology Laboratory (Laboratory Instructor), Spring 1997.

# Student and Postdoctoral Supervision

- \* Undergraduate Independent Study Director: Cristina Alcorta (HU), Jennifer Brawn (HU), Charlotte Lane (HU), Alison Liou (HU), Amanda Papakyrikos (Wellesley College), Teresa Yang (HU), John Zermeno (HU)
- \* Undergraduate Honors Thesis Advisor: Amanda Papakyrikos (Wellesley College B.S. 2014), John Zermeno (Harvard University A.B. 2009), Georgia Rolls (Griffith University, 2021-2023)
- \* Primary Graduate Student Supervisor: Emma Sudron (Griffith University, 2022-ongoing), Maya Bharatiya (Griffith University, 2021-ongoing), Katherine Carter (2011-2016; Harvard University Ph.D. 2016), Daniel Green (2009-2016; Harvard University Ph.D. 2017)
- \* Graduate Student Thesis Committee Member: Edgar Huerta (University of California, Davis, ongoing), Hannah James (ANU Ph.D. 2021), David McGahan (Griffith University, ongoing), Holly Smith (Griffith University, 2018-2021); Katherine Zink (Harvard University Ph.D. 2013)
- \* Postdoctoral Supervisor: Janaina Ávila (2020-2021, 2024-ongoing), Anne Bonnin (2010), Alexandra Houssaye (2010-2011), Akiko Kato (2010-2011), Vincent Lazzari (2008), Adeline Le Cabec (2011-2014), Joane Pouech (2009-2010), Nancy Tang (2011-2014), Petra Vaiglova (2022-2023)

### **Institutional Service**

- \* GU, AEL Equity, Diversity and Inclusion Committee, 2024-ongoing.
- \* GU, ARCHE Adjunct Committee, 2022-2023.
- \* GU, GCSCR Internal Grant Review Committee, 2022.
- \* GU, HLSS Research Committee, 2021-2022.
- \* GU, AEL Representative to the University Pride Committee, 2021-2022.
- \* GU, Office for Research Panelist for Applying for Strategic Awards Seminar, 2021.
- \* GU, GCSCR Leadership Committee, 2020-2023.
- \* GU, HLSS Equity Champion, 2020-2021.
- \* GU, AEL External Grant Review Assessor, 2020.
- \* GU, Gender Equity Research Network (GERN) Advisor, 2020.
- \* GU, AEL Internal Grant Review Committee, 2019.
- \* GU, Office for Research Internal Team Research Seminar, 2018.
- \* GU, School of Environment and Science STEM Futures Day Presenter, 2018.
- \* GU, ARCHE Representative to GSC Research Committee, 2018.
- \* GU, ARCHE Administrative Officer Search Committee, 2018.
- \* GU, ARCHE MOOC A Question of Time Co-Developer, 2017.
- \* GU, NTEU Appointed Representative to the University Equity Committee, 2017-2021.
- \* GU, ARCHE N55 Laboratory Supervisory Committee, 2017-2021.
- \* GU, ARCHE Teaching Program Development Committee, 2016-2017.
- \* UCB, Opportunities for Postdoc Equity Networking (OPEN) Program Speaker, 2016.
- \* UCB, Integrative Biology (IB) Women in Science Program Speaker, 2016.
- \* HU, Women, Gender, and Sexuality Program Standing Committee, 2015.
- \* HU, Women in STEM Mentoring Program Speaker, 2015.
- \* HU, HEB Professional Development Presentation on Mentoring, 2015.

- \* HU, HEB Weekly Departmental Seminar Coordinator, 2014-2015.
- \* HU, Standing Committee on Women, 2012-2015.
- \* HU, Co-Organizer and Moderator for Film Screening and Panel Discussion, Harvard Divinity School, 2014.
- \* HU, Radcliffe Institute Junior Faculty Group Leader, 2013-2014.
- \* HU, New Faculty Institute, Panelist for New Faculty Institute Event, 2013.
- \* HU, University Hearing Committee Pool, 2012-2013.
- \* HU, Anthropology Department Faculty Search Committee (external member), 2012-2013.
- \* HU, Professors and Pastries Freshman Meet and Greet Panelist, 2011.
- \* HU, Annual Undergraduate Research Fair Presentation, 2010-2013.
- \* HU, Undergraduate Women's Leadership Project Speaker, 2010.
- \* HU, HEB Primate Behavioral Ecology Faculty Search Committee Member, 2009-2010.
- \* HU, FAS Senior Adviser on Faculty Development and Diversity Consultant, 2009-2010.
- \* HU, HEB Department Website Development Committee, 2008-2013.
- \* HU, HEB Department Seminar Series Co-Chair, 2008-2013.
- \* HU, Pre-Dental Society Faculty Advisor, 2008-2013.
- \* HU, Harvard Museum of Natural History's Evolution Exhibit Consultant, 2009.
- \* HU, Science Mentor Program Career Panelist, 2009.
- \* HU, Currier House Senior Common Room Member, 2008-2015.
- \* HU, Anthropology Department Graduate Curriculum Review Committee, 2008-2009.
- \* HU, FAS New Faculty Women's Luncheon Organizer, 2008.
- \* MPI-EVA, Institute Review Preparation Committee, 2006-2008.
- \* MPI-EVA, Coordinator, Dental Tissues Working Group, 2005-2008.
- \* MPI-EVA, Research Staff Publication Evaluation Committee, 2005-2006.
- \* SBU, Anthropology Department Senator, Graduate Student Organization, 1999-2001, 2002-2004.
- \* SBU Organizer and Chair of the Stony Brook University Women's Leadership Symposium, 2001-2002.
- \* SBU, Vice President, Graduate Student Organization, 2001-2002.
- \* SBU, Executive Committee, University (Faculty) Senate, 2001-2002.
- \* SBU, Speaker of the Senate, Graduate Student Organization, 2001.

## **Professional Service and Memberships**

- \* Australasian Society for Human Biology, Annual Conference Planning Committee Chair, 2021-2023.
- \* Australasian Society for Human Biology Executive Committee Member, 2018-2022.
- \* American Association of Biological Anthropologists' Virtual Program Committee Member, 2020-2022.
- \* Scientific Advisory Panel Member for the Best Australian Science Writing 2021 anthology, 2020-2021.
- \* 32st Annual Meeting of the Australasian Society for Human Biology, Session Chair, Townsville, Australia, 2018.
- \* Dental Anthropology Association, Albert A. Dahlberg Student Prize Committee, Austin, Texas, USA, 2018.
- \* 31st Annual Meeting of the Australasian Society for Human Biology, Session Chair, Ballarat, Australia, 2017.
- \* 17th Annual International Symposium for Dental Morphology, Session Chair, Bordeaux, France, 2017.
- \* 84th Annual Meeting of the American Association of Physical Anthropologists, Session Chair, St. Louis, USA, 2015.
- \* American Association of Physical Anthropologists' Steering Committee Member for Women's Mentoring Workshop, 2013-2014.
- \* American Association of Physical Anthropologists Annual Meeting, Special Session Organizer & Co-Chair, 2011.
- \* Society for Integrative and Comparative Biology DVM Meeting Session Chair, Harvard University, 2010.
- \* International Primatological Society Congress, Student Affairs Workshop Participant, Kyoto, Japan, 2010.
- \* Contributor to San Francisco *Exploratorium Museum* virtual exhibit: "Evidence: How Do We Know What We Know?" Summer 2008, <a href="http://www.exploratorium.edu/evidence">http://www.exploratorium.edu/evidence</a>
- \* Biological Anthropology Women's Mentoring Network Co-Founder & Steering Committee Member, 2008-present.
- \* European Virtual Anthropology Network Contributor for "Human Kind in 3D: In the Focus of Digital Techniques," traveling museum exhibit in Germany, Austria, and France, 2007-2008.
- \* Member of American Association of Physical Anthropologists, American Association of University Women, Association for Women in Science (USA), Australasian Research Cluster for Archaeological Science, Australasian Society for Human Biology, Dental Anthropology Association, Society of Vertebrate Paleontology, Paleoanthropology Society, Women in Technology

### Journals, Books, and Grants Refereed

American Journal of Biological (formerly Physical) Anthropology, American Journal of Clinical Nutrition, American Journal of Human Biology, Anatomical Record, Annals of Human Biology, Anthropological Science, Anthropologischer Anzeiger, Archives of Oral Biology, Asian Perspectives: The Journal of Archaeology for Asia and

the Pacific; Australian Nuclear Science and Technology Organisation (ANSTO); Australian Research Council (ARC), Best Australian Science Writing 2021 Anthology, Biological Journal of the Linnean Society, Chemosphere, Current Anthropology, Current Biology, Dental Anthropology, European Research Council (ERC), Evolutionary Anthropology, Folia Primatologica, Geochimica et Cosmochimica Acta, French National Research Agency (ANR), Graduate Women in Science Fellowships, The Harvard Undergraduate Research Journal, Historical Biology, HOMO - Journal of Comparative Human Biology, International Journal of Primatology, Journal of Anatomy, Journal of Archaeological Science, Journal of Dental Research, Journal of Experimental Biology, Journal of Human Evolution, Journal of Mammalian Evolution, Journal of the Mechanical Behavior of Biomedical Materials, Journal of Morphology, Journal of the Royal Society Interface, Journal of Structural Biology, Journal of Synchrotron Radiation, L.S.B. Leakey Foundation, Microscopy Research and Technique, MIT Press, National Science Foundation (USA), Natural Environment Research Council (UK), Natural Sciences and Engineering Research Council of Canada, Nature, Nature Communications, Nature Ecology and Evolution, PLoS Genetics, PLoS ONE, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society B: Biological Sciences, Quarterly Review of Biology, Rivista Italiana di Paleontologia e Stratigrafia, Science, Science Advances, Science of the Total Environment, Social Sciences and Humanities Research Council (Canada), Swiss National Science Foundation, Springer's Vertebrate Paleobiology and Paleoanthropology Edited Volume Series, South African Journal of Science, University of Toulouse -Toulouse Initiative for Research's Impact on Society program

## Selected Interviews, Media Coverage, and Research Consulting

- \* ABC Radio Sydney live interview on wisdom teeth removal, March 13th, 2024.
- \* ABC Science, "Why do we have wisdom teeth?" March 7th, 2024.
- \* BBC News Crowd Science Podcast "Why do we have wisdom teeth?" February 26th, 2024.
- \* ABC Radio Sydney live interview with Richard Glover, September 4th, 2023.
- \* BBC Science Focus, "5 of the best books on human evolution." August 6th, 2022.
- \* ABC Science, "Who was the first human?" May 22, 2022.
- \* ABC Radio, "Who was the first person? April 24, 2022.
- \* Vox Article, "The Secret Lives of Baby Teeth," January 25, 2022.
- \* ABC Nightlife Radio Program with Phil Clark, "The story of the human body," March 10, 2021.
- \* Leakey Foundation Origins Podcast Interview, March 3, 2021.
- \* Conversations in Human Evolution Interview with Lucy Timbrell, August 11, 2020.
- \* Anthrobiology Podcast, "Teeth," July 23, 2020.
- \* CNN.com: "Ancient humans are having a moment." April 3, 2020.
- \* ABC Afternoons NSW Radio live interview with James Valentine, April 2, 2020.
- \* Science article: "Lucy's baby' suggests famed human ancestor had a primitive brain." April 1, 2020.
- \* The Geneseo Scene (SUNY Geneseo Alumni Magazine): "Toothsayer." March 3, 2020.
- \* ABC Radio Sydney live interview with Richard Glover, Sept. 10, 2019.
- \* New York Times article "What's a 'Normal' Amount of Time to Breastfeed?" Sept. 3, 2019.
- \* Cosmos Magazine article "Virtual Paleontology." vol. 84, 2019, p. 30-36.
- \* Channel 10 Scope TV Program Episode "Life Science," July 14, 2019.
- \* BYU Top of Mind Radio Show and Podcast: "Your teeth are time capsules." Feb. 9, 2019.
- \* ABC Radio Brisbane live interview with Rebecca Levingston, Jan. 20, 2019.
- \* Nature Books in Brief review of The Tales Teeth Tell, vol. 563, 2018, p. 323.
- \* Gastropod Podcast: "The Truth is in the Tooth: Braces, Cavities, and the Paleo Diet." Nov. 19, 2018.
- \* ABC News TV and article: "Neanderthal fossil teeth offer a window into ancient life and climate." Nov. 1, 2018.
- \* National Geographic: "Neanderthal teeth reveal intimate details of daily life." Oct. 31, 2018.
- \* CNN.com: "Earliest discovery of lead exposure found in Neanderthal children." Oct. 31, 2018.
- \* Science article: "Neanderthal children shivered and suffered in ancient Europe." Oct. 31, 2018.
- \* Washington Post article: "Biological anthropologist's book drills down into the scientific mysteries of our choppers." Oct. 20, 2018.
- \* The Weekend Australian Magazine Q & A Feature, September 29, 2018.
- \* The Show About Science Podcast Episode 052: "Baby Teeth with Tanya Smith." March 28, 2018.
- \* Knowable Magazine: "The Truth in Baby Teeth." January 5, 2018.
- \* BBC World News Live TV interview on orangutan nursing study. May 23, 2017.
- \* New York Times: "Nearly a Decade Nursing? Study Pierces Orangutans' Mother-Child Bond." May 17, 2017.
- \* National Geographic: "Orangutans Nurse for a Record-Breaking Amount of Time." May 17, 2017.
- \* NPR (US National Public Radio): "Orangutan Moms Are the Primate Champs of Breast-Feeding." May 17, 2017.
- \* Science News: "Fossil teeth flesh out ancient kids' varied growth rates." Feb. 18, 2015.
- \* Harvard Magazine "Portrait: Tanya Smith." September/October Issue, 2014, p. 19.
- \* Science for the Public interview: "Infant Fossil Teeth: Clues to Ancient Human Development." Dec. 13, 2013.

- \* Discover Magazine article: "The Yawns Have It." July/August Issue, 2013, p. 14.
- \* The New Yorker article: "The Secrets of a Hundred-Thousand-Year-Old Tooth." May 31, 2013.
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