

Curriculum Vitae: Mary T. Silcox

A. **BIOGRAPHICAL INFORMATION**

1. **PERSONAL**

Name: Mary T. Silcox
Birth Date: December 25, 1972

Home address: 50-1850 Kingston Rd., Pickering ON L1V0A2
Home phone: 905-239-5169

University address: Department of Anthropology, University of Toronto Scarborough,
1265 Military Trail, Scarborough, ON M1C1A4
Office phone: (416) 208-5132 (HL 314); (416) 208-2791 (AA 430)
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2. **DEGREES**

PhD 2001 Johns Hopkins University School of Medicine, Department of Cell Biology and
Anatomy, Functional Anatomy and Evolution Program
*A Phylogenetic Analysis of Plesiadapiformes and their Relationship to Euprimates and other
Archontans.* (Supervisor: Dr. Kenneth D. Rose)

BSc 1995 University of Toronto, Double major in Anthropology and Zoology (High distinction)

3. **EMPLOYMENT**

University of Toronto Scarborough, Department of Anthropology (from July 1st, 2012-present)
Department of Social Sciences (July 1 2010 to July 1 2012)
Full Professor 2018-present
Associate Professor 2013- 2018
Assistant Professor 2010-2013
Vice Dean Graduate, UTSC 2016-present
University of Toronto, Department of Anthropology, Graduate faculty (from July 1, 2010)
Granted tenure effective July 1, 2013; promoted to Full Professor effective July 1, 2018

University of Winnipeg, Department of Anthropology
Associate Professor 2006-2010
Assistant Professor 2002-2006
Granted tenure effective July 1 2006

University of Saskatchewan, Department of Geological Sciences
Stipendiary lecturer, 2009
(invited to offer a one week intensive course on Vertebrate Palaeontology for students in the
Paleobiology program)

Pennsylvania State University, Department of Anthropology
Research assistant/Postdoctoral fellow to Dr. Alan C. Walker 2000-2002

4. **PROFESSIONAL AFFILIATIONS AND ACTIVITIES**

Research Associate, Florida Museum of Natural History (2008- present)
Research Associate, Royal Ontario Museum (2012-present)
Adjunct professor, University of Manitoba Dept. of Anthropology (2005-2015)
Adjunct professor, University of Winnipeg Dept. of Biology (2012-2015)
Associate Editor, *Frontiers in Earth Science* (2019-present)
Associate Editor, *Science of Nature* (formerly *Naturwissenschaften*) (2015-present)
Associate Editor, *Journal of Paleontology* (2010-present)
Associate Editor, *Journal of Human Evolution* (2011-2013)
Member, MorphoBank Executive Committee (2018-present)
Member, Editorial Advisory Board, *Vertebrate Paleobiology and Paleoanthropology* book series (Springer; series editors Eric Sargis, Eric Delson; 2010-2015)
Member, Advisory Board, NOW (Neogene of the Old World) database
Society of Vertebrate Paleontology (member; member of Program Committee 2008-2018; Program Committee co-Chair 2014-2017; member, Colbert Prize Committee, 2018)
American Association of Physical Anthropologists (member; member of Program Committee 2014-2015)
Canadian Association of Physical Anthropology (member; co-chair of Planning Committee for 2013 conference)
Palaeoanthropology Society of Canada (member)
Society for the Study of Mammalian Evolution (member)
Canadian Society of Vertebrate Paleontology (member)
European Virtual Anthropology Network (EVAN) Society (member)

B. **ACADEMIC HISTORY**

6. A. **RESEARCH ENDEAVOURS**

2017 Leader of paleontological expedition to the Bighorn Basin to collect Eocene mammals
2013 Co-leader of paleontological expeditions to the Bighorn (with K.D. Rose, A.E. Chew) and Bridger (with J.I. Bloch, D.M. Boyer, G.F. Gunnell) Basins to collect Eocene mammals
2004-2006, 2011, 2012 Member and Co-leader (2006, 2011, 2012; with J.I. Bloch and D.M. Boyer) of joint paleontological expeditions to the Crazy Mountains Basin of Montana to collect Paleocene mammals
1995-1998, 2001, 2003 Member of Johns Hopkins University expeditions (under direction of Dr. Kenneth D. Rose) to the Bighorn Basin of Wyoming to collect Eocene mammals
1998 Member of Duke/Johns Hopkins expedition (under direction of Drs. Kenneth E. Glander and Mark F. Teaford) to Costa Rica to observe/capture Howler Monkeys (*Alouatta palliata*)
1996-2000 Research Assistant for Dr. Kenneth D. Rose, moulding, casting, preparation and cataloguing of fossil vertebrates, setting up a database using Microsoft Access, and performing cladistic analyses for various publications
1996-7 Research Assistant for Drs. Mark F. Teaford and Christopher B. Ruff, Johns Hopkins University School of Medicine, inventory of human archaeological remains and preparation of casts for dental microwear analysis
1993 Member of archaeological field crew (under direction of Dr. H de Lumley) at La Caune de L'Arago, France

B. **RESEARCH AWARDS** (grants, contracts, fellowships) during preceding 5 years (tri-council and NSF funding listed beyond 5 years):

2016-2021 NSERC Discovery Grant "Understanding the evolution of the earliest primates"; total amount of award CAN\$140,000
2017 UTSC International Research Collaboration Fund, CAN\$2500
2016 UTSC Vice Principal Research Competitiveness Fund, CAN\$9972
2016 UTSC Vice Principal Research Impact Fund, CAN\$500

- 2010-2015 NSERC Discovery Grant “Anatomy and Evolution of Stem Primates”; total amount of award CAN\$100,000
- 2014 UTSC Research Recognition Award, CAN\$5000
- 2014 UTSC Vice Principal Research Competitiveness Fund, CAN\$9885
- 2014 UTSC Vice Principal Research Impact Fund, CAN\$500
- 2006-2011 NSF Research Grant “AToL: Collaborative Research: Resolving Mammalian Phylogeny with Genomic and Morphological Approaches” (lead PIs Michael Novacek, Maureen O’Leary; included on the grant as a Co-PI; total grant amount approx. US\$3 million)
- 2005-2010 NSERC Discovery Grant “The evolution and anatomy of the earliest primates”; total amount of award CAN\$77, 500

C. **SCHOLARLY AND PROFESSIONAL WORK**

7. Refereed publications

A. Articles

- 2001 **M.T. Silcox**, D.W. Krause, M.C. Maas, R.C. Fox. New specimens of *Elphidotarsius russelli* (Mammalia, ?Primates, Carpolestidae) and a revision of plesiadapoid relationships. *Journal of Vertebrate Paleontology* 21: 132-152.
- 2001 J.I. Bloch, **M.T. Silcox**. New basicrania of Paleocene-Eocene *Ignacius*: re-evaluation of the plesiadapiform-dermopteran link. *American Journal of Physical Anthropology* 116: 184-198.
- 2002 **M.T. Silcox**, M.F. Teaford. The Diet of Worms: An analysis of mole dental microwear. *Journal of Mammalogy* 83: 804–814.
- 2002 **M.T. Silcox**, K.D. Rose, S. Walsh. New specimens of picromomyids (Plesiadapiformes, ?Primates) with description of a new species of *Alveojunctus*. *Annals of the Carnegie Museum* 71: 1-11.
- 2003 **M.T. Silcox**. New discoveries on the middle ear anatomy of *Ignacius graybullianus* (Paromomyidae, Primates) from ultra high resolution X-ray computed tomography. *Journal of Human Evolution* 44: 73-86.
- 2006 J.I. Bloch, **M.T. Silcox**. Cranial anatomy of Paleocene plesiadapiform *Carpolestes simpsoni* (Mammalia, Primates) using ultra high-resolution X-ray computed tomography, and the relationships of plesiadapiforms to Euprimates. *Journal of Human Evolution* 50: 1-35 (equal authors listed alphabetically)
- 2007 **M.T. Silcox**, D.M. Boyer, J.I. Bloch, E.J. Sargis. Revisiting the adaptive origins of primates (again). *Journal of Human Evolution* 53: 321-324.
- 2007 J.I. Bloch, **M.T. Silcox**, D.M. Boyer, E.J. Sargis. New Paleocene skeletons and the relationship of plesiadapiforms to crown-clade primates. *Proceedings of the National Academy of Sciences, USA* 104: 1159-1164.
- 2007 E.J. Sargis, D.M. Boyer, J.I. Bloch, **M.T. Silcox**. Evolution of Pedal Grasping in Primates. *Journal of Human Evolution* 53: 103-107.
- 2007 F. Spoor, T. Garland Jr., G. Krovitz, T.M. Ryan, **M.T. Silcox**, A. Walker. The primate semicircular canal system and locomotion. *Proceedings of the National Academy of Sciences, USA* 104: 10808–10812.
- 2008 **M.T. Silcox**, K.D. Rose, T.M. Bown. Early Eocene Paromomyidae (Mammalia, Primates) from the southern Bighorn Basin, Wyoming: systematics and evolution. *Journal of Paleontology* 82: 1074–1113.
- 2008 A. Walker, T.M. Ryan, **M.T. Silcox**, E.L. Simons, F. Spoor. The semicircular canal system and locomotion: the case of extinct lemuroids and lorisooids. *Evolutionary Anthropology* 17:135–145.
- 2009 **M.T. Silcox**, C.K. Dalmyrn, J.I. Bloch. Virtual endocast of *Ignacius graybullianus* (Paromomyidae, Primates) and brain evolution in early Primates. *Proceedings of the National Academy of Sciences, USA* 106:10987-92.
- 2009 **M.T. Silcox**, J.I. Bloch, D.M. Boyer, M. Godinot, T.M. Ryan, F. Spoor, A. Walker. Semicircular canal system in early primates. *Journal of Human Evolution* 56: 315-327.

- 2010 **M.T. Silcox**, J.I. Bloch, D.M. Boyer, P. Houde. Cranial anatomy of Paleocene and Eocene *Labidolemur kayi* (Mammalia: Apatotheria) and the relationships of the Apatemyidae to other mammals. *Zoological Journal of the Linnean Society* 160: 773-825.
- 2010 **M.T. Silcox**, A.E. Benham, J.I. Bloch. Endocasts of *Microsyops* (Microsyopidae, Primates) and the evolution of the brain in primitive primates. *Journal of Human Evolution* 58: 505-521.
- 2011 **M.T. Silcox**, C.K. Dalmyrn, A. Hrenchuk, J.I. Bloch, D.M. Boyer, P. Houde. Endocranial morphology of *Labidolemur kayi* (Apatemyidae, Apatotheria) and its relevance to the study of brain evolution in Euarchontoglires. *Journal of Vertebrate Paleontology* 31: 1314-1325.
- 2011 J.L. Schmidt, T.M. Cole III, **M.T. Silcox**. Technical note: A landmark-based approach to the study of the ear ossicles using ultra-high-resolution X-ray computed tomography data. *The American Journal of Physical Anthropology* 145: 665-671.
- 2011 S.D. Armstrong, J.I. Bloch, P. Houde, **M.T. Silcox**. Cochlear labyrinth volume in euarchontoglirans: implications for the evolution of hearing in Primates. *The Anatomical Record* 294: 263-266.
- 2012 T.M. Ryan, **M.T. Silcox**, A. Walker, X. Mao, D.R. Begun, B.R. Benefit, P.D. Gingerich, M. Köhler, L. Kordos, M.L. McCrossin, S. Moyà-Solà, W.J. Sanders, E.R. Seiffert, E. Simons, I.S. Zalmout, F. Spoor. Evolution of locomotion in Anthroipoidea: the semicircular canal evidence. *Proceedings of the Royal Society B* 279: 3467-3475.
- 2012 **M.T. Silcox**, T. E. Williamson. New discoveries of early Paleocene (Torrejonian) primates from the Nacimiento Formation, San Juan Basin, New Mexico. *Journal of Human Evolution* 63: 805-833.
- 2013 M.A. O'Leary, J.I. Bloch, J.J. Flynn, T. J. Gaudin, A. Giallombardo, N.P. Giannini, S.L. Goldberg, B.P. Kraatz, Z.-X. Luo, J. Meng, X. Ni, M.J. Novacek, F.A. Perini, Z.S. Randall, G.W. Rougier, E.J. Sargis., **M.T. Silcox**, N.B. Simmons, M. Spaulding, P.M. Velazco, M. Weksler, J.R. Wible, A. L. Cirranello. The Placental Mammal Ancestor and the Post-K-Pg Radiation of Placentals. *Science* 339: 662-667.
- 2013 M.A. O'Leary, J.I. Bloch, J.J. Flynn, T. J. Gaudin, A. Giallombardo, N.P. Giannini, S.L. Goldberg, B.P. Kraatz, Z.-X. Luo, J. Meng, X. Ni, M.J. Novacek, F.A. Perini, Z.S. Randall, G.W. Rougier, E.J. Sargis., **M.T. Silcox**, N.B. Simmons, M. Spaulding, P.M. Velazco, M. Weksler, J.R. Wible, A. L. Cirranello. Response to Comment on "The Placental Mammal Ancestor and the Post-K-Pg Radiation of Placentals". *Science* 341: 613.
- 2014 **M.T. Silcox**. A Pragmatic Approach to the Species Problem from a Paleontological Perspective. *Evolutionary Anthropology* 23:24-26.
- 2014 **M.T. Silcox**. Primate Origins and the Plesiadapiforms. *Nature Education Knowledge* 5(3):1. (refereed online resource) <http://www.nature.com/scitable/knowledge/library/primate-origins-and-the-plesiadapiforms-106236783> (7 pages)
- 2015 C.L. Manz, S.G.B. Chester, J.I. Bloch, **M.T. Silcox**, E.J. Sargis. New partial skeletons of Palaeocene Nyctitheriidae and evaluation of proposed euarchontan affinities. *Biology Letters* 11: 20140911. <http://dx.doi.org/10.1098/rsbl.2014.0911>.
- 2015 A. Long, J.I. Bloch, **M.T. Silcox**. Quantification of neocortical ratios in stem primates. *American Journal of Physical Anthropology* 157(3): 363-373. DOI: [10.1002/ajpa.22724](https://doi.org/10.1002/ajpa.22724)
- 2015 S. López-Torres, M.A. Schillaci, **M.T. Silcox**. Life history of the most complete fossil primate skeleton: exploring growth models for *Darwinius*. *Royal Society Open Source* 2(9): 150340. DOI: [10.1098/rsos.150340](https://doi.org/10.1098/rsos.150340). <http://rsos.royalsocietypublishing.org/content/2/9/150340.abstract> (15 pages)
- 2015 O. C. Bertrand, M. A. Schillaci, and **M. T. Silcox**. 2015. Cranial dimensions as estimators of body mass and locomotor habits in extant and fossil rodents. *Journal of Vertebrate Paleontology*: e1014905. DOI: [10.1080/02724634.2015.1014905](https://doi.org/10.1080/02724634.2015.1014905). (10 pages)
- 2016 K.A. Prufrock, D.M. Boyer, **M.T. Silcox**. The first major primate extinction: an evaluation of paleoecological dynamics of North American stem primates using a homology free measure of tooth shape. *American Journal of Physical Anthropology* 159:683-97. DOI: [10.1002/ajpa.22927](https://doi.org/10.1002/ajpa.22927)
- 2016 O.C. Bertrand, F. Amador-Mughal, **M.T. Silcox**. Virtual endocasts of *Paramys* (Paramyinae): oldest endocranial record for Rodentia and early brain evolution in Euarchontoglires.

Proceedings of the Royal Society B. 283: 20152316. (8 pages)

<http://dx.doi.org/10.1098/rspb.2015.2316>

- 2016 O.C. Bertrand, **M.T. Silcox**. First virtual endocasts of a fossil rodent: *Ischyromys typus* (Ischyromyidae, Oligocene) and brain evolution in rodents. *Journal of Vertebrate Paleontology* e1095762. DOI: 10.1080/02724634.2016.1096275. (19 pages)
- **this paper was the recipient of the 2017 Taylor and Francis Award for Best Student Paper in the *Journal of Vertebrate Paleontology*, awarded to Dr. Ornella Bertrand
- 2016 K.A. Prufrock, S. López-Torres, **M.T. Silcox**, D.M. Boyer. Surfaces and spaces: methods in the study of dental topography and an application to the question of dietary niche space overlap between North American stem primates and rodents. *Surface Topography: Metrology and Properties* 4: 024005. doi:10.1088/2051-672X/4/2/024005. (19 pages)
- 2016 J.I. Bloch, S.G.B. Chester, **M.T. Silcox**. Cranial anatomy of Paleogene Micromomyidae and implications for early primate evolution. *Journal of Human Evolution* 96: 58-81. doi:10.1016/j.jhevol.2013.04.006
- 2016 D.M. Boyer, E. C. Kirk, **M.T. Silcox**, G.F. Gunnell, C.C. Gilbert, G.S. Yapuncich, K.L. Allen, E. Welch, J. I. Bloch, L. Gonzalez, R.F. Kay, E.R. Seiffert. Internal carotid arterial canal size and scaling in Euarchonta: re-assessing implications for arterial patency and phylogenetic relationships in early fossil primates. *Journal of Human Evolution* 97: 123-144. doi:10.1016/j.jhevol.2016.06.002
- 2016 A.R. Harrington, **M.T. Silcox**, G.S. Yapuncich, D.M. Boyer, J.I. Bloch. First virtual endocasts of adapiform primates. *Journal of Human Evolution* 99: 52-78. doi.10.1016/j.jhevol.2016.06.005
- 2017 O.C. Bertrand, F. Amador-Mughal, **M.T. Silcox**. Virtual endocast of the early Oligocene *Cedromus wilsoni* (Cedromurinae) and brain evolution in squirrels. *Journal of Anatomy* 230: 128 – 151. DOI: 10.1111/joa.12537
- 2017 López-Torres, S., K.R. Selig, K.A. Prufrock, D. Lin, **M.T. Silcox**. Dental topographic analysis of paromyid (Plesiadapiformes, Primates) cheek teeth: More than 15 million years of changing surfaces and shifting ecologies. In (G.F. Gunnell, J.J. Hooker, P.D. Polly, Eds.) 100 years of teeth: Festschrift for Percy Butler. *Historical Biology*. <http://dx.doi.org/10.1080/08912963.2017.1289378> (13 pages)
- 2017 **M.T. Silcox**, J.I. Bloch, D.M. Boyer, S.G.B. Chester, S. López-Torres. The evolutionary radiation of plesiadapiforms. *Evolutionary Anthropology* 26: 74-94.
- 2017 Chester, S.G.B., T.E. Williamson, J.I. Bloch, **M.T. Silcox**, E.J. Sargis. Oldest skeleton of a plesiadapiform provides evidence for an exclusively arboreal radiation of stem primates in the Paleocene. *Royal Society Open Science* 4: 170329. <http://dx.doi.org/10.1098/rsos.170329> (9 pages)
- 2017 **M.T. Silcox**, S. López-Torres. Major questions in the study of primate origins. *Annual Review of Earth and Planetary Sciences*. 45(1): 113-137.
- 2018 Bertrand, O.C., F. Amador-Mughal, M. Lang, **M.T. Silcox**. New virtual endocasts of Eocene Ischyromyidae and their relevance in evaluating neurological changes occurring through time in Rodentia. *Journal of Mammalian Evolution* <https://doi.org/10.1007/s10914-017-9425-6> Published online Jan. 29, 2018.
- 2018 López-Torres, S., **M.T. Silcox**. The European Paromyidae (Primates, Mammalia): taxonomy, phylogeny, and biogeographic implications. *Journal of Paleontology* <https://doi.org/10.1017/jpa.2018.10> Published online May 9, 2018.
- 2018 Bertrand, O.C., F. Amador-Mughal, M. Lang, **M.T. Silcox**. Virtual endocasts of fossil Sciuroidea: Brain size reduction in the evolution of fossoriality. *Palaeontology*. <https://doi.org/10.1111/pala.12378> Published online June 27, 2018.
- 2018 López-Torres, S., **M.T. Silcox**, P.A. Holroyd. New omomyoid (Euprimates, Mammalia) from the late Uintan of Southern California and the question of the extinction of the Paromyidae (Plesiadapiformes, Primates). *Paleontologica Electronica* 21.3.37A: 1-28. <https://doi.org/10.26879/756>
- 2019 Selig, K.R., S. López-Torres, E.J. Sargis, **M.T. Silcox**. First 3D dental topographic analysis of the enamel-dentine junction in non-primate euarchontans: Contribution of the enamel-

- dentine junction to molar morphology. *Journal of Mammalian Evolution* 26: 587-598. DOI: 10.1007/s10914-018-9440-2; published online June 3, 2018.
- 2019 Chester, S.G.B., T.E. Williamson, **M.T. Silcox**, J.I. Bloch, E.J. Sargis. Skeletal morphology of the early Paleocene plesiadapiform *Torrejonia wilsoni* (Euarchonta, Palaechthonidae). *Journal of Human Evolution* 128: 76-92.
- 2019 Burrows, A.M., L.T. Nash, A. Hartstone-Rose, **M.T. Silcox**, S. López-Torres, K.R. Selig. Dental signatures for exudativory in living Primates, with comparisons to other gouging mammals. *Anatomical Record* DOI:10.1002/ar.24048. published in Early View on 19 January, 2019
- 2019 Selig, K.R., E.J. Sargis, **M.T. Silcox**. Three-dimensional geometric morphometric analysis of treeshrew (Scandentia) lower molars: insight into dental variation and taxonomy. *Anatomical Record* DOI: 10.1002/ar.24105 published in Early View on 27 February, 2019
- 2019 Bertrand, O.C., G. San Martin-Flores, M.T. Silcox. Endocranial shape variation in the squirrel-related clade and their fossil relatives using 3D geometric morphometrics: contributions of locomotion and phylogeny to brain shape. *Journal of Zoology* 308: 197-211. doi:10.1111/jzo.12665
- 2019 Selig, K.R., E.J. Sargis, **M.T. Silcox**. The frugivorous insectivores? Functional morphological analysis of molar topography for inferring diet in extant treeshrews (Scandentia). *Journal of Mammalogy*. <https://doi.org/10.1093/jmammal/gyz151> Published online Nov. 1, 2019.
- In press López-Torres, S., K.R. Selig, A.M. Burrows, **M.T. Silcox**. The toothcomb of *Karanisia clarki*—Was this species an exudate-feeder? Invited submission to *Behaviour, Ecology, and Evolutionary Biology of Lorises and Pottos*, edited by K. Anne-Isola Nekaris and Anne M. Burrows. Cambridge University Press.
- In press López-Torres, S., **M.T. Silcox**. What we know (and don't know) about the fossil record of lorises. Invited submission to *Behaviour, Ecology, and Evolutionary Biology of Lorises and Pottos*, edited by K. Anne-Isola Nekaris and Anne M. Burrows. Cambridge University Press.
- In press Burrows, A.M., L.T. Nash, A. Hartstone-Rose, K.R. Selig, **M.T. Silcox**, S. López-Torres. What role did gum-feeding play in the evolution of the lorises? Invited submission to *Behaviour, Ecology, and Evolutionary Biology of Lorises and Pottos*”, edited by K. Anne-Isola Nekaris and Anne M. Burrows. Cambridge University Press.
- Accepted Selig, K.R., S. López-Torres, A. Hartstone-Rose, L.T. Nash, A. Burrows, **M.T. Silcox**. Submitted. A novel method for assessing enamel thickness distribution in the anterior dentition as a signal for gouging and other extractive foraging behaviors in gummivorous mammals. *Folia Primatologica*. Accepted Aug. 19, 2019.

B. Book Chapters

- 2001 **M.T. Silcox**, K.D. Rose. Unusual vertebrate microfaunas from the Willwood Formation, Early Eocene of the Bighorn Basin, Wyoming. Pp. 131-164 In (G.F. Gunnell, Ed.) *Eocene Biodiversity: Unusual Occurrences and Rarely Sampled Habitats*. New York: Plenum Press.
- 2005 **M.T. Silcox**, J.I. Bloch, E.J. Sargis, D.M. Boyer. Euarchonta. Pp. 127-144 In (K.D. Rose and J.D. Archibald, Eds.), *The Rise of Placental Mammals: Origins and Relationships of the Major Extant Clades*. Baltimore: Johns Hopkins University Press.
- 2007 **M.T. Silcox**. Primate taxonomy, plesiadapiforms, and approaches to primate origins. Pp. 143-178 In (M.J. Ravosa and M. Dagosto, Eds.) *Primate Origins: Adaptations and Evolution*. New York: Plenum Press.
- 2007 **M.T. Silcox**, E.J. Sargis, J.I. Bloch, D.M. Boyer. Primate origins and supraordinal relationships: morphological evidence. Pp. 831-859 In (W. Henke and I. Tattersall, Eds.) *Handbook of Palaeoanthropology, vol. 2: primate evolution and human origins*. New York: Springer-Verlag.
- 2008 **M.T. Silcox** and G.F. Gunnell. Plesiadapiformes. Pp. 207-238 In (C.M. Janis, G.F. Gunnell, and M.D. Uhen, Eds.) *Evolution of Tertiary Mammals of North America Vol. 2: Marine Mammals and Smaller Terrestrial Mammals*. Cambridge: Cambridge University Press.

- 2008 G.F. Gunnell, **M.T. Silcox**. Archonta. Pp. 161-173 In (C.M. Janis, G.F. Gunnell, and M.D. Uhen, Eds.) *Evolution of Tertiary Mammals of North America Vol. 2: Marine Mammals and Smaller Terrestrial Mammals*. Cambridge: Cambridge University Press.
- 2008 **M.T. Silcox**. The Biogeographic origins of primates and euprimates: East, West, North, or South of Eden? Pp. 199-231 In (E.J. Sargis and M.J. Dagosto, Eds.) *Mammalian evolutionary morphology: a tribute to Frederick S. Szalay*. New York: Springer-Verlag.
- 2010 G.F. Gunnell, **M.T. Silcox**. Primate origins—the early Cenozoic fossil record. Pp. 275-294 In (C.S. Larson, Ed.) *A Companion to Biological Anthropology*. Malden, MA: Wiley-Blackwell.
- 2013 **M.T. Silcox**. Primate origins. Pp. 339-357 In (D. Begun, Ed.) *A Companion to Paleoanthropology*. Malden, MA: Wiley-Blackwell.
- 2015 **M.T. Silcox**, E.J. Sargis, J.I. Bloch, D.M. Boyer. Primate Origins and Supraordinal Relationships: Morphological Evidence. Pp. 1053-1081 In (W. Henke and I. Tattersall, Eds.) *Handbook of Palaeoanthropology*, 2nd edition. [DOI 10.1007/978-3-642-39979-4_29_1053](https://doi.org/10.1007/978-3-642-39979-4_29_1053)
8. Non-Refereed Publications
- 1999 **M.T. Silcox**. Review of Paléobiologie et évolution des mammifères Paléogènes: volume jubilaire en hommage à Donald E. Russell (Paleobiology and Evolution of Paleogene Mammals: jubilee volume in honor of Donald E. Russell), edited by M. Godinot and P. D. Gingerich, 1996. *Journal of Vertebrate Paleontology*, 19: 801-3.
- 1999 K.D. Rose, **M.T. Silcox**. Primate evolution at the SVP. *Evolutionary Anthropology* 8: 5-6.
- 2002 **M.T. Silcox**. Paleoprimateology at the Society of Vertebrate Paleontology. *Evolutionary Anthropology* 11: 1-3.
- 2002 **M.T. Silcox**. Primate Origins and Adaptations: a multidisciplinary perspective. *Evolutionary Anthropology* 11: 171-2.
- 2003 **M.T. Silcox**. Review of The Primate Fossil Record, edited by W.C. Hartwig, 2002. *Paleontologica Electronica* 6(1) (published online at <http://palaeo-electronica.org/toc.htm>)
- 2007 **M.T. Silcox**. Review of The Hunt for the Dawn Monkey: Unearthing the origins of monkeys, apes and humans, by Chris Beard, 2004. *American Journal of Physical Anthropology* 132: 323-324.
- 2017 **M.T. Silcox**. Plesiadapiform. In (A. Fuentes Ed.), *International Encyclopedia of Primatology*. [DOI: 10.1002/9781119179313.wbprim0038](https://doi.org/10.1002/9781119179313.wbprim0038) (2 pages)
- 2017 **M.T. Silcox**. Purgatorius. In (A. Fuentes Ed.), *International Encyclopedia of Primatology*. [DOI: 10.1002/9781119179313.wbprim0037](https://doi.org/10.1002/9781119179313.wbprim0037) (2 pages)
2018. **M.T. Silcox**. Tooth and Nail: who were the earliest primates? *Natural History*: 4-6.
9. Manuscripts/publications, etc. in preparation and submitted to publishers but not yet accepted.
- Silcox, M.T.**, G.F. Gunnell, J.I. Bloch. In revision. Cranial anatomy of middle Eocene *Microsyops annectens* and the relationship of microsyopids to other mammals. Submitted to *Journal of Paleontology* Aug. 23, 2019; reviews received October 4, 2019, Revision required.
- Ward, D.L., E. Pomeroy, L. Schroeder, T.B. Viola, **M.T. Silcox**, J.T. Stock. Submitted. Can Bony Labyrinth Dimensions Predict Biological Sex in Archaeological Samples? Submitted to *Journal of Archaeological Science: Reports* Aug. 27, 2019.
- Selig, K.R., E.J. Sargis, S.G.B. Chester, **M.T. Silcox**. Submitted. Using three-dimensional geometric morphometric and dental topographic analyses to infer the systematics and paleoecology of fossil treeshrews (Mammalia, Scandentia). Submitted to *Journal of Paleontology* Sept. 12, 2019.
10. Papers presented at meetings and symposia.
- 1996 **M.T. Silcox** and K.D. Rose. Remarkable new microfaunal assemblages from the early Eocene of the Bighorn Basin, Wyoming. *Journal of Vertebrate Paleontology*. 16 (supp. to No. 3): 66A. Poster, Society of Vertebrate Paleontology annual meetings, New York, NY.

- 1997 **M.T. Silcox** and K. D. Rose. Stasis and gradual change in *Diacodexis* from the early Eocene of the Bighorn Basin, Wyoming. *Journal of Vertebrate Paleontology*. 17 (suppl. to No. 3): 76A. Platform Presentation, Society of Vertebrate Paleontology annual meetings, Chicago IL
- 1998 **M.T. Silcox** and K.D. Rose. Unusual vertebrate microfaunas from the Willwood Formation, Early Eocene of the Bighorn Basin, Wyoming. *Journal of Vertebrate Paleontology*. 18 (suppl. to No. 3): 78A. Invited syposium presentation, Society of Vertebrate Paleontology annual meetings, Snowbird, UT.
- 1999 **M.T. Silcox** and M.F. Teaford. The Diet of Worms: An analysis of mole microwear and its relevance to dietary inference in primates and other mammals. *American Journal of Physical Anthropology*. Supplement 28: 251. Poster, American Association of Physical Anthropologists annual meetings, Columbus OH.
- 1999 **M.T. Silcox** and M.F. Teaford. "Let them eat worms": an analysis of mole microwear and its relevance to dietary inference in fossil mammals. *Journal of Vertebrate Paleontology*, 19 (suppl. to 3): 76A. Poster, Society of Vertebrate Paleontology annual meetings, Denver CO.
- 2000 J.I. Bloch, **M.T. Silcox**, and P. Houde. New ear region of *Ignacius graybullianus*. *American Journal of Physical Anthropology*. Supplement 30: 108. Poster, American Association of Physical Anthropologists annual meetings, San Antonio TX.
- 2001 **M.T. Silcox**. A phylogenetic analysis of Plesiadapiformes and their relationship to Euprimates and other archontans. *Journal of Vertebrate Paleontology* 21 (suppl. to No. 3): 101A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Bozeman MT.
- 2001 **M.T. Silcox**. Primate Taxonomy, Plesiadapiforms and Approaches to Primate Origins. International Conference on Primate Origins and Adaptations: A Multidisciplinary Perspective, Chicago IL December 13-15.
- 2002 J.I. Bloch, **M.T. Silcox**, and E. J. Sargis. Origin and Relationships of Archonta (Mammalia, Eutheria): re-evaluation of Eudermoptera and Primatomorpha. *Journal of Vertebrate Paleontology* 22 (suppl. to No. 3): 37A. Invited syposium presentation, Society of Vertebrate Paleontology annual meetings, Norman OK.
- 2002 **M.T. Silcox**. The phylogeny and taxonomy of plesiadapiforms. *American Journal of Physical Anthropology* Supplement 34: 141-2. Platform presentation, American Association of Physical Anthropologists annual meetings, Buffalo NY.
- 2003 J.I. Bloch and **M.T. Silcox**. Comparative cranial anatomy and cladistic analysis of Paleocene primate *Carpolestes simpsoni* using ultra high resolution X-ray computed tomography. *American Journal of Physical Anthropology* 120(S1): 68. Poster, American Association of Physical Anthropologists annual meetings, Tempe AZ.
- 2003 **M.T. Silcox**. New discoveries on the middle ear anatomy of the Paromomyidae (Mammalia, Primates) from ultra high resolution X-ray computed tomography. *American Journal of Physical Anthropology* 120(S1):191-2. Poster, American Association of Physical Anthropologists annual meetings, Tempe AZ.
- 2003 **M.T. Silcox** and J.I. Bloch. Reconstruction of ear ossicles in extant and extinct mammals using ultra high resolution X-ray computed tomography. *Journal of Vertebrate Paleontology* 23 (suppl. to 3): 97A. Poster, Society of Vertebrate Paleontology annual meetings, St. Paul MN.
- 2003 A. Walker, **M.T. Silcox**, J.I. Bloch, F.S. Spoor, and G.E. Krovitz, The semicircular canals of plesiadapiform primates and their functional significance. *Journal of Vertebrate Paleontology*. 23 (suppl. to 3): 107A. Platform presentation, Society of Vertebrate Paleontology annual meetings, St. Paul MN
- 2004 **M.T. Silcox**, K.D. Rose, and T.M. Bown. Early Eocene Paromomyidae (Mammalia, Primates) from the Southern Bighorn Basin (Willwood Formation, Wasatchian NALMA, Wyoming): Taxonomy, Variation, and Evolution. *Journal of Vertebrate Paleontology* 24(suppl. to 3): 113A. Poster, Society of Vertebrate Paleontology annual meetings, Denver CO.
- 2004 G. McCullough, **M.T. Silcox**, J.I. Bloch, D.M. Boyer and D.W. Krause. New palaeochthonids (Mammalia, Primates) from the Paleocene of the Crazy Mountains Basin, Montana. *Journal of Vertebrate Paleontology* 24(suppl. to 3): 91A. Poster, Society of Vertebrate Paleontology annual meetings, Denver CO.

- 2004 D.M. Boyer, J.I. Bloch, **M.T. Silcox**, and P.D. Gingerich. New observations on the anatomy of *Nannodectes* (Mammalia, Primates) from the Paleocene of Montana and Colorado. *Journal of Vertebrate Paleontology* 24(suppl. to 3): 40A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Denver CO.
- 2004 J.I. Bloch, D.M. Boyer, **M.T. Silcox**, and P. Houde. New skeletons of Paleocene-Eocene *Labidolemur kayi* (Mammalia, Apatemyidae): Ecomorphology and relationship of apatemyids to Primates and other mammals. *Journal of Vertebrate Paleontology* 24(suppl. to 3): 40A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Denver CO.
- 2004 **M.T. Silcox** and J.I. Bloch. Reconstruction of ear ossicles from the most primitive primate cranium known using ultra high resolution computed tomography. *American Journal of Physical Anthropology* 123(S38): 182. Poster, American Association of Physical Anthropologists annual meetings, Tampa FL.
- 2004 J.I. Bloch, **M.T. Silcox**, D.M. Boyer, and E.J. Sargis. New hypothesis of primate supraordinal relationships and its bearing on competing models of primate origins: a test from the fossil record. *American Journal of Physical Anthropology*. 123(S38): 64. Platform presentation, American Association of Physical Anthropologists annual meetings, Tampa FL
- 2004 A. Walker, G.E. Krovitz, **M.T. Silcox**, E.L. Simons, and F.S. Spoor. The semicircular canals of subfossil lemurs and their functional significance. *American Journal of Physical Anthropology* 123(S38): 202. Platform presentation, American Association of Physical Anthropologists annual meetings, Tampa FL
- 2005 E.J. Sargis, J.I. Bloch, D.M. Boyer, and **M.T. Silcox**. Evolution of grasping in Euarchonta. *Journal of Vertebrate Paleontology* 25(suppl. to 3): 109A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Mesa, AZ.
- 2005 **M.T. Silcox**. Changing paradigms in the study of Primate Origins. Platform presentation, the Canadian Association of Physical Anthropology annual meetings, Winnipeg MB.
- 2005 R. ten Bruggencate, **M.T. Silcox**, and J.I. Bloch. From Dawn 'til Dusk? : The activity pattern of *Carpolestes simpsoni*. Poster , the Canadian Association of Physical Anthropology annual meetings, Winnipeg MB.
- 2005 N.L. Shykoluk and **M.T. Silcox**. A measurement error study using small-bodied insectivoran m2 dimensions. Poster , the Canadian Association of Physical Anthropology annual meetings, Winnipeg MB
- 2006 **M.T. Silcox** and J.I. Bloch. Upper incisor evolution in plesiadapiform primates. *American Journal of Physical Anthropology*. Supplement 42: 165. Platform presentation, American Association of Physical Anthropologists annual meetings, Anchorage, AK.
- 2006 **M.T. Silcox**. The affinities of *Asioplesiadapis youngi*: the most primitive Asian primate? *Journal of Vertebrate Paleontology* 26(suppl. to 3): 125A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Ottawa ON.
- 2007 **M.T. Silcox**, J.I. Bloch, D.M. Boyer, and P. Houde. Cranial anatomy of *Labidolemur kayi* and the relationships of the Apatemyidae. *Journal of Vertebrate Paleontology* 27(suppl. to 3): 147A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Austin, TX.
- 2007 **M.T. Silcox**. The biogeographic origins of Primates and Euprimates: east, west, north, or south of Eden? *American Journal of Physical Anthropology* Supplement 44: 218. Poster, American Association of Physical Anthropologists annual meetings, Philadelphia PA.
- 2007 F. Spoor, T. Garland, G. Krovitz, T.M. Ryan, **M.T. Silcox**, and A. Walker. 2007. Primate locomotion and the semicircular canal system. *American Journal of Physical Anthropology Supplement* 44: 223. Platform presentation, American Association of Physical Anthropologists annual meetings, Philadelphia PA.
- 2007 **M.T. Silcox**, C.K. Dalmyn, and J.I. Bloch. 2007. The endocast of *Ignacius graybullianus* and the evolution of the brain in Primates. Platform presentation, the Manitoba Paleontological Symposium, Morden MB.
- 2008 **M.T. Silcox**, C.K. Dalmyn, J.I. Bloch. The endocast of *Ignacius graybullianus* and brain evolution in early primates. *Journal of Vertebrate Paleontology* 28(suppl. to 3): 143A. Invited symposium presentation, Society of Vertebrate Paleontology annual meetings, Cleveland, OH.

- 2008 M. Novacek and **AToL Mammal Morphology team***. A team-based approach yields a new matrix of 4,500 morphological characters for mammalian phylogeny. *Journal of Vertebrate Paleontology* 28(suppl. to 3): 121A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Cleveland, OH. *I am a member of this team.
- 2008 Co-convended (with Grant Hurlburt) a symposium entitled “New directions in the study of fossil endocasts: a symposium in honour of Harry J. Jerison” at the 2008 Society of Vertebrate Paleontology Annual Meetings in Cleveland, Ohio
- 2008 **M.T. Silcox**, C.K. Dalmy, and J.I. Bloch. Brain evolution in early primates and the endocast of *Ignacius graybullianus*. Platform presentation, the Canadian Association of Physical Anthropology annual meetings, Hamilton ON.
- 2008 **M.T. Silcox**, J.I. Bloch, D.M. Boyer, M. Godinot, T.M. Ryan, F. Spoor, and A. Walker. The semicircular canal system in early primates from the Paleocene and Eocene of North America and Europe. Platform presentation, the Canadian Paleontology Conference, Winnipeg MB.
- 2009 J.I. Bloch, **M.T. Silcox**, S.G.B. Chester, and G.F. Gunnell. New observations on the cranial anatomy of Paleogene Micromomyidae (Mammalia, Primates) from the Clarks Fork Basin, Wyoming. *Journal of Vertebrate Paleontology* 29(suppl. to 3): 66A. Poster, Society of Vertebrate Paleontology annual meetings, Bristol U.K.
- 2009 **M.T., Silcox**, A.E. Benham, and J.I. Bloch. 2009. The endocast of *Microsyops annectens* (Microsyopidae, Primates) and brain evolution in stem primates. *American Journal of Physical Anthropology* Supplement 48: 372. Poster, American Association of Physical Anthropologists annual meetings, Chicago IL.
- 2009 J.L. Schmidt, **M.T. Silcox**, and T.M. Cole III. 2009. A landmark based approach to the study of the ear ossicles using ultra high resolution X-ray computed tomography data. *American Journal of Physical Anthropology* Supplement 48: 355. Poster, American Association of Physical Anthropologists annual meetings, Chicago IL.
- 2009 **M.T. Silcox**, A.E. Benham, and J.I. Bloch. First known endocasts of *Microsyops annectens* and the evolution of the brain in primitive primates. Platform presentation, the Canadian Association of Physical Anthropology Annual Meetings, Vancouver BC.
- 2009 S. Armstrong, **M.T. Silcox**, and J.I. Bloch. Cochlear labyrinth volume in non-primate euarchotogirans versus primates. Poster, the Canadian Association of Physical Anthropology Annual Meetings, Vancouver BC.
- 2009 M.T. Silcox, J.I. Bloch, D.M. Boyer, P. Houde, C.K. Dalmy, and S. Armstrong. Understanding the Apatemyidae: paleoecology and evolution of an enigmatic family of extinct mammals. Platform presentation, the Manitoba Paleontological Symposium, Morden MB.
- 2010 Co-convended (with Judith Masters and Nancy Stevens) a symposium entitled “Alternative views on the origins and early evolution of Primates” at the 2010 International Primatological Society Congress in Kyoto, Japan.
- 2010 **M.T. Silcox**, A.E. Benham, C.K. Dalmy, and J.I. Bloch. The brains of the earliest primates: endocasts and the question of primate brain size increase. Invited symposium presentation at the International Primatological Congress, Kyoto, Japan.
- 2010 J.I. Bloch, **M.T. Silcox**, D.M. Boyer and E.J. Sargis. The origin and evolution of the first primate radiation: new evidence from the fossil record. Invited symposium presentation at the International Primatological Congress, Kyoto, Japan.
- 2010 **M.T. Silcox**, C.K. Dalmy, A. Hrenchuk, J.I. Bloch, and D.M. Boyer. Endocranial anatomy of *Labidolemur kayi* and its relevance to the evolution of the brain in Euarchontoglires. *Society of Vertebrate Paleontology 2010 Program and Abstracts*: 165A. Poster, Society of Vertebrate Paleontology annual meetings, Pittsburgh PA.
- 2010 J.I. Bloch, Z. Randall, **M.T. Silcox**, S.G.B. Chester, and D.M. Boyer. Distal phalanges of Eocene North American notharctines (Mammalia, Primates): implications for primate and anthropoid origins. *Society of Vertebrate Paleontology 2010 Program and Abstracts*: 60A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Pittsburgh PA.
- 2010 A. Giallombardo and **AToL Mammal Morphology team***. Postcanine teeth homologies in Mammalia. *Society of Vertebrate Paleontology 2010 Program and Abstracts*: 96A.

- Platform presentation, Society of Vertebrate Paleontology annual meetings, Pittsburgh PA. *I am a member of this team.
- 2010 Y. Carter, Y., and **M.T. Silcox**. Auditory functional analysis: lessons from the primate auditory ossicles. *FASEB Journal* 24 (Meeting abstract supplement): 449.7. Poster, American Association of Anatomists meeting, Anaheim CA.
- 2011 S.G.B. Chester, J.I. Bloch, E. Sargis, **M.T. Silcox**, T.E. Williamson. Arboreality in palaeotheriid plesiadapiforms (Mammalia, Primates): new evidence from a partial skeleton of early Paleocene *Torrejonia wilsoni*. *Society of Vertebrate Paleontology 2011 Program and Abstracts*: 87A. Platform presentation, Society of Vertebrate Paleontology annual meetings, Las Vegas NV.
- 2011 D.M. Boyer, **M.T. Silcox**, J.I. Bloch, M. Coleman, T. Dobrota. New skull and associated postcrania of *Ignacius graybullianus* (Mammalia, ?Primates) from the Eocene of Wyoming. *Society of Vertebrate Paleontology 2011 Program and Abstracts*: 76A. Poster, Society of Vertebrate Paleontology annual meetings, Las Vegas NV.
- 2011 **M.T. Silcox** and T.E. Williamson. Early Paleocene Primates from the San Juan Basin: new insights into the first chapters of primate evolution. Platform presentation, the Canadian Association of Physical Anthropology Annual Meetings, Montreal, QC.
- 2012 **M.T. Silcox**, S. López-Torres, J.I. Bloch. Understanding Early Primate Brain Evolution: progress and ongoing problems. Platform presentation, the Canadian Paleontology Conference, Toronto ON.
- 2012 **M.T. Silcox**, J.I. Bloch, G.F. Gunnell. Cranial anatomy of Paleogene Microsypidae (Mammalia, Euarchonta) and its relevance to understanding euarchontan relationships. *Society of Vertebrate Paleontology 2012 Program and Abstracts*: 172. Poster at 2012 Society of Vertebrate Paleontology Meetings, Raleigh NC
- 2012 T.E. Williamson, **M.T. Silcox**. New discoveries of primates from the early Paleocene Nacimiento Formation (Torrejonian NALMA), San Juan Basin, New Mexico: a window on the first primate adaptive radiation. *Society of Vertebrate Paleontology 2012 Program and Abstracts*: 194. Platform presentation 2012 Society of Vertebrate Paleontology Meetings. , Raleigh NC
- 2012 C.L. Manz, J.I. Bloch, **M.T. Silcox**. Basicranial morphology of Paleogene Nyctitheriidae (Mammalia, Eulipotyphla?) and evidence for eulipotyphlan affinities. *Society of Vertebrate Paleontology 2012 Program and Abstracts*: 134. Platform presentation 2012 Society of Vertebrate Paleontology Meetings. , Raleigh NC
- 2012 H. Kristjanson, K. Prufrock, **M.T. Silcox**. Body mass and shearing quotients of Microsypidae (Mammalia, Primates) from the Early Eocene, Bighorn Basin WY (Wasatchian, NALMA): paleoecological implications for diet. *Society of Vertebrate Paleontology 2012 Program and Abstracts*: 123-4. Poster at 2012 Society of Vertebrate Paleontology Meetings, Raleigh NC.
- 2012 S. López-Torres, **M.T. Silcox**, J.I. Bloch. Patterns of encephalization in the early evolution of Primates. *Society of Vertebrate Paleontology 2012 Program and Abstracts*: 130. Poster at 2012 Society of Vertebrate Paleontology Meetings, Raleigh NC
- 2012 V.A. Sadowska, I. Morrison, **M.T. Silcox**. Comparing impression materials for dental microwear analysis in a small fossil mammal. *Society of Vertebrate Paleontology 2012 Program and Abstracts*: 164. Platform presentation 2012 Society of Vertebrate Paleontology Meetings, Raleigh NC
- 2013 **M.T. Silcox**, S. López-Torres, J.I. Bloch, D.M. Boyer. Understanding early brain evolution in primates. Platform presentation, 10th International Congress of Vertebrate Morphology, Barcelona Spain.
- 2013 S. López-Torres, **M.T. Silcox**. Cladistic analysis of the European Paromomyidae (Primates, Mammalia). Poster presentation, 10th International Congress of Vertebrate Morphology, Barcelona Spain.
- 2013 O. Bertrand, **M.T. Silcox**. *Ischyromys typus* (Rodentia, Ischyromyidae) : encephalization quotient estimation and the ecological habits of early rodents. *Society of Vertebrate Paleontology 2013 Program and Abstracts*: 86. Poster at 2013 Society of Vertebrate Paleontology Meetings, Los Angeles CA.

- 2013 A. Harrington, **M.T. Silcox**, J.I. Bloch.. First virtual endocast of an Eocene North American adapiform primate. *Society of Vertebrate Paleontology 2013 Program and Abstracts*: 138-9. Poster at 2013 Society of Vertebrate Paleontology Meetings, Los Angeles CA.
- 2013 S. López-Torres, **M.T. Silcox**. Phylogenetic relationships of the European Paromomyidae (Primates, Mammalia) and their biogeographic implications. *Society of Vertebrate Paleontology 2013 Program and Abstracts*: 164. Poster at 2013 Society of Vertebrate Paleontology Meetings, Los Angeles CA.
- 2013 K. Prufrock, **M.T. Silcox**. Phalangeriform models for the estimation of body mass in stem primates. *Society of Vertebrate Paleontology 2013 Program and Abstracts*: 194. Poster at 2013 Society of Vertebrate Paleontology Meetings, Los Angeles CA.
- 2013 O.C. Bertrand, **M.T. Silcox**. *Ischyromys typus* (Rodentia, Ischyromyidae): its relevance in understanding primate brain evolution. Poster presentation, Canadian Association of Physical Anthropology 41st Annual Meetings, Toronto ON.
- 2013 A. Long, J.I. Bloch, M.T. Silcox. Neocortical ratios in stem primates and their importance for understanding primate brain evolution. Poster presentation, Canadian Association of Physical Anthropology 41st Annual Meetings, Toronto ON.
- 2013 S. López-Torres, M.A. Schillaci, **M.T. Silcox**. Life history of the most complete fossil primate skeleton: exploring growth models for *Darwinius*. Platform presentation, Canadian Association of Physical Anthropology 41st Annual Meetings, Toronto ON.
- 2013 K. Prufrock, **M.T. Silcox**. Phalangeriform marsupials as models for the study of body mass in primitive primates. Poster presentation, Canadian Association of Physical Anthropology 41st Annual Meetings, Toronto ON.
- 2014 **M.T. Silcox**, J.I. Bloch. Getting back to basics: a virtual dissection of the cranium of *Microsyops annectens* using microCT. *The Paleontological Society Special Publications* 13: 174. Invited talk in a symposium at 10th North American Paleontological Convention, Gainesville FL.
- 2014 A.R. Harrington, **M.T. Silcox**, J.I. Bloch. Reconstructing the virtual endocasts of two Eocene primates from high resolution X-ray computed tomography data. *The Paleontological Society Special Publications* 13: 175. Invited talk in a symposium at 10th North American Paleontological Convention, Gainesville FL.
- 2014 O.C. Bertrand, **M.T. Silcox**. *Ischyromys typus*: first virtual endocast of a fossil rodent. *The Paleontological Society Special Publications* 13: 175-6. Invited talk in a symposium at 10th North American Paleontological Convention, Gainesville FL.
- 2014 **M.T. Silcox**, J.I. Bloch. Virtual dissection of the cranium of *Microsyops annectens* (Mammalia, Euarchonta) using microCT data. Platform presentation, the Canadian Paleontology Conference, Montreal, QC.
- 2014 S. López-Torres, **M.T. Silcox**. The impact of fossils on likelihood estimates of the biogeographic origins of major primate clades. *Society of Vertebrate Paleontology 2014 Program and Abstracts*: 170. Poster at 2014 Society of Vertebrate Paleontology Meetings, Berlin, Germany.
2014. O. Bertrand, F. Amador-Mughal, **M.T. Silcox**. Virtual Endocast of *Paramys delicatus* (Rodentia, Ischyromyidae) and brain evolution in early rodents. *Society of Vertebrate Paleontology 2014 Program and Abstracts*: 91. Podium presentation at 2014 Society of Vertebrate Paleontology Meetings, Berlin, Germany.
2014. **M.T. Silcox**, K.D. Rose, A.E. Chew. Early Eocene microsyopine microsyopids (Mammalia, Primates) from the Southern Bighorn Basin, Wyoming: evidence for cladogenetic speciation and evolutionary response to climate change. *Society of Vertebrate Paleontology 2014 Program and Abstracts*: 230. Podium presentation at 2014 Society of Vertebrate Paleontology Meetings, Berlin, Germany.
- 2015 A. R. Harrington, **M.T. Silcox**, G.S. Yapuncich D.M. Boyer, J.I. Bloch. First virtual endocasts of North American adapiform primates. *American Journal of Physical Anthropology* 156, Issue Supplement S60: 159-160. Poster Presentation at 2015 American Association of Physical Anthropology Meetings, St. Louis MO.
- 2015 S. López-Torres, **M.T. Silcox**. The biogeographic origin of major primate clades. *American Journal of Physical Anthropology* 156, Issue Supplement S60: 206-207. Poster Presentation at 2015 American Association of Physical Anthropology Meetings, St. Louis MO.

- 2015 K.A. Prufrock , D.M. Boyer **M.T. Silcox**. The first major primate extinction: Testing competitive exclusion in the fossil record of North American stem primates using dental topography. *American Journal of Physical Anthropology* 156, Issue Supplement S60: 257-8. Poster Presentation at 2015 American Association of Physical Anthropology Meetings, St. Louis MO.
- 2015 **M.T. Silcox**, K.D. Rose, A.E. Chew. Microsypids from the Early Eocene of the Southern Bighorn Basin, Wyoming: evolutionary insights from the largest stratigraphically controlled sample of stem primates. *American Journal of Physical Anthropology* 156, Issue Supplement S60: 288. Poster Presentation at 2015 American Association of Physical Anthropology Meetings, St. Louis MO.
- 2015 **M. T. Silcox**, R. Dunn, K. Kumar, R. Rana, A. Sahni, T. Smith, K. Rose. An exceptionally well preserved primate petrosal from the Early Eocene of India. *Society of Vertebrate Paleontology 2015 Program and Abstracts*: 213. Podium presentation at 2015 Society of Vertebrate Paleontology Meetings, Dallas, TX USA.
- 2015 S. López-Torres, P. Holroyd, **M. T. Silcox**. Re-analysis of omomyoid material from the middle Eocene of Southern California and the extinction of North American paromomyid plesiadapiforms. *Society of Vertebrate Paleontology 2015 Program and Abstracts*: 167. Podium presentation at 2015 Society of Vertebrate Paleontology Meetings, Dallas, TX USA.
- 2015 O. Bertrand, F. Amador-Mughal, **M.T. Silcox**. *Cedromus wilsoni* (Cedromurinae, Sciuridae): Oldest sciurid endocast and early brain evolution in squirrels. *Society of Vertebrate Paleontology 2015 Program and Abstracts*: 89. Poster presentation at 2015 Society of Vertebrate Paleontology Meetings, Dallas, TX USA.
- 2015 K.A. Prufrock, D.M. Boyer **M.T. Silcox**. Taking a bite out of the competition hypothesis: using dental topography to examine resource overlap between North American stem primates and rodents. *Society of Vertebrate Paleontology 2015 Program and Abstracts*: 199. Podium presentation at 2015 Society of Vertebrate Paleontology Meetings, Dallas, TX USA.
- 2015 P. Morse, **M.T. Silcox**, J.I. Bloch, D.M. Boyer. A new small species of *Arctodontomys* from the Paleocene-Eocene thermal maximum and the effects of global climate change on microsypines. *Society of Vertebrate Paleontology 2015 Program and Abstracts*: 185. Podium presentation at 2015 Society of Vertebrate Paleontology Meetings, Dallas, TX USA.
- 2015 **M.T. Silcox**, R.H. Dunn, K. Kumar, R. Rana, A. Sahni, T. Smith, K.D. Rose. What can you do with an ear bone? Phylogenetic and functional inferences from an exceptionally well-preserved Early Eocene primate petrosal (Cambay Shale Formation, India). Platform presentation, the Canadian Paleontology Conference, Winnipeg MB.
- 2016 R. Bhagat, O.C. Bertrand, **M.T. Silcox**. Locomotor reconstructions from semicircular canals in fossil rodents: the evolution of arboreality in squirrels. *Vertebrate Anatomy Morphology Palaeontology* 2: 11. Poster presentation at 2016 Canadian Society of Vertebrate Paleontology Meetings, Mississauga ON.
- 2016 S. López-Torres, **M.T. Silcox**. Paromomyids: early primates who like the cold? *Vertebrate Anatomy Morphology Palaeontology* 2: 38-19. Podium presentation at 2016 Canadian Society of Vertebrate Paleontology Meetings, Mississauga ON.
- 2016 C. White, J.I. Bloch, **M.T. Silcox**. Virtual endocast of late Paleocene *Niptomomys* (Microsypidae, Primates) and early primate brain evolution. *Society of Vertebrate Paleontology 2016 Program and Abstracts*: 248. Poster presentation at 2016 Society of Vertebrate Paleontology Meetings, Salt Lake City UT.
- 2016 S. López-Torres, K.A. Prufrock, K. Selig, **M.T. Silcox**. Dental topographic analysis of paromomyid (Plesiadapiformes, Primates) cheek teeth: more than 15 million years of changing surfaces and shifting ecologies. *Society of Vertebrate Paleontology 2016 Program and Abstracts*: 177. Podium presentation at 2016 Society of Vertebrate Paleontology Meetings, Salt Lake City UT.
- 2016 H. Kristjanson, **M.T. Silcox**, J. Perry. A new partial cranium of *Plesiadapis tricuspidens* and insights into plesiadapiform cranial anatomy. *Society of Vertebrate Paleontology 2016*

- Program and Abstracts*: 169-170. Poster presentation at 2016 Society of Vertebrate Paleontology Meetings, Salt Lake City UT.
- 2017 **M.T. Silcox**, R. Rusen, J.I. Bloch. Endocranial anatomy of Late Paleocene (Clarkforkian NALMA) *Carpolestes simpsoni* (Plesiadapoidea, Primates) from the Bighorn Basin, Wyoming. *American Journal of Physical Anthropology* 162 (S64): 359. Poster Presentation at 2017 American Association of Physical Anthropology Meetings, New Orleans LA, April 22, 2017.
- 2017 K.R. Selig, **M.T. Silcox**. First 3D dental topographic analysis of the enamel-dentine junction in non-primate euarchontans: investigating development, diet, and taxonomy. *American Journal of Physical Anthropology* 162 (S64): 353-4. Poster Presentation at 2017 American Association of Physical Anthropology Meetings, New Orleans LA, April 20, 2017.
- 2017 S. López-Torres, K. R. Selig K.A. Prufrock, D. Lin, **M.T. Silcox**. Exploring taxonomic and dietary signals in Paromomyidae (Plesiadapiformes, Primates) using 3D dental topographic metrics. *American Journal of Physical Anthropology* 162 (S64): 266-7. Poster Presentation at 2017 American Association of Physical Anthropology Meetings, New Orleans LA, April 22, 2017.
- 2017 O.C Bertrand, F. Amador-Mughal, M. Lang, **M.T. Silcox**. Virtual endocasts of early Aplodontoidea and Sciuridae: brain evolution and locomotion. *Society of Vertebrate Paleontology 2017 Program and Abstracts*: 80-81. Podium presentation at the 2017 Society of Vertebrate Paleontology Meetings, Calgary AB, August 26, 2017.
- 2017 R. Bhagat, O.C. Bertrand, **M.T. Silcox**. Locomotor behaviour reconstruction from the semicircular canals of early fossil rodents: insights into major evolutionary transitions from the inner ear. *Society of Vertebrate Paleontology 2017 Program and Abstracts*: 81. Poster presentation at the 2017 Society of Vertebrate Paleontology Meetings, Calgary AB, August 25, 2017.
- 2017 M. Lang, O.C. Bertrand, **M.T. Silcox**. Scaling patterns in rodent paraflocculi: impacts of locomotion and activity pattern. *Society of Vertebrate Paleontology 2017 Program and Abstracts*: 147. Poster presentation at the 2017 Society of Vertebrate Paleontology Meetings, Calgary AB, August 25, 2017.
- 2017 S. López-Torres, **M.T. Silcox**. The phylogenetic relationships of the Paromomyidae (Primates, Mammalia). *Society of Vertebrate Paleontology 2017 Program and Abstracts*: 153. Podium presentation at the 2017 Society of Vertebrate Paleontology Meetings, Calgary AB, August 24, 2017.
- 2017 R. Bhagat, O.C. Bertrand, **M.T. Silcox**. Semicircular canal measurements and their use in reconstructing locomotor behavior of fossil rodents. Poster presentation at the Annual Conference of the Animal Behavior Society 2017, Scarborough ON, June 14, 2017.
- 2017 K.R. Selig, **M.T. Silcox**. Inferring diet in treeshrews (Scandentia) based on dental topographics. Poster presentation at the Annual Conference of the Animal Behavior Society 2017, Scarborough ON, June 14, 2017.
- 2017 M.S. Ramsay, K.R. Selig, **M.T. Silcox**. By the scan of our teeth: using dental topographic analysis to inform behavioural ecology. Poster presentation at the Annual Conference of the Animal Behavior Society 2017, Scarborough ON, June 14, 2017.
- 2017 S. López-Torres, **M.T. Silcox**. The success of paromomyids: the longest-lived, northernmost group of fossil primates. Podium presentation at the 2017 Polish Society for Human and Evolution Studies 4th Annual Conference, Krakow Poland, September 20, 2017
- 2017 K.R. Selig **M.T. Silcox**. First Analysis of Stem Primate Dental Pathology: insight into dietary shifts and the frequency of dental caries. Poster presentation at the Canadian Association of Physical Anthropology Annual Meeting, 2017, Edmonton AB, Thursday Oct. 26.
- 2017 O.C. Bertrand, F. Amador-Mughal, M. Lang, **M.T. Silcox**. First virtual endocasts of fossil Aplodontidae and their relevance in understanding the relationship between brain evolution and locomotion. Podium presentation at The Palaeontological Association Annual Meeting 2017, London England, December 19, 2017.
- 2018 M.M. Lang, O.C. Bertrand, **M.T. Silcox**. Scaling pattern of primate paraflocculi does not correlate with ecological factors (activity pattern and diet/foraging strategy). *American Journal of Physical Anthropology* 165 (S66): 152-3. Poster Presentation at 2018 American Association of Physical Anthropology Meetings, Austin TX, April 12.

- 2018 L. Nagendran, G.A. San Martin Flores, M.G.I. Atell, O.C. Bertrand, R. Bhagat, M.M. Lang, S. López-Torres, K.R. Selig, D.L. Ward, B. Viola, **M.T. Silcox**. New perspectives on cranial form in Euarchontoglires: A geometric morphometric study of primates and their kin. *American Journal of Physical Anthropology* 165 (S66): 186. Poster Presentation at 2018 American Association of Physical Anthropology Meetings, Austin TX, April 14.
- 2018 G.A. San Martin Flores, L. Nagendran, **M.T. Silcox**. Insights into the primitive brain of primates: Treeshrew cranial endocasts analyzed using geometric morphometrics. *American Journal of Physical Anthropology* 165 (S66): 238. Poster Presentation at 2018 American Association of Physical Anthropology Meetings, Austin TX, April 14.
- 2018 K.R. Selig, S. López-Torres, A. Hartstone-Rose, A.M. Burrows, **M.T. Silcox**. Differential Enamel Thickness in the Anterior Dentition as a Signal for Gouging Behavior. *American Journal of Physical Anthropology* 165 (S66): 249. Poster Presentation at 2018 American Association of Physical Anthropology Meetings, Austin TX, April 13.
- **this poster was the recipient of a G.G. Turner II/Cambridge University Press (CUP) Student Poster Competition prize from the Dental Anthropology Association.
- 2018 D.L. Ward, K.L. Baab, T.B. Viola, **M.T. Silcox**. Using Unintentional Vault Modification to Evaluate Integration of the Bony Labyrinth and Cranium. *American Journal of Physical Anthropology* 165 (S66): 296-7. Poster Presentation at 2018 American Association of Physical Anthropology Meetings, Austin TX, April 13.
- **this poster was the recipient of an AAA-AAPA Anatomy in Anthropology Student Award.
- 2018 O.C. Bertrand, **M.T. Silcox**. Endocranial shape variation within the squirrel-related clade and their fossil relatives using 3D geometric morphometrics: contributions of locomotion and phylogeny to brain shape. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2018: 89. Podium presentation at the 2018 Society of Vertebrate Paleontology Meetings, Albuquerque NM, Oct. 20, 2018.
- 2018 R. Bhagat, **M.T. Silcox**. Evolution of early euprimate locomotor agility and hearing sensitivity: insights from the inner ear of *Cantius* sp. (Bighorn Basin, Wyoming, Early Eocene, Wasatchian NALMA). *Journal of Vertebrate Paleontology*, Program and Abstracts, 2018: 90. Poster presentation at the 2018 Society of Vertebrate Paleontology Meetings, Albuquerque NM, Oct. 19, 2018.
- 2018 M.M. Lang, O.C. Bertrand, **M.T. Silcox**. Scaling pattern of Euarchontoglires cerebellar petrosal lobules: impacts of locomotion and activity pattern. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2018: 164. Poster presentation at the 2018 Society of Vertebrate Paleontology Meetings, Albuquerque NM, Oct. 17, 2018.
- 2018 L. Nagendran, A.E. Chew, K.D. Rose, T.M. Bown, **M.T. Silcox**. Unusual vertebrate assemblage from the McNeil Quarry of the Bighorn Basin, Wyoming (Willwood Formation, Early Eocene, Wasatchian NALMA). *Journal of Vertebrate Paleontology*, Program and Abstracts, 2018: 188. Poster presentation at the 2018 Society of Vertebrate Paleontology Meetings, Albuquerque NM, Oct. 17, 2018.
- 2018 G.A. San Martin Flores, L. Nagendran, **M.T. Silcox**. Geometric Morphometrics on treeshrew cranial endocasts: a comparative analysis of scandentian and plesiadapiform brain shapes. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2018: 209. Poster presentation at the 2018 Society of Vertebrate Paleontology Meetings, Albuquerque NM, Oct. 19, 2018.
- 2018 E.J. Sargis, S.G.B. Chester, J.I. Bloch, **M.T. Silcox**, T.E. Williamson. Functional morphology of a remarkably complete skeleton of *Mixodectes pungens*: evidence for arboreality in an enigmatic eutherian from the Early Paleocene. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2018: 210. Poster presentation at the 2018 Society of Vertebrate Paleontology Meetings, Albuquerque NM, Oct. 19, 2018.
- 2018 K.R. Selig, E.J. Sargis, S.G.B. Chester, **M.T. Silcox**. Three-Dimensional Geometric Morphometric Analysis of Treeshrew Lower Molars: dental morphology of the extinct *Prodendrogale yunnanica* (Scandentia, Tupaiidae). *Journal of Vertebrate Paleontology*, Program and Abstracts, 2018: 213. Poster presentation at the 2018 Society of Vertebrate Paleontology Meetings, Albuquerque NM, Oct. 19, 2018.

- 2018 K.R. Selig, **M.T. Silcox**. Using Three-Dimensional Dental Topographic Analysis to Examine Dietary Change in an Early Group of Eocene Primates; the Microsypine Microsypids. Podium presentation at the Canadian Association of Physical Anthropology Annual Meeting, 2018, London ON, Nov. 2, 2018..
- 2018 D.L. Ward, **M.T. Silcox**, T.B. Viola. Challenges and Opportunities: bony labyrinth shape quantification. Podium presentation at the Canadian Association of Physical Anthropology Annual Meeting, 2018, London ON, Nov. 2, 2018..
- 2018 S. López-Torres, O.C. Bertrand, M.M. Lang, **M.T. Silcox**, Ł. Fostowicz-Frelik. First virtual endocast of a fossil rabbit: *Megalagus turgidus* (Lagomorpha, Mammalia) and brain evolution in euarchontoglires. 1st Palaeontological Virtual Congress (online conference presentation)
- 2018 O. Bertrand, **M.T. Silcox**. 3D Geometric Morphometric analysis of endocranial shape variation in the squirrel-related clade and their fossil relatives: contributions of locomotion and phylogeny to brain shape. Podium presentation at the 2019 The Palaeontological Association Annual Meeting, Bristol UK, Dec. 15, 2018.
- 2019 D.L. Ward, E. Pomeroy, J.E. Roy, L.T. Buck, J.T. Stock, **M.T. Silcox**, T.B. Viola. Bony labyrinth shape as a marker of prenatal stress and the maternal environment. 2019 Annual Meetings, *American Journal of Physical Anthropology* 168 (S68): 282. Poster Presentation at 2019 American Association of Physical Anthropology Meetings, Cleveland OH.
- 2019 K.R. Selig, M.S. Ramsay, **M.T. Silcox**. Investigating variation in euarchontan dental topography as a signal of dietary breadth. 2019 Annual Meetings, *American Journal of Physical Anthropology* 168 (S68): 224. Podium Presentation at 2019 American Association of Physical Anthropology Meetings, Cleveland OH.
- 2019 A. Burrows, A. Hartstone-Rose, L.T. Nash, **M.T. Silcox**, K.R. Selig, S. López-Torres. The uncertainty of the potto and exudate feeding in Lorisidae. 2019 Annual Meetings, *American Journal of Physical Anthropology* 168 (S68): 31-32. Podium Presentation at 2019 American Association of Physical Anthropology Meetings, Cleveland OH.
- 2019 A.M. Burrows, A Hartstone-Rose, L.T. Nash, **M.T. Silcox**, K.R. Selig, S. López-Torres., Disappearing Enamel and Molars: The Evolution of a Dietary Niche Focused on Gums. *The FASEB Journal* 33 (supplement): 452.21. Poster presentation at American Association of Anatomists, Annual Meeting at Experimental Biology 2019.
- 2019 K.R. Selig, W. Khalid, **M.T. Silcox**. Complexity of the lower molar row is explained by the inhibitory cascade model and diet within Euarchonta. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2019: 189. Podium presentation at the 2019 Society of Vertebrate Paleontology Meetings, Brisbane, Australia, Oct. 9, 2019.
- 2019 R. Allemand, J. Abdul-Sater, **M.T. Silcox**. Endocranial anatomical changes that accompany the loss of limbs in Squamates. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2019: 53. Poster presentation at the 2019 Society of Vertebrate Paleontology Meetings, Brisbane, Australia, Oct. 12, 2019.
- 2019 S. López-Torres, R. Bhagat, M.T. Silcox, Ł. Fostowicz-Frelik First virtual reconstruction of the inner ear of a fossil rabbit: locomotor behaviour and hearing sensitivity of *Megalagus turgidus* (Early Oligocene of Nebraska). *Journal of Vertebrate Paleontology*, Program and Abstracts, 2019: 144. Poster presentation at the 2019 Society of Vertebrate Paleontology Meetings, Brisbane, Australia, Oct. 12, 2019.
- 2019 G.A. San Martin Flores, L. Nagendren, M.M. Lang, M.T. Silcox. Cranial endocasts of colugos, and their relevance to understanding the early phases of the evolution of the brain in Euarchonta and Primates. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2019: 186. Poster presentation at the 2019 Society of Vertebrate Paleontology Meetings, Brisbane, Australia, Oct. 9, 2019.
- 2019 M.M. Lang, G.A. San Martin Flores, O. Bertrand, L. Nagendren, S. López-Torres, M.T. Silcox. Endocranial shape variation within Euarchontoglires using 3D Geometric Morphometrics. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2019: 137. Podium presentation at the 2019 Society of Vertebrate Paleontology Meetings, Brisbane, Australia, Oct. 10, 2019.
- 2019 R.E. Narducci, V.B. DeLeon, M.T. Silcox, J.I. Bloch. Analysis of endocranial shape variation in fossil and modern Xenarthrans using 3D geometric morphometrics. *Journal of*

Vertebrate Paleontology, Program and Abstracts, 2019: 158. Poster presentation at the 2019 Society of Vertebrate Paleontology Meetings, Brisbane, Australia, Oct. 9-12, 2019.

11. Invited Lectures

- 1998 “Unusual assemblages of microvertebrates, including primates, from the Eocene Willwood Formation of Wyoming”. State University of New York, Stony Brook, December.
- 2006 “Primate Origins and the Fossil Record: Explaining the earliest phases in our evolution.” University of Winnipeg, Brown Bag Lunch Series, November.
- 2007 “Explaining Primate Origins.” University of Calgary, Dept. of Biological Sciences, April 10.
- 2008 “Brain Evolution in Early Primates.” University of Saskatchewan, Dept. of Geological Sciences, November.
- 2008 “Brain Evolution in Early Primates.” University of Winnipeg, Dept. of Biology, March.
- 2010 “Turkana Boy: A *Homo erectus* skeleton and its significance for the study of the human evolution.” University of Winnipeg, Darwin Day Celebration, February 12.
- 2010 “The Fossil Record for Primate Origins: where do we go from here?” University of Toronto Anthropology Department Colloquium Series, November 29th.
- 2011 “The Fossil Evidence for Primate Origins.” University of Toronto Mississauga Biology Department, February 4th.
- 2011 “North American Primates.” University Lecture Series (Department of Continuing Education), University of Toronto, ON. Oakville Engineers Convention Centre, March 16th.
- 2013 “Putting Primates in the Tree of Life” University of Toronto Scarborough Biology Seminar Series, March 15.
- 2014 “Why fossils matter: understanding the early evolution of the brain in Primates” University of Toronto Scarborough Celebration of Research Excellence, October 29.
- 2015 “Brains! Understanding the early evolution of the brain in primates and their kin using the fossil record.” University of Winnipeg Biology Seminar Series, Oct. 30.
- 2016 “Building a Primate Brain.” University of Calgary, Anthropology and Archaeology departmental seminar, Feb. 9.
- 2016 “Why so big? Understanding the Early Evolution of the Brain in Primates and their Relatives Using the Fossil Record” Royal Tyrrell Museum (Drumheller, AB) Speaker Series, Feb. 12.
- 2016 “Brain evolution in early primates and other euarchontoglires: what do we know, and where do we go?” Duke University, Evolutionary Anthropology seminar, March 9th
- 2016 “The fossil evidence for the evolution of the brain in Euarchontoglires”. Johns Hopkins University, Functional Anatomy and Evolution Seminar, April 22nd
- 2019 “Fossil evidence for brain evolution in early Primates and their kin: moving from form to function”, German Primate Centre, Göttingen Germany, May 16, 2019
- 2019 “Fossil evidence for brain evolution in early Primates and their kin: moving from form to function” Polish Academy of Sciences, Warsaw Poland, May 20, 2019

D. **LIST OF COURSES** (in preceding 5 years)

I had major responsibility for design of the course in all cases.

12. A. Undergraduate courses taught

University of Toronto

ANTA01H3, Introduction to Anthropology: Becoming Human

ANTC16H3, The Foundation and Theory of Human Origins

ANTC17H3, Human Origins: New Discoveries

ANTC99H3, Primate Evolution

ANTD99H3, Advanced Topics in Primate Evolution

ANTC03: Directed Reading Course (various topics)

ANTD31, D32: Individual research course (various topics)

ANT499, Independent Study (various topics)

B. Graduate courses taught

University of Toronto

ANT3045HS, Advanced Topics in Non-Human Primate Evolution

ANT3046HS, Paleocology in Primate and Human Evolution

ANT3047HS, Evolutionary Anthropology Theory

ANT1155H, Independent reading course (various topics)

C. Theses supervised.

Masters Students:

Waqas Khalid, “Dietary reconstruction of Mixodectidae”, 2019-present (in progress), primary supervisor, U of T Dept. of Anthropology

Adam Long, “The Neocortex in Primitive Primates”, completed MSc 2013, primary supervisor, U of T Dept. of Anthropology 2011-2013

Kristen Prufrock, “The first major primate extinction: testing competitive exclusion in the fossil record of North American stem primates using dental topography”, completed MSc 2014, primary supervisor, U of T Dept. of Anthropology 2012-2014

Rachel Rusen, “The endocranial anatomy of *Carpolestes simpsoni*”, completed MSc 2015, primary supervisor, U of T, Dept. of Anthropology 2013-2015

Chelsea Makowski, “The endocranial anatomy of *Niptomomys*”, completed MSc 2016, primary supervisor, U of T, Dept. of Anthropology 2014-2016

Keegan Selig, “First 3D dental topographic analysis of the enamel-dentine junction in non-primate euarchontans: investigating development, diet, and taxonomy”, completed MA 2017, primary supervisor, U of T, Dept. of Anthropology 2016-2017

Madlen Lang, “Scaling Patterns in the Petrosal Lobules of Superorder Euarchontoglires according to Ecological and Phylogenetic factors”, completed MSc 2018, primary supervisor, U of T, Dept. of Anthropology.

Lavana Nagendran “Unusual Vertebrate Assemblage from the McNeil Quarry of the Bighorn Basin, Wyoming (Willwood Formation, early Eocene, Wasatchian NALMA)”, completed MSc 2018, primary supervisor, U of T, Dept. of Anthropology.

Raj Bhagat ” Turning the semicircular canal morphospace of Euarchontoglires on its ears: Shape variation reflects phylogeny over other factors”, completed MSc 2019, primary supervisor, U of T, Dept. of Anthropology.

Gabriela San Martin Flores, ” Insights into the Earliest Primates’ Brains: 3-D geometric morphometric analysis of endocranial shape variation of scandentian endocasts”, completed MSc 2019, primary supervisor, U of T, Dept. of Anthropology.

Doctoral Students:

Keegan Selig, “The Use of Three-Dimensional Dental Topographic Analysis in the Examination of Primate Evolution, Dietary Change, Intraspecific Variation, and Development”, 2016-present (in progress), primary supervisor, U of T, Dept. of Anthropology

Devin Ward, “Intraspecific Variation in the Bony Labyrinth”, 2016-present (in progress), co-supervisor (with T.B. Viola), U of T, Dept. of Anthropology

Madlen Lang, topic TBA, 2019-present (in progress), U of T, Dept. of Anthropology

Ornella Bertrand, “Virtual Endocasts for Ischyromyidae and Sciuridae: Brain Evolution in Rodentia and a Deeper Understanding of the Ancestral Condition for the Brain of Euarchontoglires”, completed 2016, primary supervisor, U of T Dept. of Anthropology 2012-2016

Sergi López-Torres, “The Paromomyidae (Primates, Mammalia): Systematics, Evolution, and Ecology”, completed 2017, primary supervisor, U of T Dept. of Anthropology 2011-2017

Amber Walker-Bolton, “Male Mating Success in *Lemur catta*”, completed 2017, primary supervisor, U of T Dept. of Anthropology 2014-2017 (took over as primary supervisor in Sept. 2014 when Dr. Joyce Parga left U of T)

Postdoctoral Fellows:

Ornella Bertrand October 2017-August 2018

Rémi Allemand January 2019-June 2020

D. Other teaching and lectures given (in preceding 5 years)

Teaching grants awarded

2014 University of Toronto Scarborough Teaching Enhancement Grant (CAN\$4814) “An introduction to curatorial practice: building a database and visual archive for the Anthropology teaching collections”

2012 University of Toronto Scarborough Teaching Equipment Grant (Can\$1535) “Disarticulated cast of a human skeleton for ANTA01”

2011 University of Toronto Scarborough Teaching Equipment Grant (Can\$1970) “Stereo dissecting microscopes for the Anthropology lab”

Graduate committee memberships

2018-present, Member MSc committee, Kayla Bazzana, Robert Reisz (Advisor), Department of Ecology and Evolutionary Biology, University of Toronto.

2017-present, Member, PhD committee, Andrew Holmes, David Begun (Advisor), Department of Anthropology, University of Toronto. Interim supervisor 2017-8.

2016-present, Member, PhD committee, Ashley Reynolds, David Evans (Advisor), Department of Ecology and Evolution, University of Toronto

2011-present (on leave), Member, PhD committee, Amber MacKenzie, David Begun (Advisor), Department of Anthropology, University of Toronto

2019 (completed), Member of examining committee, MSc Thesis Defense, Allen Chochinov, Marc Laflamme (advisor), Department of Earth Sciences, University of Toronto.

2019 (completed), Member, PhD committee, Kathy Pitirri, David Begun (advisor), Department of Anthropology, University of Toronto

2018 (completed), Member PhD committee, Ellen Fricano, Valerie Burke Deleon (advisor), Centre for Functional Anatomy and Evolution, Johns Hopkins University

2018 (completed) Member of examining committee, PhD Thesis Defense, Mateusz Wosik, David Evans (advisor), Department of Ecology and Evolution, University of Toronto

2018 (completed) Member, PhD committee, Amy Beresheim, Susan Pfeiffer (advisor), Department of Anthropology, University of Toronto

2017 (completed) Member of examining committee, PhD Thesis Defense, Laura Eastham, David Begun (advisor), Department of Anthropology, University of Toronto

2017 (completed) Member, PhD committee, Dejana Nikitovic, Michael Schillaci (advisor), Department of Anthropology, University of Toronto

2017 (completed) Member of examining committee, PhD Thesis Defense, Michael Reid, Michael Schillaci (advisor), Department of Anthropology, University of Toronto

2017 (completed) Member of examining committee, PhD Thesis Defense, Mark MacDougall, Robert Reisz (Advisor), Department of Ecology and Evolution, University of Toronto

2016 (completed) Member, PhD committee, Erica Tennenhouse, Michael Schillaci (advisor), Department of Anthropology, University of Toronto

2016 (completed) Member of examining committee, PhD Thesis Defense, Mike Reid, Michael Schillaci (Advisor), Department of Anthropology, University of Toronto.

2016 (completed), Member, PhD committee, Melissa Edwards, Esteban Parra (advisor), Department of Anthropology, University of Toronto

2016 (completed), External examiner, PhD committee, Rui Tahara, Hans Larsson (advisor), Department of Biology, McGill University

2016 (completed), Member, MSc committee, Eilidh Richards, Robert Reisz (Advisor), Department of Ecology and Evolution, University of Toronto

2015 (completed) Member, PhD committee, Sarah Richer, Rob Hoppa (advisor), Department of Anthropology, University of Manitoba

2015 (completed) Member of examining committee, PhD Thesis Defense, Jared Heinrich, Susan Pfeiffer (Advisor), Department of Anthropology, University of Toronto

2014 (completed) Member, PhD committee, Kim Valenta, Shawn Lehman (advisor), Department of Anthropology, University of Toronto

2014 (completed) Member, PhD committee, Julia Gamble, Rob Hoppa (advisor), Department of Anthropology, University of Manitoba

2014 (completed) Reader, Master's Research Project, Elijah Selberg, David Begun (advisor), Department of Anthropology, University of Toronto

2013 (completed) Member of examining committee, PhD Thesis Defense, Stephanie Kozakowski, David Begun (Advisor), Department of Anthropology, University of Toronto

2013 (completed) Member of examining committee, PhD Thesis Defense, Nic Campione, David Evans and Robert Reisz (Co-advisors), Department of Ecology and Evolution, University of Toronto

2013 (completed) Member of examining committee, PhD Thesis Defense, Caleb Brown, David Evans and Robert Reisz (Co-advisors), Department of Ecology and Evolution, University of Toronto

2013 (completed) Member of examining committee, MSc Thesis Defense, Collin Van Buren, David Evans (Advisor), Department of Ecology and Evolution, University of Toronto

2010 (completed) Reader, Master's Research Project, Laura Adlam, David Begun (advisor), Department of Anthropology, University of Toronto

2010 (completed) Member, PhD committee, Amanda Blackburn, Rob Hoppa (advisor), Department of Anthropology, University of Manitoba

2009 (completed) Member, MA committee, Yasmin Carter, Rob Hoppa (advisor), Department of Anthropology, University of Manitoba

2009 (completed) Member, MA committee, Jenn Morgan, Rob Hoppa (advisor), Department of Anthropology, University of Manitoba

E. **ADMINISTRATIVE POSITIONS**

(indicate period of service and function)

13. A. Positions held and service on committees and organizations within the University.

University of Toronto

2016-2020 Vice Dean Graduate, UTSC

2019-20 Member, Graduate Professionalization and Advancement Committee, Graduate Dept. of Anthropology

Member, Curriculum and Calendar Committee, UTSC Dept. of Anthropology

Member, PTR Committee, UTSC Dept. of Anthropology

- 2018-19 Co-Chair, Graduate Professionalization Committee, Graduate Dept. of Anthropology
 UTSC Anthropology department representative on space
 Member, search committee for Executive Director of Communications, UTSC
 Chair, Interim Review Committee, Julie Teichroeb
 Member, tenure committees for Genevieve Dewar, Diana Fu, Katie Kilroy-Marac
- 2017-18 Member, Graduate Professionalization Committee, Dept. of Anthropology
 Member, tenure committee, Ron Shalev, Management Dept. UTSC
 UTSC Anthropology department representative on space
 Member, search committee for Dean of SGS
- 2016-17 Member, selection committee for acting chair, Dept. of Anthropology UTSC
 Member, Tri-Campus Awards Committee, Department of Anthropology
 Member, interim review committee, Lena Mortenson
 Chair, interim review committee, Genevieve Dewar
- 2014-15 Acting Associate Chair, UTSC Dept. of Anthropology (Fall term, 2014)
 Member and Chair (from Jan. 2015), Anthropology Department Colloquium Committee
 Member, Academic Affairs Committee, UTSC
 Member, Primate Behaviour search committee, UTSC
 Member, Evolutionary Anthropology search committee, St. George Dept. of Anthropology
 Member, 3rd year review committee for D. Young
 Member, Graduate Admissions committee (for PhD Applicants)
- 2013-2015 Faculty Sponsor for “Got Anthropology” talk series
- 2013-2014 Chair, Tri-Campus Awards Committee, Department of Anthropology;
 Member, Geography search committee in Comparative City Studies;
 Member, internal teaching tenure review committee for G. Daswani
 Member, Anthropology Department Curriculum Committee
 Member, 3rd year review committee for B. Dahl
- 2012-2013 Member, Bioarchaeology search committee,
 Member, UTSC Anthropology PTR committee
 Member, Anthropology Department Colloquium Committee
- 2011 (Jan.)-2012 Member, Anthropology Department Graduate Fellowships and Awards Committee

University of Winnipeg

- 2009-2010 Acting Chair, Department of Anthropology
 Chair, Anthropology Department Personnel Committee
 Member, Anthropology Department Review, Research and Ethics, Laboratories, Visiting Lectures, Budget, and Curriculum Committees
 Member, Senate, Science Council, Search Committee for Vice President Academic
- 2007-2008 Co-ordinator, Bioanthropology Program
 Member, Science Council, Senate
- 2006-2008 Chair, Anthropology Department Personnel Committee
 Member, Anthropology Department Review, Research and Ethics, Laboratories, Visiting Lectures, and Curriculum Committees
 Member, Senate, Senate Executive, Senate Advisory Sub-committee on the Library, Senate Library Committee, NSERC Committee, Faculty and Staff Club Board
- 2005-2006 Chair, Anthropology Department Review, and Research and Ethics Committees
 Member, Anthropology Department Personnel, Laboratories, Visiting Lectures, and Curriculum Committees
 Member, Senate, Senate Advisory Sub-committee on the Library, Senate Library Committee, NSERC Committee, Faculty and Staff Club Board

2003-2005 Chair, Anthropology Department Personnel Committee
Member, Anthropology Department Review, Laboratories, Research and Ethics,
and Curriculum Committees
Member, Faculty Tenure and Promotion Committee
2003-2004 Member, Senate Animal Care Committee
2002-2003 Chair, Anthropology Department Research and Ethics Committee
Member, Anthropology Department Personnel, Review, and Curriculum
Committees

F. **OTHER RELEVANT INFORMATION**

Featured in *Nova Science Now* piece on the “First Primates”; first aired July 9, 2008 on PBS; available online at https://www.youtube.com/watch?v=W_X5ciqtbG0