CURRICULUM VITAE

Tonya Ann Penkrot

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Education

2010	Ph. D., Center for Functional Anatomy and Evolution, Johns Hopkins
	University School of Medicine, Baltimore, MD.
2000	B. S. in Biological Sciences and Certificate Degree in German, University of
	Pittsburgh, Pittsburgh, PA; GPA: 3.70 of 4.00; Magna cum Laude.

Appointments

2014-present	Affiliate faculty, School of Human Evolution and Social Change (SHESC),
	Arizona State University.
2011-present	Lecturer, School of Letters & Sciences, Arizona State University.
2009-2011	Laboratory instructor, School of Letters & Sciences, Arizona State
	University.
2006-2009	Postdoctoral associate, Department of Biological Sciences, Marshall
	University.

Postgraduate-level Teaching Experience

2005-2006	Teaching assistant, laboratory instructor and prosector, "Human Gross
	Anatomy," Johns Hopkins University School of Medicine.
2003-2005	Tutor and grader, "Human Gross Anatomy," Johns Hopkins University School of Medicine

- 2002-2003 Teaching assistant, laboratory instructor and prosector, "Human Gross Anatomy," Johns Hopkins University School of Medicine.
- 2001-2002 Tutor and prosector, "Human Gross Anatomy," Johns Hopkins University School of Medicine.

Undergraduate-level Teaching Experience

- 2013-present Course director, BIO 202: Human Anatomy & Physiology II, School of Letters and Sciences, Arizona State University.
- 2011-present Course director, BIO 201: Human Anatomy & Physiology I, 2-3 sections per semester plus one summer section per year, School of Letters & Sciences, Arizona State University.
- 2013-2014 Instructor, BIO 495: Undergraduate Research, Arizona State University.
- 2013-2014 Course director, BIO 494: Special Topics (Instructional Aide Training), one section, School of Letters & Sciences, Arizona State University.
- 2009-2013 Volunteer laboratory instructor BIO 494: Advanced Human Anatomy Practicum (cadaver dissection), assisted with student dissections, one to two sections per semester, School of Letters & Sciences, Arizona State University.
- 2009-2011 Laboratory instructor, BIO 201 and 202: Human Anatomy & Physiology & II, four sections per semester, School of Letters & Sciences, Arizona State University.
- 2007-2009 Course director, Human Anatomy, Department of Biological Sciences, Marshall University.
- 2001, 2002 Teaching assistant, laboratory instructor and prosector, "Summer Institute in Anatomy," Johns Hopkins University School of Medicine (for undergraduate students).

Synergistic Activities

2008 POGIL Teaching Workshop, Marshall University (March, 2008)

Service

2016	Curriculum Committee, Arizona State University, College of Integrative
	Sciences & Arts.
2016	Peer Evaluation Committee, Arizona State University, College of
	Integrative Sciences & Arts, Downtown Phoenix Campus.
2016	University Residency Appeals Committee, Arizona State University.
2014	Grade appeals committee, Arizona State University, School of Letters &
	Sciences, Downtown Phoenix campus.
2013, 2016	Intel ISEF 2013, category awards judge, Earth Sciences category, Phoenix
	Convention Center.
2011-present	Safety committee, Arizona State University, School of Letters & Sciences,
	Downtown Phoenix campus.
2009-present	Assisting with visiting high school groups and preparing laboratory
	Activities for the students, Arizona State University, School of Letters &
	Sciences, Downtown Phoenix campus.
2009-2013	Obama Scholars Program mentor, Arizona State University.
2007	Technical session moderator, Society of Vertebrate Paleontology 67 th

Research Interests

Functional morphology, paleoecology, and systematics of early Tertiary mammals Particular interest in functional morphology and paleoecology of the "Condylarthra" 3D Imaging and digital morphometrics of fossil mammals; functional morphology of early Tertiary "lipotyphlan" mammals; reassociation of isolated postcranial elements to Tertiary taxa known only from dental remains

Past Collaborators

Jonathan I. Bloch, University of Florida David W. Krause, Stony Brook University Kenneth D. Rose, Johns Hopkins University School of Medicine Suzanne G. Strait, Marshall University Shawn P. Zack, University of Arizona College of Medicine-- Phoenix

Current Projects

2011-	Collaboration with S. P. Zack (University of Arizona College of Medicine—
	Phoenix) to investigate mammalian faunal change at the boundary of the
	Torrejonian and Tiffanian North American Land Mammal Ages (NALMAs).
2010-	Collaboration with S. G. Strait (Marshall University) and S. P. Zack
	(University of Arizona College of Medicine Phoenix) to describe the
	postcrania of the microsyopid plesiadapiform Niptomomys.
2004-	Collaboration with S. G. Strait (Marshall University) and S. P. Zack
	(University of Arizona College of Medicine Phoenix) to reexamine the
	postcranial functional morphology and phylogenetic affinities of the
	amphilemurid "insectivore" Macrocranion.

Research Experience and Fieldwork

2011-2015	P.I., Field project in the Paleocene Fort Union Formation to investigate mammalian faunal change at the Torrejonian-Tiffanian boundary, Bighorn
	Basin, WY.
2006-2009	Collaboration with S. G. Strait (Marshall University) to develop the
	Paleoview 3D website, an online morphometric database of Paleocene and Eocene mammals.
2008	Society of Vertebrate Paleontology Field Conference to the Hanna and Carbon Basins.
2003-2004	Field crew, Dr. Scott L. Wing (National Museum of Natural History, Smithsonian Institution, Washington, DC), in Bighorn Basin, WY. Collection of vertebrate and plant fossils, Paleocene-Eocene boundary in

	age
2003	Field crew, Dr. Jonathan I. Bloch (South Dakota School of Mines and
	Technology, Rapid City, SD), in Crazy Mountain Basin, MT.
	Collection of mammalian fossils, Torrejonian-Tiffanian NALMAs in age
2001-2004	Field crew, Dr. Kenneth D. Rose (Johns Hopkins University School of
	Medicine, Baltimore, MD), in Bighorn Basin, WY.
	Collection of fossils, primarily Wasatchian NALMA (early Eocene) in age
1999-2000	Volunteer, Section of Vertebrate Paleontology, Carnegie Museum of
	Natural History.
	Sorted matrix from North American and Asian fossil localities
1999	Field crew, Dr. K. Christopher Beard (Carnegie Museum of Natural
	History) in Washakie Basin, WY.
	Collection of vertebrate fossils, primarily Paleocene-Eocene in age
1998-1999	Intern, Carnegie Museum of Natural History, Pittsburgh, PA, Section of
	Amphibians and Reptiles under Dr. John J. Wiens.
	Recorded morphological data on preserved lizard specimens (Sceloporus
	jarrovii))

Dissertation

Penkrot, T. A. 2010. Molar morphometrics and diet in North American condylarths. Ph. D. dissertation, Center for Functional Anatomy & Evolution, The Johns Hopkins University, School of Medicine, Baltimore, MD. 423 pp.

Graduate advisers: Drs. Kenneth D. Rose and Mark F. Teaford (Ph. D.)

Invited Presentations

2006 Penkrot, T. A. Comparative paleoecologies of North American mioclaenids and "hyopsodontids" (Mammalia: "Condylarthra") using combined dental morphometric techniques. *Journal of Vertebrate Paleontology* **26** (suppl. to 3): 109A (podium presentation, 3D Imaging Symposium)

Recent Journal Reviews

Journal of Vertebrate Paleontology Zoological Journal of the Linnean Society

Grants & Awards

2005	Theodore Roosevelt Memorial Fund Grant, American Museum of Natural
	History
2004	Samuel P. and Doris Welles Research Fund, University of California
	Museum of Paleontology

2004	Sigma Xi, Grants-in-Aid of Research
2002	Theodore Roosevelt Memorial Fund Grant, American Museum of Natural
	History
1999	Howard Hughes Medical Institute Undergraduate Biological Sciences
	Education Program Summer Internship

Professional Organizations

American Association of Anatomists, regular member (2009-present) American Society of Mammalogists, regular member (2000-present) Society for the Study of Mammalian Evolution, regular member (2009-present) Society of Vertebrate Paleontology, regular member (1999-present)

Publications

2016	Penkrot, T. A., and Zack, S. P. Tarsals of Sespedectinae (?Lipotyphla) from the middle Eocene of southern California, and the affinities of Eocene "Erinaceomorphs." <i>Journal of Paleontology</i> 36(6) : 17 pages.
2008	 Penkrot, T. A., Zack, S. P., Rose, K. D., and Bloch, J. I. Postcranial morphology of <i>Apheliscus</i> and <i>Haplomylus</i> ("Condylarthra," Apheliscidae): evidence for a Paleocene holarctic origin of Macroscelidea. <u>Mammalian Evolutionary Morphology: A Tribute to Frederick S. Szalay</u>. E. J. Sargis and M. Dagosto. Dordrecht, Netherlands, Springer: 73-106.
2005	Zack, S. P., Penkrot, T. A., Krause, D. W., and Maas, M. C. A new Apheliscine "condylarth" mammal from the late Paleocene of Montana and Alberta and the phylogeny of "hyopsodontids." <i>Acta Palaeontologica</i> <i>Polonica</i> 50 (4) : 809-830.
2005	Zack, S. P., Penkrot, T. A., Bloch, J. I., and Rose, K. D. Affinities of "hyopsodontids" to elephant shrews and a Holarctic origin of Afrotheria. <i>Nature</i> 434 : 497-501.
2002	Wiens, J. J., and Penkrot, T. A. Delimiting species using DNA and morphological variation and discordant species limits in spiny lizards (genus <i>Sceloporus</i>). <i>Systematic Biology</i> 51 : 69-91.
Abstracts	
2016	Penkrot, T. A. and Zack, S. P. Tarsal diversity of middle Eocene (Uintan) rodents from San Diego County, California. <i>Journal of Vertebrate Paleontology</i> 36A : 203A
2015	Penkrot, T. A., and Zack, S. P. Small lipotyphlan tarsals from the Eocene of San Diego County, California. <i>Journal of Vertebrate Paleontology</i> 35 (abstract volume): 192.
2014	Penkrot, T. A., and Zack, S. P. Tarsals of Sespedectinae (Eulipotyphla, Erinaceomorpha) from the middle Eocene of southern California. <i>Journal</i>

	of Vertebrate Paleontology 34 (abstract volume): 203.
2013	Penkrot, T. A., Zack, S. P., and Strait, S. G. The diversity of small
	Mammalian tarsals from Castle Gardens, earliest Eocene of Wyoming.
	Journal of Vertebrate Paleontology 33 (abstract volume): 189.
2011	Penkrot, T. A., Zack, S. P., and Strait, S. G. Tarsals of <i>Niptomomys</i>
	Mammalia: Microsyopidae) from the Castle Gardens locality, Wyoming
	(Early Eocene). <i>Journal of Vertebrate Paleontology</i> 31 (abstract volume):
	172. (poster presentation)
2008	Penkrot, T. A. Dietary diversity among Paleocene and Eocene North
	American Condylarthra (Mammalia: Eutheria). Journal of Vertebrate
	Paleontology 28 (suppl. to 3): 126A. (podium presentation)
2007	Penkrot, T. A. North American condylarth diets across the Paleocene-
	Eocene boundary: paleoecological response of one archaic group of
	mammals to global warming. Journal of Vertebrate Paleontology 27
	(suppl. to 3): 128A. (podium presentation)
2005	Penkrot, T. A. Diet and ecological partitioning among the Arctocyonidae
	(Mammalia: "Condylarthra") from the middle Paleocene through early
	Eocene of North America. Journal of Vertebrate Paleontology 25 (suppl.
	to 3): 100A. (podium presentation)
2004	Penkrot, T. A., Zack, S. P., and Strait, S. G. New postcrania of
	Macrocranion (Eutheria: Amphilemuridae) from the early Eocene,
	Bighorn Basin, WY. Journal of Vertebrate Paleontology 24 (suppl. to 3):
	101A. (podium presentation)
2003	Penkrot, T. A., Zack, S. P., Rose, K. D., and Bloch, J. I. Postcrania of
	early Eocene Apheliscus and Haplomylus (Mammalia: "Condylarthra").
	Journal of Vertebrate Paleontology 23 (suppl. to 3): 86A. (podium
	presentation)
2002	Penkrot, T. A. Species composition of <i>Apheliscus</i> from the Bighorn Basin,
	WY, with evidence of anagenetic evolution. <i>Journal of Vertebrate</i>
	Paleontology 22 (suppl. to 3): 96A. (poster presentation)