

TIMOTHY B. ROWE

Jackson School of Geosciences
High-Resolution X-ray Computed Tomography Facility
Vertebrate Paleontology Laboratory
The University of Texas at Austin
Austin, Texas 78712

Curriculum Vitae (January 12, 2023)

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Professional Positions:

The University of Texas at Austin

1995 – present Professor of Geology
1997 – present Director ***University of Texas High-Resolution X-ray Computed Tomography Facility***
1999 – present Director, ***Digital Morphology***, An NSF Digital Library
1998 – 2014 Director, ***Vertebrate Paleontology Laboratory***, Texas Memorial Museum
1996 – 1997 Director, ***UT Center for Instructional Technologies***
1995 – 2020 J. Nalle Gregory Regents Professor of Geology
1993 – 1995 Peter T. Flawn Centennial Teaching Fellow in Geology
1992 – 1993 William T. Stokes Centennial Teaching Fellow in Geology
1987 – 1992 Bill R. Payne Centennial Teaching Fellow in Geology

1994 – present Professor
1991 – 1994 Associate Professor
1986 – 1991 Assistant Professor

Smithsonian Institutions, U. S. National Museum of Natural History

1983 – 1984 Fellow in Residence

University of California, Berkeley

1983 - 1985 Teaching Associate; Research Assistant Museum of Paleontology

Consulting Paleontologist

1981 – 1986 *for:* Woodward-Clyde Associates, Utah International, Salt River Project, El Paso Coal Company, Wirth Associates, and others

Museum of Northern Arizona, Flagstaff

1978 – 1981 Senior Paleontologist

University of Chicago

1976-1978 Teaching Assistant, Human Gross Anatomy, Field Museum of Natural History Fellowship

Thomas J. Watson Fellow At Large

1975 – 1976 Independent research in museums Europe and Africa

Education:

- Ph.D. 1986 University of California, Berkeley (Paleontology)
- M.S. 1981 University of Chicago (Anatomy)
- A.B. 1975 Occidental College (Geology major, Biology minor)

Personal Information:

- Born: October 31, 1953, USA
- Married: Elizabeth P. Gordon

Honors and Awards:

- 2022 – Present *Sigma Xi* Full Membership
- 2014-2017 *Phi Beta Kappa* Visiting Scholar
- 2009-present Chancellor's Circle, University of Texas System
- 2008-present Founding Member, Hill Society, Jackson School of Geosciences
- 2007-present Research Associate, Museum of Northern Arizona
- 1996-present Honorary Member, Golden Key Honors Society
- 2005-2012 Research Fellow, American Museum of Natural History
- 2004 Scientific American – World's 50 Best Websites, for DigiMorph.org
- 2004 National Association for Interpretation Media Competition, 3rd place, for The Dino Pit Exhibit at the Austin Nature & Science Center, under the Wayside Exhibit Category.
- 2003 Gold Award, for DigiMorph.Org, in Innovative Use of Instructional Technology, by UT Division of Instructional Innovation and Assessment.
- 2003 Yahoo's Top 25 Web picks for 2003, for DigiMorph.Org.
- 1997-1998 Founding Fellow, UT Center for Instructional Technologies
- 1995 President's Associates Teaching Excellence Award, University of Texas
- 1989-1994 National Science Foundation Presidential Young Investigator Award.
- 1993 Knebel Teaching Award in Geological Sciences
- 1990 Knebel Teaching Fellowship in Geological Sciences
- 1990 Dad's Association Centennial Teaching Fellowship, College of Natural Sciences, The University of Texas
- 1985 George D. Louderback Award for Academic Excellence and Leadership in Departmental Programs, Department of Paleontology, University of California, Berkeley.
- 1984-1985 Peabody Fellowship, Department of Paleontology, University of California, Berkeley.
- 1982-1983 Regent's Fellowship, University of California, Berkeley.
- 1981-1982 Wheeler Fellowship, University of California, Berkeley.
- 1982 Print CaseBooks 5 Award of Excellence for "Fossils of New Mexico," a 2-year public exhibit commissioned by the State of New Mexico, written by T. Rowe, produced by the Museum of Northern Arizona, designed by Ralph Appelbaum Associates.
- 1976-1977 Field Museum of Natural History Fellowship, University of Chicago.
- 1975-1976 Thomas J. Watson Fellowship.
- 1973-1975 Occidental College Scholarship, Occidental College, Los Angeles

Research Funding:

- 2018 – 2022 National Science Foundation. *Facility Support: High-Resolution X-ray Computed Tomography Laboratory*. (EAR 1762458, \$1,361,197) (Richard Ketcham, Timothy Rowe, Jessica Maisano co-PIs). Administered in the Jackson School of Geosciences.
- 2018-2021 National Science Foundation. *Facility Support: High-Resolution X-Ray Computed Tomography Laboratory*. (EAR 1561622) \$1,134,758 (Richard Ketcham, Timothy Rowe, co-PIs). Administered in the Jackson School of Geosciences.
- 2019-2020 National Science Foundation, *Major Research Instrumentation* Acquisition of a state-of-the-art high-resolution X-ray computed tomographic scanner. (EAR 1919700) \$1,734,749. (Richard Ketcham, Timothy Rowe, Jessica Maisano co-PIs). Administered in the Jackson School of Geosciences.
- 2015-2018 National Science Foundation. *The Hartley Mammoth and Clovis Proboscidean Exploitation* (NSF BCS 1541294), \$31,770. (PIs: Bruce Huckell, Leslie D. McFadden, Grant A. Meyer, and Timothy B Rowe). Administered by the University of New Mexico.
- 2016-2018 National Science Foundation. *Facility Support: High-Resolution X-Ray Computed Tomography Laboratory*. (EAR 1561622) \$626,168 (Richard Ketcham, Timothy Rowe, co-PIs). Administered in the Jackson School of Geosciences.
- 2013-2016 National Science Foundation. *Facility Support: High-Resolution X-ray Computed Tomography Laboratory*. (EAR 1258878) \$741,998 (Richard Ketcham, William Carlson, Timothy Rowe, co-PIs). Administered in the Jackson School of Geosciences.
- 2012-2014 National Science Foundation. *Facility Support: Refurbishing the High-Resolution X-ray Computed Tomography Laboratory Principal Instrument* (EAR-1160721) \$310,000 (Richard Ketcham, William Carlson, Timothy Rowe, co-PIs). Administered in the Jackson School of Geosciences.
- 2011–2012 University of Texas Longhorn Innovation Fund in Technology (LIFT) program, for “*Transforming UT’s Award Winning DigiMorph.org into a National Repository for 3D (Voxel) Datasets.*” \$108,000 (PI Rowe); Administered in the Jackson School of Geosciences.
- 2010-2013 National Science Foundation. *Facility Support: High-resolution X-ray Computed Tomography Laboratory* (EAR-0948842) \$748,698 (PIs: Ketcham, Carlson, Rowe) Administered in the Jackson School of Geosciences.

- 2005-2009 National Science Foundation, *Vertebrate Morphology, Phylogeny, and 3D Phyloinformatics* (AToL 0531767). \$1,000,000. (PIs Rowe, Humphries, Miranker) Administered in the Jackson School of Geosciences.
- 2007-2008 National Science Foundation. *Acquisition of a High Resolution Micro X-ray Computed Tomographic Scanner*. (NSF CNS-0709135). \$134,158. (PIs; Rowe, Carlson, Ketcham) Administered in the Jackson School of Geosciences.
- 2003-2005 National Science Foundation Dissertation Improvement Grant: *Evolution of the Cranial Cavity in Mammals* (DEB 0309369; for Edward T. Macrini). \$12,000. Administered in the Jackson School of Geosciences.
- 2002-2007 National Science Foundation Grant (renewal): *A Digital Library of Vertebrate Morphology Using High-Resolution X-ray CT* (IIS-0208675). \$500,000. Administered in the Jackson School of Geosciences.
- 1999-2002 National Science Foundation Grant: *A Digital Library of Vertebrate Morphology Using High-Resolution X-ray CT* (IIS-9874781). \$499,964. Administered in the UT Department of Geological Sciences.
- 1998-2000 Intel Foundation Equipment Award: “*The Virtual Musuem.*” \$300,000. Equipment grant administered by UT ACITS.
- 1995-1996 W. M. Keck Foundation Grant *High-Resolution X-ray Tomography for the Earth Sciences* (co-PI with W. Carlson, J. Kappelman). \$500,000. Administered in the UT Department of Geological Sciences.
- 1995-1996 National Science Foundation Grant: *Acquisition of a High Resolution X-ray CT scanner for the Earth Sciences* (EAR-940625B) \$150,000. (co-PI with W. Carlson, J. Kappelman). Administered in the UT Department of Geological Sciences.
- 1995-1997 National Science Foundation Grant Doctoral Dissertation Research: *Phylogenetic Systematics of Eusuchian Crocodylomorpha* (\$10,000, for Christopher Brochu). Administered in the UT Department of Geological Sciences.
- 1995-1997 National Science Foundation Grant *Doctoral Dissertation Research: Phylogenetic Analysis of Euryapsidan Reptiles* (\$10,000, for John Merck). Administered in the UT Department of Geological Sciences.
- 1992-1994 National Science Foundation Grant: *Computer Multimedia Labs for Freshman-level Science Courses* (USE-9156073) \$368,000. Administered in the UT Department of Geological Sciences.
- 1989-1994 National Science Foundation Presidential Young Investigator Award: *Ontogeny and Phylogeny of the Tetrapod Skeleton* (BSR-89-58092) \$310,000. Administered in the UT Department of Geological Sciences.
- 1989-1991 Texas Advanced Technology Program Grant: *Storage and Analysis of Biological Image Data Using Compact Disc* (Biotechnology, Project No. 003658-236) \$90,000. Administered in the UT Department of Geological Sciences.

- 1989-1991 American Chemical Society, Grant: *Geochronology, Biostratigraphy and Vertebrate Diversity of Late Cretaceous Non-Marine Sediments of Trans-Pecos Texas* (ACS-PRF# 21470-G8) \$18,000.
Administered in the UT Department of Geological Sciences.
- 1986-1988 University of Texas Research Institute, Research Grant, for *Ontogeny and Phylogeny of the Mammalian Skeleton* (URI 20-7499-0467) \$5,000.
Administered in the UT Department of Geological Sciences.
- 1985-1987 National Science Foundation, *Cladistic Analysis of the Higher Systematic Categories of Therapsida (Vertebrata; Amniota)* (Doctoral Dissertation Improvement Grant (BSR-84-13847; \$9,458). Administered by the University of California, Berkeley.
- 1983-1984 Smithsonian Institution Predoctoral Fellowship, for *Cladistic Analysis of the Higher Systematic Categories of Therapsida* \$13,000.
- 1975-1976 Thomas J. Watson Fellow at Large, to study *Classification of Dicynodont Reptiles* (for independent study at major European and South African museums) \$7,000.

Websites

Google Scholar Profiles (recorded January 12, 2023)

I. Conventional Publications by TB Rowe:

h-index = 55
total citations = 11,325
i10 index = 94

II. Digital Morphology, an NSF Digital Library at The University of Texas:

Google Scholar Profile (recorded January 12, 2023): Publications based on CT data served at www.DigiMorph.org

<https://scholar.google.com/citations?user=2WoxvMIAAAAJ&hl=en>

h-Index = 65
citations = 13,793
i10-index = 184

III. University of Texas High-Resolution X-Ray Computed Tomography Facility

Google Scholar Profile (recorded February 24, 2021): Publications based on data generated by UTCT (<http://www.ctlab.geo.utexas.edu/>)

1067 publications
Citations = 28,814
h-Index = 78

Selected Publications:

* = coauthor is current or former student or postdoc

= not-peer-reviewed

- (2022) Rowe TB. *Evolution of the Mammalian Neurosensory System: Fossil Evidence and Major Events*. Pp. 365-422, I: Paleoneurology of Amnotes (. T. Dozo, A. Paulina-Carbajal, TE Macrini, and S. Walsh, eds.) Springer.
- (2022) Griffin, C.T., Botelho, J.F., Hanson, M., Fabbri, M., Smith-Paredes, D., Carney, R.M., Norell, M.A., Egawa, S., Gatesy, S.M., Rowe, T.B. Elsey, R.M., Nesbitt, S.J., and B.A.S. Bhullar. *The developing bird pelvis passes through ancestral archosaurian and dinosaurian conditions*. Nature, 608, 346-352.
- (2022) Rowe, TB, TW Stafford, DC Fisher, JJ Enghild, RA Ketcham, and MW Colbert*. *Human Occupation on the Colorado Plateau of North America ~37,000 years ago*. Frontiers in Ecology and Evolution, July 7, 2022, 534.
- (2022) Luo, ZX, Bhullar, BAS, Crompton, AW, and Rowe, TB. Reexamination of the *mandibular and dental morphology of the Early Jurassic mammaliaform Hadrocodium wui*. Acta Palaeontologica Polonica, 67: 95-113.
- (2021) Frank, L. R., Rowe, T. B., Boyer, D. M., Witmer, L. M., and Galinsky, V. L. *Unveiling the Third Dimension: Automated quantitative volumetric computational morphometry*: Nature Scientific Reports, v. 11, p. 14438
- (2021) Shepherd, GM, TB Rowe and CA Greer. *An evolutionary microcircuit approach to the neural basis of high dimension sensory processing in olfaction*. Frontiers in Cellular Neuroscience. 15, 137 (658480).
- (2021) Breeden, BT*, TJ Raven, RJ Butler, TB Rowe and SCR Maidment. *The anatomy and palaeobiology of the early armoured dinosaur Scutellosaurus lawleri (Ornithischia: Thyreophora) from the Kayenta Formation (Lower Jurassic) of Arizona*. Royal Society Open Science, 8(7), 20676.
- (2021) V. Weisbecker, T. Rowe, S. Wroe, T. E. Macrini*, K. Garland, K.J. Travouillon, K. Black, M. Archer, S. Hand, J. Berlin*, R.M.D. Beck, S. Ladevèze, A. Sharp, E. Sherratt. *Global elongation and high shape flexibility as an evolutionary hypothesis of accommodating mammalian brains into skulls*. Evolution 75 (3): 625-640.
- (2021) *Breeden, BT, and TB Rowe. *New Specimens of Scutellosaurus lawleri, (Ornithischia, Thyreophora) from the Lower Jurassic Kayenta Formation of Arizona*. Journal of Vertebrate Paleontology, 40(4) e1791894.
- (2020) Rowe, T. B. *The Emergence of Mammals*. In: *Evolutionary Neuroscience Edition 2* (J. Kass, editor), pp. 263-319, Elsevier, Academic Press.

- (2020) *Marsh, AD, and TB Rowe. *A comprehensive anatomical and phylogenetic evaluation of Dilophosaurus wetherilli (Dinosauria: Theropoda) with descriptions of new specimens from the Kayenta Formation of northern Arizona*. Journal of Paleontology 94, Volume 94, Memoir 78, pp. 1-103.
- (2020) Wiemann, J, JA Gauthier, K de Queiroz, TB Rowe, P Turner, J Gogarten, RP Anderson, NJ Planavsky. *Pan-Biota*. Pp. 3-11 In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Wiemann, J, JA Gauthier, K de Queiroz, TB Rowe, P Turner, J Gogarten, RP Anderson, NJ Planavsky. *Biota*. Pp. 14-28, In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Rowe, TB. *Pan-Mammalia*. Pp. 783-791. In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Rowe, TB. *Therapsida*. Pp. 797-808, In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Rowe, TB. *Cynodontia*. Pp. 813-823, In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Rowe, TB. *Mammaliaomorpha*. Pp. 825-831, In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Rowe, TB. *Mammaliaformes*. Pp. 833-839, In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Rowe, TB. *Mammalia*. Pp. 841-847, In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Rowe, TB, RVS Wallace*, and BAS. Bhullar*. *Pan-Monotremata*. Pp. 849-855, In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2020) Rowe, TB, RVS Wallace*, and BAS. Bhullar*. *Monotremata*. Pp. 875-889, In: *Phylonyms, the Companion Volume to the Phylocode* (P. Cantino, K. de Queiroz, and J. A. Gauthier, eds). Taylor and Francis, New York.
- (2019) *Wallace RVS, R Martinez, and TB Rowe. *First record of a basal mammaliaform from the Carnian-Norian Ischigualasto Formation of Argentina*. PLoS ONE 14(8): e0218791. <https://doi.org/10.1371/journal.pone.0218791>.

- (2018) Rossie, JB., Smith, TD., Beard, KC., Godinot, M. and Rowe, TB. *Nasolacrimal anatomy and haplorhine origins*. Journal of human evolution **114**, 176-183 (2018).
- (2018) Marsh*, AD, and TB Rowe. *Anatomy and systematics of *Sarhsaurus aurifontanalis* from the Early Jurassic Kayenta Formation*. PLoSOne, <https://doi.org/10.1371/journal.pone.0204007>
- (2018) Hoffman*, E., and TB Rowe. *Jurassic Stem-Mammal Perinates and Origin of Mammalian Reproduction and Growth*. Nature 561, 104-108, plus 14 page supplement.
- Reviewed in Current Biology: Sues, HD. 2018. *Paleontology: Many babies or bigger brains?* Current Biology 28, R1243-R1265.
- Jackson School of Geosciences Best Student Paper Award, 2019.
- (2017) Shepherd, GM, and TB Rowe. *Neocortical lamination: Insights from Neuron Types and Evolutionary Precursors*. Frontiers in Neuroanatomy, 11:100 doi: [10.3389/fnana.2017.00100](https://doi.org/10.3389/fnana.2017.00100)
- (2017) Fabbri, M., N. M. Mongiardino, A. C. Pritchard, M. Hanson, E. Hoffman*, G. S. Bever*, A. M. Balanoff*, Z. Morris*, D. J. Field, J. Comacho, T. B. Rowe, M. A. Norell, R. M. Smith, A. Abzhanov, B.-A. S. Bhullar*. *The skull roof tracks the brain during evolution and development of reptiles including birds*. Nature Ecology and Evolution, doi:10.1038/s41559-017-0288-2.
- (2017) Davies, TG, IA Rahman, S Lautenschlager , JA Cunningham, RJ Asher, PM Barrett , KT Bates, S Bengtson, RB. J. Benson, DM Boyer , J Braga, JA. Bright, LPAM Claessens, PG Cox, X-P Dong, AR Evans, PL Falkingham, M Friedman, RJ Garwood, A Goswami, JR Hutchinson , NS Jeffery, Z Johanson, R Lebrun, C Martínez-Pérez, J Marugán-Lobón, PM O’Higgins, B Metscher, M Orliac, TB Rowe, M Rücklin, MR Sánchez-Villagra, NH Shubin, SY Smith, J Matthias Starck, C Stringer , AP Summers, MD. Sutton, SA Walsh, V Weisbecker, LM Witmer, S Wroe, Z Yin, EJ Rayfield, PCJ Donoghue. *Open Data and Digital Morphology*. Proceedings of the Royal Society of London, B, 20170194 <http://dx.doi.org/10.1098/rspb.2017.0194>
- (2017) Rowe, TB. *The Emergence of Mammals*. In: Jon Kaas (ed.) *Evolution of Nervous Systems 2e. vol. 2, pp. 1-52*. Elsevier, Academic Press.
- (2017) Andres*, B., K Padian, TB Rowe, CJ Bell, MA Brown, JC Sagebiel*, TM Lehman, and JR Cunningham. *Case 3728—*Quetzalcoatlus northropi* (Reptilia, Pterosauria): proposed availability and attribution of authorship to lawson, 1975*. The Bulletin of Zoological Nomenclature 74, 34-37.

- (2016) Rowe, TB, Z-X Luo, RA Ketcham, JA Maisano*, and MW Colbert*. (2016). ***X-Ray computed tomography datasets for forensic analysis of vertebrate fossils***. Nature Scientific Data, 3: 160040.
- (2016) Stocker*, MR., SJ Nesbitt*, KE. Criswell*, WG Parker*, LG Witmer, TB Rowe, R Ridgley, and M Brown. ***A dome-headed stem archosaur exemplifies convergence among dinosaurs and their distant relatives***. Current Biology 26: 1-7.
- (2016) Rowe, TB, and GM Shepherd. ***The Role of Ortho-Retronasal Olfaction in Mammalian Cortical Evolution***. Journal of Comparative Neurology, 524(3): 471-495. DOI:10.1002/cne.23802. Invited paper for special volume on Cortical Evolution.
- (2014) Racicot, R* and TB Rowe. ***Endocranial anatomy of a new fossil porpoise (Odontoceti: Phocoenidae) from the Pliocene San Diego Formation of California***. Journal of Palaeontology, 88(4): 652-663.
- (2014) Kirk, EC, P Daghighi, TE Macrini*, BAS Bhullar*, and TB Rowe. ***Cranial anatomy of the Duchesnean primate Rooneyia viejaensis: New insights from high resolution computed tomography***. Journal of Human Evolution, 74:82-95.
- (2013) Berlin*, JC, EC Kirk, and TB Rowe. ***Functional implications of ubiquitous semicircular non-orthogonality in mammals***. PLoS ONE PONE-D-13-32641R1 10.1371/journal.pone.0079585
- (2013) Balanoff*, AM, GS Bever*, TB Rowe, and M Norell. ***Evolutionary Origins of the Avian Brain***. Nature 501 (7465): 93-96. Doi: 10.1038/nature12424.
- (2013) Nydam, R, TB Rowe, and RL Cifelli. ***Lizards and snakes from the Terlingua local fauna (Late Campanian) Aguja Formation, Texas, with comments on the distribution of paracontemporaneous squamates throughout the Western Interior of North America***. Journal of Vertebrate Paleontology, 33(5):1081-1099.
- (2012) Green, PA, B Van Valkenburgh, B Pang, D Bird, TB Rowe, and A Curtis. ***Respiratory and olfactory turbinal size in canid and arctoid carnivorans***. Journal of Anatomy, 221: 609-621. doi:10.1111/j.1469-7580.2012.01570.x
Supplemental material: [Carnivorans on DigiMorph.org](http://Carnivorans.on.DigiMorph.org)
- (2012) Giannini, NP, TE Macrini*, JR. Wible, TB Rowe, and NB Simmons. ***The internal nasal skeleton of the bat Pteropus lylei (Chiroptera: Pteropodidae)***. Annals of the Carnegie Museum of Natural History, 81(1): 1-17.
- (2012) Sigurdson*, T, AK Huttenlocker, SD Modesto, TB Rowe, and R Damiani. ***Reassessment of the morphology and paleobiology of the therocephalian Tetracynodon darti (Therapsida), and the phylogenetic relationships of Baurioidea***. Journal of Vertebrate Paleontology. 32(5): 1113-1134.
- (2012) Bhullar*, BAS, J Marugán-Lobón, F Racimo, GS Bever*, TB Rowe, M Norell, and A Abzhanov. ***Birds have Pedomorphic Dinosaur Skulls***. Nature 487: 223-226. doi:10.1038/nature11146

- reviewed in the NY Times, May, 2012
- (2011) Ekdale*, E and TB Rowe. ***Morphology and variation within the bony labyrinth of zhelestids (Mammalia, Eutheria) and other therian mammals***. Journal of Vertebrate Paleontology, 31 (3): 658-675. DOI: 10.1080/02724634.2011.55728
- (2011) Rowe, TB, TE Macrini*, and Z-X Luo. ***Fossil Evidence on Origin of the Mammalian Brain***. Science 332: 955-957. DOI: 10.1126/science.1203117. Plus Supplemental Online Material (26. pp) and data supplement at www.DigiMorph.org.
- See also introductory commentary to this article: Northcutt, RG (2011) ***Evolving Large and Complex Brains***. Science 332, 926-927. DOI: 10.1126/science.1206915
- Reviewed in *Nature News*: Callaway, E (2011). ***Mammalian brain followed scented evolutionary trail***. Nature News doi:10.1038/news.2011.302
- Reviewed in *Nature*: Anon (2011). ***Paleontology: Stronger smell, bigger brain***. Nature 473, 422-422 doi:10.1038/473422a
- (2011) Rowe, TB, and LR Frank. ***The Vanishing Third Dimension***. Science, 331: 712-714.
- (2011) Rowe, TB, H-D Sues, and RR Reisz. ***Dispersal and Diversity in the earliest North American sauropodomorph dinosaurs***. Proceedings B, Royal Society of London, 278(1708): 1044-10530; doi: 10.1098/rspb.2010.1867; + 87 pp electronic supplemental data.
- Reviewed in *Nature*: Anon (2011). Paleontology: Introducing *Saraksaurus* ***Nature*** 467, 755-755 doi:10.1038/467755c
- (2010) Cantino, PD, K deQueiroz, WS Alverson, DA Baum, C Brochu, H Bryant, D C Annatella, JA Ckarke, PR Crane, MJ Donoghue, T Eriksson, JA Gauthier, Ken Halanych, D. Hibbett, KA Kron, M. Laurin, MSY Lee, A Minelli, BD Mishler, G. Moore, R. Olmstead, F Pleijel, JM Porter, GW Rouse, TB Rowe, C Schander, P Sundberg, M Thollessen, M Wolsan, and AR. Wyss. ***Phylocode: A Phylogenetic Code of Biological Nomenclature Version 4c***.
- (2010) Archibald, D, WA Clemens, K Padian, TB Rowe, N MacLeod, PM Barrett, A Gale, P Holroyd, H-D Sues, NC. Arens, JR Horner, GP Wilson, MB Goodwin, CA Brochu*, DL Lofgren, SH Hurlbert, JH Hartman, DA Eberth, PB Wignall, PJ Currie, A Weil*, GV. Prasad, L Dingus, V Courtillot, A Milner, A Milner, S Bajpal, D Ward, and A Sahni. ***Cretaceous Extinctions: Multiple Causes***. Science, 328: 973.
- (2009) Oota, S, K Mekada, Y Fujita, J Humphries, K Fukami-Kobayashi, Y Obata, TB Rowe, A Yoshiki. ***Four-dimensional quantitative analysis of the gait of mutant mice using coarse-grained motion capture***. Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2009:5227-30. DOI 10.1109/IEMBS.2009.5334287

- (2009) Norell, M, PJ Mackovicky, GS Bever*, AM Balanoff*, JM Clark, R Barsbold, and TB Rowe. *A review of the Mongolian Cretaceous Dinosaur Saurornithoides (Troodontidae, Theropoda)*. American Museum Novitates, no 3654, 63 pp.
- (2009) Nesbitt*, SJ, RB Irmis, WG Parker*, ND Smith, AH Turner, and TB Rowe. (2009). *Hindlimb Osteology and Distribution of Basal Dinosauromorphs from the Late Triassic of North America*. Journal of Vertebrate Paleontology, 29(12): 498-516.
- (2009)# Oota, S, K Mekada, Y Fujita, J Humphries, K Fukami-Kobayashi, Y Obata, TB Rowe, A Yoshiki. *Four-Dimensional Quantitative Analysis of the Gait of Mutant Mice Using Coarse-Grained Motion Capture*. Annual International Conference of the IEEE: Engineering in Medicine and Biology Society: 5227-5230.
- (2008) Colbert*, MW., and TB Rowe. *Ontogenetic Sequence Analysis: Using Parsimony to Characterize Developmental Sequences and Sequence Polymorphism*. Journal of Experimental Zoology (Molecular Development and Evolution) 310B:1-19.
- (2008) Rowe. TB, TH Rich, P Vickers-Rich, M Springer, and MO Woodburne. *The Oldest Platypus, and its Bearing on Divergence Timing of the Platypus and Echidna Clades*. Proceedings National Academy of Sciences 105:1238-1242 + online supplementary information.
- Reviewed in *Nature News*: Ledford, H (2008). *Platypus Fossil Suggests Slow Evolution*. *Nature News* doi:10.1038/news.2008.517
- Reviewed in *New York Times*: Fountain, H (2008). *120 Million Years Old, fossil Shows Divergence of Platypus and Anteater*. *New York Times*, January 29, 2008.
- (2007) Rowe, TB. *Introduction to the digital republication of "Memoirs on the Extinct Wingless Birds of New Zealand, with an Appendix on those of England, Australia, Newfoundland, Mauritius, and Rodriguez"* by Sir Richard Owen. <http://www.lib.utexas.edu/books/nzbirds/>
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Digital Morphology, an NSF Digital Library at The University of Texas:

<http://digimorph.org>

DigiMorph – Web Statistics Page: [http://www.digimorph.org/cgi-](http://www.digimorph.org/cgi-bin/awstats.pl?config=digimorph)

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High-Resolution X-ray CT Facility: www.ctlab.geo.utexas.edu/

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Science Nation http://www.nsf.gov/news/special_reports/science_nation/bringingfossils.jsp

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Recent Invited Presentation:

Phi Beta Kappa Visiting Scholar 2014-2017

University of Arizona, Tucson (10/2014)

University of Florida, Gainesville (03/2015)

University of Oklahoma, Norman (03/2015)

Knox College, Galesburg, Ill.(01/2015)

Iowa State University, Ames (4/2015)

Creighton University, Omaha (04/2015)

University of Tennessee, Knoxville (09/2015)

University of Oregon, Eugene (04/2015)

Birmingham-Southern College (5/2016)

Mercer University (4/ 5-7/2017)

Geomorphic Processes Promoting Mammoth Burial and Skeletal Preservation in North Central New Mexico. 2016. Jennifer Muus, Grant Meyer, Les

McFadden, Bruce Huckell, Chris merriman, and Timothy Rowe. American Quaternary Association Annual Meeting, Santa Fe.

The Role of Ortho-Retronasal Olfaction in Mammalian Cortical Evolution. Cajal Society and Journal of Comparative Neurology, Cortical Evolution Conference, Toledo, Spain (May 18, 2015) [invited lecture]

Fossil Evidence on Origin of the Mammalian Brain. Yale School of Medicine, Department of Neurobiology: January 28, 2015

Forensic Paleontology. University of Connecticut, Institute for Integrative Geology: January 28, 2015.

Computed Tomography in Research Collections University of New Mexico, Albuquerque, Geology Department Seminar, September 5, 2014.

Computed Tomography in Research Collections. (Keynote speaker) NSF iDigBio Workshop, University of Texas, Austin, April, 30 2014.

Sarhsaurus and the Austin Science and Nature Center Dino Pit: Speaker, and Bronze Sculpture Presentation to Sarah and Earnest Butler, 2013 Harvey Penick Award. October 22, 2013

Science and the Art of Fugue. UT Wisdom Speaker Series. **October 15, 2013**

A Decade of DigiMorph: Projections from a 10-year-old experiment in 3D data Acquisition, Management, and Dissemination. Geological Society of America, Special Session on Digitizing Fossils, November 6, 2012.

A Decade of DigiMorph: Projections from a 10-year-old experiment in 3D data Acquisition, Management, and Dissemination. International Conference on Fossil Digitization and Digital Collection Data Handling, Museum fur Naturkunde, Berlin September 24-26, 2012.

The Disappearing Third Dimension. NSF iDigBio Paleocollections Workshop, April 26-28, 2012, University of Florida, Gainesville.

Fossil Evidence on Origin of the Mammalian Brain. University of Louisville Medical School, Department of Anatomical Sciences and Neurobiology. March 19, 2012.

Fossil Evidence on Origin of the Mammalian Brain. University of Tennessee Health Science Center. December, 2011.

High Resolution X-ray Computed Tomography, Digital Collections and a Renaissance in Morphology. (Keynote speaker) 2nd International Congress on Invertebrate Morphology. Harvard University, June 20-23, 2011.

High Resolution X-ray Computed Tomography, Digital Collections and a Renaissance in Morphology. Sixth Triennial Conference on Secondary Adaptation of Tetrapods to Life In Water. San Diego State University, June 6-10, 2011.

High Resolution X-ray Computed Tomography, Digital Collections and a Renaissance in Morphology. The Rank Prize Funds Symposium on High Resolution X-ray Imaging (Sponsored by University of Manchester and Queen Mary University of London). October 11-14, 2010.

Fossil Evidence on the Evolution of the Brain and Sensory Systems in Mammals. Geology and Geophysics Department, Yale University, November 2011.

Systematics and Evolution of Sensory Systems in Mammals and other Amniotes. Ecology and Evolutionary Biology Colloquium, Harvard University, April 2010.

Systematics and Evolution of Sensory systems in Mammals and other Amniotes. Inaugural Seminar, Guildler School of Graduate Education, American Museum of Natural History, February, 2009.

Recent Abstracts:

- 2019 - E. A. Hoffman, T. B. Rowe. LARGE CLUTCH OF JURASSIC MAMMALIAMORPH PERINATES AND EVOLUTION OF MAMMALIAN REPRODUCTION AND GROWTH. Internatinal Congress on Vertebrate Morphology, Prague. July 2019
- 2018 - E. A. Hoffman, T. B. Rowe. LARGE CLUTCH OF JURASSIC MAMMALIAMORPH PERINATES AND EVOLUTION OF MAMMALIAN REPRODUCTION AND GROWTH. Society of Vertebrate paleontology annual meeting.
- 2017 – E. A. Hoffman and T. B. Rowe. POSTCRANIAL ANATOMY OF *KAYENTATHERIUM WELLESII*: SWIMMING ADAPTATIONS IN A MAMMALIAMORPH FROM THE EARLY JURASSIC. Society of Vertebrate paleontology annual meeting.
- 2016 Huckell, Bruce B., Timothy B. Rowe, Leslie D. McFadden, Grant A. Meyer, Christopher W. Merriman, and Jennifer Muus. The Hartley Mammoth Site, North-Central New Mexico. Poster presented at the 81st Annual Meeting of the Society for American Archaeology, Orlando.
- 2016 – THE HARTLEY MAMMOTH SITE, NORTH-CENTRAL NEW MEXICO. BB Huckell, TB Rowe, LD McFadden, GA Meyer, CM, J Muus. American Quaternary Association annual meeting.
- 2015 – ITERATIVE EVOLUTION OF ARCHOSAURMORPH BODY PLANS THROUGH THE MESOZOIC: CRANIAL CONVERGENCE ON PACHYCEPHALOSAURIDS BY A NEW TRIASSIC ARCHOSAURIFORM. MR Stocker, SJ Nesbitt, KE Criswell, WG Parker, MA Brown, T Rowe. Integrative and Comparative Biology.
- 2015 – VESTIBULAR SENSITIVITY IN EXTANT MONOTREMES AND IN MESOZOIC MAMMALIAMORPHS. P Viola, A Kemp, EC Kirk, BAS Buhllar,

- RL Cifelli, RN Martinez, GW Rougier, RV Wallace, and TB Rowe. Society of Vertebrate paleontology annual meeting.
- 2015 – ORIGIN OF ORTHO-RETRONASAL OLFACTION IN BASAL CYNODONTS AND ITS ROLE IN MAMMALIAN CORTICAL EVOLUTION. TB Rowe and GM. Shepherd. Society of Vertebrate Paleontology annual meeting.
- 2015 – GEOMORPHIC PROCESSES PROMOTING MAMMOTH BURIAL AND SKELETAL PRESERVATION IN NORTH CENTRAL NEW MEXICO. J Muus and TB Rowe. Geological Society of America annual meeting.
- 2014 – OLFATORY EVIDENCE ON THE TERRESTRIAL ORIGINS OF MONOTREMATA. R. Simon and T. B. Rowe. Integrative and Comparative Biology.
- 2013 – GLOBAL SENSITIVITY OF THE MAMMALIAN HEAD TO ROTATION: IMPORTANCE OF SEMICIRCULAR CANAL ORIENTATION FOR LOCOMOTOR AGILITY IN MAMMALS. J. D. Berlin, E. C. Kirk, M. C. Rogers, T. B. Rowe, and T. E. Hullar. Integrative and Comparative Biology.
- 2012 – A DECADE OF DIGIMORPH: PROJECTIONS FROM A 10-YEAR-OLD EXPERIMENT IN 3D DATA ACQUISITION, MANAGEMENT, AND DISSEMINATION. TB Rowe, GSA Annual Meeting, Charlotte
- 2012 – THE ORIGIN OF THE AVIAN BRAIN BASED ON A VOLUMETRIC ANALYSIS OF ENDOCRANIAL EVOLUTION WITHIN COELUROSAURIA. AM Balanoff, GS Bever, TB Rowe, MA Norell. Society of Vertebrate Paleontology Annual Meeting.
- 2012 – LIZARDS AND SNAKES OF THE TERLINGUA LOCAL FAUNA (LATE CAMPANIAN), AGUJA FORMATION, TEXAS, AND THE DISTRIBUTION OF PARACONTEMPORANEOUS SQUAMATES IN WESTERN NORTH AMERICA. RL Nydam, TB Rowe, RL Cifelli. Society of Vertebrate Paleontology Annual Meeting.
- 2012 – COMBINING MECHANICAL PREPARATION AND X-RAY COMPUTED TOMOGRAPHY TECHNIQUES TO VISUALIZE OBSCURED MORPHOLOGY IN A BASAL SAUROPODOMORPH DINOSAUR. AD Marsh, MA Brown, MW Colbert, TB Rowe. Society of Vertebrate Paleontology Annual Meeting.
- 2011 – REASSESSMENT OF THE MORPHOLOGY AND PALEOBIOLOGY OF THE THEROCEPHALIAN TETRACYNODON DARTI (THERAPSIDA) BASED ON CT-SCANNING, AND THE PHYLOGENETIC RELATIONSHIPS OF BAURIOIDEA. T Sigurdson, A Huttenlocker, S Modesto, T Rowe. Society of Vertebrate Paleontology Annual Meeting.
- 2011 – OLDEST FOSSIL EVIDENCE ON ORIGIN OF THE MAMMALIAN BRAIN. TB Rowe, T Macrini, L Zhe-Xi. Society of Vertebrate Paleontology Annual Meeting.

2010 – COMMUNITY REPOSITORIES FOR VOXEL DATASETS AND DERIVATIVE 3D VISUALIZATIONS: OPPORTUNITIES AND OBSTACLES IDENTIFIED BY THE DIGIMORPH. ORG PROJECT. TB Rowe. American Society of Physical Anthropology.

Technical Reports:

- Rowe, T., and W. J. Breed, 1974. Preliminary Report for Paleontological Investigations on Proposed Santa Fe Railroad Corridors in Northwestern New Mexico. Prepared for Santa Fe Railroad Co., Albuquerque, 26 pp.
- Rowe, T., 1979. Report on the Paleontological Resources on Navajo Tribal Lands Leased by El Paso Coal Company, near Burnham, New Mexico. Prepared for El Paso Coal Company, El Paso, 40 pp.
- Rowe, T., 1979-1981. Fossils of New Mexico. [A major public exhibit on the diversity and significance of New Mexico's paleontological resources, commissioned by the State of New Mexico (Senate Bill 224, 1979), written by T. Rowe, and produced by the Museum of Northern Arizona.]
- Cifelli, R. L., and T. Rowe, 1979. Salt River Project Pumped Storage Project Environmental Studies: Paleontology. Prepared for Wirth Associates, Phoenix, 24 pp.
- Rowe, T., 1980. Report on the Paleontological Resources of the Kaiparowitz and Alton Coal Fields, and Associated Transportation Corridors in Southern Utah and Northern Arizona. Prepared for Environmental Research and Technology, Inc., Colorado, 46 pp.
- Rowe, T., 1980. Paleontological Resources on 461 Acres of the ConPaso Navajo Coal Lease, near Burnham, San Juan County, New Mexico. Prepared for El Paso Coal Company, El Paso, 21 pp.
- Rowe, T., and F. A. Sandbag, 1980. Summary of the Paleontological Resources on Lands Involved in Salt River Project's Blanca-Nagged Coal Project. Prepared for Salt River Project, Phoenix, 68 pp.
- Rowe, T., 1982. Paleontological Resources on the Public Service Company of New Mexico San Juan Generating Station Lease. Prepared for Woodward-Clyde Consultants, San Francisco and Walnut Creek, 98 pp.
- Rowe, T., 1985. Paleontological Analysis, HNG Interstate Transwestern and Mojave Natural Gas Pipeline (Texas, New Mexico, Arizona, California). Prepared for Woodward-Clyde Consultants, San Francisco and Walnut Creek, 49 pp.
- Rowe, T., 1986. Paleontology Technical Report: Williams Telecommunications Company, Proposed Fiber Optics Communications System. Prepared for Woodward-Clyde Consultants, San Francisco and Walnut Creek, 51 pp.
- Rowe, T., and M. Winans 1991. Report on the Feasibility of Digital Publication of the Bibliography of Fossil Vertebrates. Prepared for BFV Advisory Committee of the Society of Vertebrate Paleontology, 38 pp.

Professional Society Membership:

Geological Society of America
 Society of Vertebrate Paleontology
 Palaeontological Society
 International Society for Vertebrate Morphology
 International Society for Phylogenetic Nomenclature

Professional Service:

2013 - present Editorial Board, *Nature Scientific Data*.
 2010 - 2013 Editorial Board, *Geosciences*
 2006 - 2007 Host Committee, 67th Annual Meeting, Society of Vertebrate Paleontology
 1995 - 2002 Publications Committee, Society of Vertebrate Paleontology
 1993 - 2002 Information Technologies Committee, Society of Vertebrate Paleontology
 1991 - 1998 Society of Vertebrate Paleontology, Information Advisory Committee to the bibliography of fossil Vertebrates
 1998 - 1999 Society of Systematic Biologists – Phylocode Working Committee
 1995 - 1998 Chair, Estes memorial Prize Committee
 1989 Host Committee, 49th Annual Meeting, Society of Vertebrate Paleontology

The University of Texas:

2012 - 2015 Member, Graduate Assembly
 2009 – 2012 Jackson School, Chair Paleontology ERG
 2007 - present Jackson School Admissions and Support Committee
 2005 - 2007 University of Texas Information Technology Committee
 1996 – 2000 1996-2000
 1994 - 1996 University of Texas Press Faculty Review Committee
 1994 - 1995 University Multimedia Building Design Committee
 1995 - 1996 University Multimedia and Information Technologies Committee

University of Texas College of Natural Sciences:

2000 - present Graduate Studies Committee, School of Biology EEB
 1995 - 2001 Computer Committee, College of Natural Sciences
 1991 - 1995 Chair, College of Natural Sciences Computer Committee
 1993 - 1994 Gulf Coast Geology Education Consortium Committee
 1991 - 1994 Planning Board, Institute for Math and Science Education
 1991 - 1993 College of Natural Sciences Strategic Planning Committee

University of Texas Department of Geological Sciences:

1995 – present Budget council
 1986 – present DGS Graduate Studies Committee
 2014 – present Executive Committee, Vertebrate Paleontology Laboratory
 2007 – 2009 Member, Graduate Curriculum committee

2007 - 2009	Chair, Undergraduate Education Search Committee
2009 – 2012	Chair, Jackson School Paleontology Education & Research Group
2006 - 2007	Chair, Teaching Excellence Committee
2005 - 2007	Jackson School Strategic Planning Committee
2000 - 2001	Chair, Teaching Excellence Committee
1998 - 2001	Member, Teaching Excellence Committee
1996 - 1997	Chair, Vertebrate Paleontology Faculty Search Committee
1994 - 1997	Chair, Geological Sciences Computer Committee
1989 - 1996	Geological Sciences Staff Oversight Committee
1989 - 1995	Geological Sciences Graduate Oversight Committee
1987 - 1994	Geological Sciences Undergraduate Advising and Awards Committee
1989 - 1991	Chair, Geological Sciences Postdoc, Sabbatical, and Lectureship Committee
1987 - 1991	Geological Sciences Library Committee

Texas Memorial Museum:

1998 - 2014	Director, Vertebrate Paleontology Laboratory
1998 - 2009	Exhibits Committee
1998 - 2002	The Dino Pit Fund Raising Committee

Other:

1993	Texas Association of Science Teachers (CAST), Host Committee
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Students Supervised (completed degrees):***I. Postdoctoral Fellows Supervised:***

- Dr. Trond Sigurdson 2010-2012 (Co-supervised with Dr. Kevin Padian, UC Berkeley).
Current position: Dinosaur Institute, Natural History Museum of Los Angeles County, Los Angeles, CA, USA
- Dr. Krister Smith 2007-2008 (PhD, Yale, 2007)
Current position: Curator, Senckenberg Museum, Frankfurt, Germany.
- Dr. Jessica Maisano 2000-2004 (PhD, Yale, 2000)
Current Position: Facility Manager, UTCT
- Dr. Oscar Alcober 1997-1998 (PhD University of San Juan, Argentina, 1996)
Current Position: Director, Museo de Ciencias Naturales, Universidad Nacional de San Juan, Argentina

II. Completed Doctoral Dissertations Supervised:

- Rachel Simon Wallace, PhD 2018. A new close mammal relative and the origin and evolution of the mammalian central nervous system.
Current Position: Instructor of Anatomy, UT Dell Medical School

- Adam Marsh, PhD 2018. Contextualizing the evolution of theropod dinosaurs in western North America using U-Pb geochronology of the Chinle Formation and Kayenta Formation on the Colorado Plateau.
Current Position: Resource Manager, Petrified Forest National Park
- William Parker PhD 2014. Phylogeny, Taxonomy and Evolution of Aetosauridae.
Current Position: Chief Paleontologist, Petrified Forest National Park, Arizona.
- Jeri Rodgers PhD 2011. Comparative Morphology of the Vestibular Semicircular Canals in Therian Mammals.
Current Position: Executive Coordinator Southern Teacher's Association.
- Eric Ekdale PhD 2009. Variability in the Bony Labyrinth in living and extinct placental mammals.
Current Position: Lecturer, UC San Diego.
- Nina Triche PhD 2007. Systematics, Biogeography, and Evolutionary History of Fossil and Extant Penguins.
Current Position: Government of Western Australia, Perth, Petroleum Regulatory Commission.
- Thomas Edward Macrini Ph.D. 2006. The Evolution of Endocranial Space in Mammals and Non-Mammalian Cynodonts.
Current position: Associate Professor, St. Mary's University, San Antonio, Texas.
- Ronald S. Tykoski Ph.D. 2005. Anatomy, Ontogeny and Phylogeny of Coelophysid Theropods.
Current Position: Curator of Paleontology, Ross Perot Museum of Natural History, Dallas
- Jonathan Franzosa, Ph.D. 2004. Evolution of the Brain in Theropd dinosaurs.
Current Position: Science Teacher, Cincinnati County Day School.
- Chaille, John, Ph.D., 2001. The Relationship of Mammalian Morphometric Diversity to Environmental Variations and Its Use in Paleoclimatic Reconstructions. (co-supervisors: E. L. Lundelius, Jr. and T. Rowe).
Current Position: retired
- Pamela Owen, Ph.D. 2000. Phylogenetic Relationships Among American Badgers (Taxidiinae) and the Evolution of the Badger Ecomorph. (co-supervisors: E. L. Lundelius, Jr. and T. Rowe).
Current Position: Assistant Director, Texas Memorial Museum.
- Matthew W. Colbert, Ph.D. 1999. – Patterns of Evolution and Variation in the Tapiroidea (Mammalia: Perissodactyla).

Current Position: Research Associate, University of Texas High Resolution X-ray Computed Tomography Facility.

John W. Merck, Jr. Ph.D. 1997. Phylogenetic Analysis of Euryapsidan reptiles.
Current Position: Senior Lecturer and Assistant Director, Earth, Life and Time Program, University of Maryland.

Christopher Andrew Brochu, Ph.D. 1997. Phylogenetic systematics and taxonomy of Crocodylia. The University of Texas at Austin, 466 pp.
Current Position: Professor, Department of Geology, University of Iowa.

Jeffrey Gill Pittman, Ph.D. 1992 - Stratigraphy, Lithology, and Depositional Environments of Dinosaur Track-bearing Beds of the Gulf Coastal Plain.
Current Position: Instructor, Lamar University, Beaumont Tx.

Gorden Lee Bell, Jr., Ph.D. 1992 - A Systematic Revision of the Mosasauridae (Reptilia, Squamata) Based on a Phylogenetic Model of Relationships.
Current Position: Geologist, Resource Management Division, National Park Service, Guadalupe Mountains National Park, Tx (Retired).

III. Completed Masters Theses Supervised:

Eva Amelia Hoffman MS 2018. Large Clutch of Jurassic Mammalianomorph Perinates and Evolution of Mammalian Reproduction and Growth,
Current Position: PhD aspirant, Harvard University.

Benjamin Breedan (MS 2015). Observations on the osteology of *Scutellosaurus lawleri* Colbert, 1981 (Ornithischia: Thyreophora) on the basis on new specimens from the Lower Jurassic Kayenta Formation of Arizona.
Current Position: PhD aspirant University of Utah, Salt Lake

Laura Brenskelle (MS 2015). Assessing the Database Practices of Natural History Collections.
Current Position: PhD aspirant University of Florida, Gainesville

Zachary Morris, (MS 2013). Ontogeny of the skeleton in *Monodelphis domestica* – a Study Using Ontogenetic Sequence Analysis.
Current Position: PhD aspirant, Ecology and Evolutionary Biology, Harvard University.

Rachel Simon, (MS 2014). Cranial osteology of the long-beaked echidna, and the definition, diagnosis, and origin of Monotremata and its major subclades.
Current Position: PhD Candidate UT Jackson School of Geosciences

Ashley Latimer, (MS 2014). The Dentition of the platypus *Ornithorhynchus anatinus*.
Current Position: PhD aspirant, University of Zurich

- Adam Marsh (M.S. 2013). The Osteology of *Sarahsaurus aurifontanalis* and Geochemical Observations of the Dinosaurs from the Gold Spring Quarry, Kayenta Formation, Arizona
Current Position: Resource Manager, Petrified Forest National Park
- Heather Ahrens (M.S. 2010). Craniodental Morphology of the Raccoon, *Procyon lotor*, and the relationships of Procyonidae.
Current Position: Assistant Professor of Biology, High Point University, High Point, NC
- Amy Balanoff M.S. 2003. Osteological Description of an Embryonic skeleton of the Extinct Elephant Bird, *Aepyornis* (Paleognathae: raritae). With CD-ROM supplement
Current Position: Assistant Professor, Department of Neurosciences, Johns Hopkins University.
- David Laurence DuFeau, MS 2003. The Cranial Anatomy of the Theropod Dinosaur *Shuvuuia deserti* (Coelurosauria: Alvarezsauridae), and its bearing upon coelurosaurian phylogeny, with CD-ROM supplement.
Current Position: Lecturer, Department of Pathology and Anatomical Sciences, University of Missouri Medical School.
- Nina Triche, M.S. 2003. MS Cranial Osteology of Caiman crocodiles and implications for its systematic placement. With CD-ROM supplement.
Current Position: Government of Western Australia, Perth, Petroleum Regulatory Commission.
- Gerald Grellet-Tinner, MS 2001. The Use of Eggs and Eggshells in Phylogenetic Analysis.
Current Position: Unknown (formerly Assistant Professor, South Dakota School of Mines).
- Thomas Edward Macrini, MS 2000. High Resolution X-ray Computed Tomography (CT) of the skull of an Extant Opossum (*Monodelphis domestica*) and a comparison of its Ontogeny to Synapsid Phylogeny.
Current Position: Associate Professor of Biology, St. Mary's University, San Antonio.
- Ronald S. Tykoski, MS 1998. The Osteology of the Theropod Dinosaur *Syntarsus kayentakatae*.
Current Position: Curator of Paleontology, Ross Perot Museum of Natural History, Dallas
- Mary Stewart Miller, M.A. 1997. Late Campanian squamate reptiles of the Terlingua Local Fauna
Current Position: Librarian, Ortega Elementary School, Austin
- Kyoko Kishi, M.A. 1995 - Computer Multimedia Software for Education in Geology.

Current Position: Associate Director of Multimedia, University of Texas Center for Instructional Technologies (Retired).

Mary Amy Sheldon, M.A. 1993 - Ontogeny of Selected North American Mosasaurs.

Current Position: High School Teacher, Alabama (Retired)

Anne Inger Weil, M.A. 1992 - Stratigraphic and Faunal Analysis of Cretaceous Mammal Site, Big Bend.

Current Position: Professor, School of Medicine, University of Oklahoma, Tulsa

Christopher Andrew Brochu, M.A. 1992 - Comparative Limb Ontogeny of Fossil and Recent Crocodylotarsan Archosaurs.

Current Position: Professor, Department of Geology, University of Iowa

IV. Undergraduate Honors Theses Supervised:

Paul David Polly, B.A. 1987 - Relationships of the Procyonidae, Canidae, and Felidae: A Cladistic Analysis.

Current Position: Associate Professor, University of Indiana, Bloomington.

Sharon Bruyere, B.S. 1994. Software Applications in Authorware.

Current Position: Image analyst, US Navy

Paul A. Viola, B.A. 2015. (committee member) Reconstructing Vestibular Sensitivity in Early Mammalian Evolution (E. C. Kirk, Supervisor, Department of Anthropology).

V. Other Student Supervision:

Ronald Johns (1987, 1994) MS, PhD

Karen Havholm (1990) PhD

Andrew Czebiegak (1990) PhD student withdrew

Rafael de Sa (1991) PhD

Karen Havholm, (1991) PhD

Robert Barnett (1991) MS withdrew

Timothy Thompson (1991) MA student

John Huelsenbeck, (1992) (Geological Sciences) PhD 1995

Rickard Toomey III, (1992) PhD

Hillary Tully (1992) MA student

Trudy Pfaffenback (1992) PhD

Alex Duncan (1992) PhD student withdrew

Colin Sumrall (1992) MA

Todd Reeder (1993) PhD
Mike Dixon (1993) PhD
Paul Chipendale (1993) PhD
David Froehlich (1993) PhD
Lauren Ammerman (1993) PhD
Warrren Woods (1993) PhD examining member
Susan Stinson (1993) BS

Katherine Romanak (1994) PhD
J. Chris Sagebiel (1994) MS
Ken Halanych (1994) PhD
Sharon Messinger (1994) PhD
Javed Mostafa (1994) PhD
Christopher Austin (1994) PhD
Tom Stidham (1994) BS

John Huelsenbeck, (1995) PhD
Nina Bigay (1995) PhD
Ian Gordon (1995) MS
Robin Balinsky (1995) MS

Colin Sumrall (1996) PhD
Stephen Graham (1996) PhD examining member
John Wiens (1996) PhD
Chris Straganac (1996) BS

Karen Devlin (1997) PhD
Martha Ashworth (1997) MS withdrew
Catherine De Nooyer (1997) PhD student withdrew

Gad Perry (1998) PhD
Jimmy McGuire (1998) PhD

David Froehlich (1999) PhD

Steve Poe (1999) PhD

Andy Gluesenkamp (2001) PhD
Nathan Simmons (2001) PhD examining member
Brian Andress (2001) BS

Wendy Hodges (2002) PhD
Chandan Kumar (2002) PhD examining member

Holly Nance (2003) MS
Jackson Dodd (2003) PhD student – withdrew

Lyndon K. Murray (2004) PhD
Bryan Wilbur (2004) PhD

Gabriel Bever (2005) PhD
Jackson Dodd (2005) PhD student - withdrew
Murat Ali Maga (2005) PhD
Chris Jurgens (2005) PhD

Louis G. Zachos (2006) PhD
Jonathan Wagner (2006) PhD student
Chandan Kumar (2006) PhD
Farah Welch (2006) MS student – withdrew

Christopher Jass (2007) PhD
Jennifer C. Olori (2007) PhD
Dennis Ruiz (2007) PhD

Murat Maga (2008) PhD
Lyndon Murray (2008) PhD
Jou-An Hou (2008) DMA

Bhart-Anjan S. Bhullar (2009) MS, PhD (Harvard)
Sebastian Egberts (2009) MS
Neil Adam Smith (2009) PhD
Sunkyung Hwang (2009) DMA
Yi-Hui Wu (2009) DMA
Remigijus Sabaliauskas (2009) DMA

Kerin M Claseon (2010) PhD
Clint A. Boyd (2010) PhD
Michelle R. Stocker (2010) PhD
Heather E. Ahrens ((2010) MS
Travis Wicks (2010) MS
Elizabeth S Lee (2010) DMA

Adam Smith (2011) PhD
Louis Zachos (2011) PhD
Katherine Chriswell (2011) PhD
Kyle Womack (2011) PhD

Christian O. George (2012) PhD

Aaron A. Jones (2013)
Michelle Stocker (2013) PhD
Reina Harding (2013) BS honors

Jun Seo (2014) DMA
Yi Xin (2014) DMA (Supervisor: Bion Tsang)
Alicia Powers Kennedy (2014) PhD – withdrew

Zhiheng Li (2015) PhD
Peter Toth (2015) DMA (Supervisor: Anton Nel)

Lauren English (2016) PhD
William Gelnaw (2016) PhD
Paul Viola (2016) BS honors

Lauren English (2018) PhD
James Profett (2018) PhD
Michael Guida (2018) DMA (Supervisors: Anton Nel; John Turci-Escobar)
Leanna Lam (2018) DMA (Co Supervisors: Anton Nel, John Turci-Escobar)

Simon Scarpetta (PhD candidate)
Charles Withnell (PhD candidate)
Joseph Chan (DMA candidate)