



rebecca rogers ackermann

contact details

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University of Cape Town
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curriculum vitae

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research interests

Anthropoid Variation & Evolution ❖ Evolutionary Theory ❖ Hominid Craniofacial Development & Morphology ❖ Primate Models ❖ Morphological Integration ❖ Quantitative Methods

education

Washington University in St Louis, 1998 Ph.D. Anthropology (Biological)

Thesis: A Quantitative Assessment of Variability in the Australopithecine, Human, Chimpanzee, and Gorilla Face. Primary supervisor: Richard J. Smith. Committee: James Cheverud, Glenn Conroy, Charles Hildebolt, Alan Templeton.

University of Arizona, 1994 M.A. Anthropology (Biological/Forensic)

Thesis: From Calipers to Computers: Three-Dimensional Imaging in Forensic Anthropology.
Committee: Walter Birkby, William Stini, Steve Zegura.

The University of Chicago, 1991 A.B. Anthropology (Biological)

academic positions

Associate Professor. University of Cape Town, Department of Archaeology, Faculty of Science, South Africa. In addition to research and administration, responsibilities include lecturing and coordinating courses in Human Evolution, Physical Anthropology, and Quantitative Methods at all levels (1st year – Honours), in both Archaeology and Biology. Also serve as Postgraduate Programme Coordinator. January 2008 – present.

Senior Lecturer. University of Cape Town, Department of Archaeology, Faculty of Science, South Africa. Position details as above. January 2004 – December 2007.

Lecturer. University of Cape Town, Department of Archaeology, Faculty of Science, South Africa. Position details as above. June 2000 – December 2003.

Post-doctoral Research Associate. Washington University School of Medicine, Dept of Anatomy and Neurobiology, St. Louis, Missouri. Responsibilities include leading and participating in morphometric and quantitative genetic research on tamarin and mouse skeletons in the lab of Dr. James Cheverud, and assisting in the teaching of gross anatomy in the School of Medicine. August 1998 – May 2000.

Course Lecturer, Introduction to Human Evolution. Washington University, Department of Anthropology, St. Louis, Missouri. Coordinator and lecturer for summer introductory undergraduate course. Summer 1996, Summer 1997.

Adjunct Faculty Instructor, Anatomy. Webster University, College of Fine Arts, St. Louis, Missouri. Lecturer and practical instructor in advanced undergraduate figure drawing course, teaching anatomy to artists. January – May 1999.

Laboratory Instructor, Gross Anatomy. Washington University Medical Center, Physical Therapy Program, St. Louis, Missouri. Prosect cadavers and teach gross anatomy in laboratory for Physical Therapy Program. January 1996 – May 1996.

Graduate Teaching Assistant. University of Arizona, Department of Anthropology, Tucson, Arizona. TA for both undergraduate and graduate level physical anthropology courses. ANTH 265 Human Evolution; ANTH 111 Exploring Physical Anthropology; ANTH 665 Survey of Physical Anthropology; ANTH 101 Intro to Physical Anthropology and Archaeology. January 1992 – June 1994.

grant funding

External:

2008-10 National Research Foundation, African Origins Platform. Project title: “Maximising the research, educational and tourism potential of the West Coast Fossil Park (Langebaanweg).” (PI: R Smith, R2,700,000)

2006-9 National Research Foundation, Team Grant. Project title: “Human evolution, diets and environments.” (PI: J Sealy, R3,047,172)

2005 National Research Foundation, Team Grant. (PI: J Lee-Thorp, R596,793)

2005 National Research Foundation International Science Liaison Grant (R20,000)

2003-4 National Research Foundation, Team Grant. (PI: J Lee-Thorp, R1,248,000)

2002 National Research Foundation, Team Grant. (PI: J Sealy, R456,000)

1996 National Science Foundation Dissertation Improvement Grant (\$11,750)

1996 L.S.B. Leakey Foundation Grant (\$7520)

Internal:

2009 University Research Committee Travel Grant (R27,000) and Block Grant (R8097), UCT

2009 UCT Incentive Award for Rated Researchers (R40,000)

2008 University Research Committee Block Grant (R10,427), UCT

2007 University Research Committee Travel Grant (R17,000) and Block Grant (R8007), UCT

2006 University Research Committee Block Grant (R6465), UCT

2005 University Research Committee Travel Grant (R18,000) and Block Grant (R7632), UCT

2004 University Research Committee Travel Grant, UCT (R8000)

2003 University Research Committee Team Block Grant (PI: J Lee-Thorp, R56,000)

2002 University Research Committee Team Block Grant (PI: J Sealy R34,000)

2002 University Research Committee Travel Grant, UCT (R15,000)

honours & awards

2006 Distinguished Teacher Award, University of Cape Town

1996 Washington University Dean’s Summer Fellowship Award

1995 J. Lawrence Angel Award from the National Academy of Forensic Sciences

1995 Washington University Dean’s Summer Fellowship Award

1994-98 Mr. and Mrs. Spencer T. Olin Fellowship (Washington University)

1991-94 University of Arizona Graduate Registration Scholarship

1989-91 Maroon Key Society (academic and extracurricular honorary society) & Dean's List (U Chicago)

1987-91 Thomas J. Watson Memorial Scholarship (U Chicago: IBM sponsored)

publications

Ackermann, RR (n.d.) Hybrid wildebeest provide further evidence for shared signatures of admixture in mammalian crania. In prep.

Schroeder, L & RR Ackermann (n.d.) Dental variation in early *Homo*. In prep.

Black, W. & RR Ackermann (n.d.) Non-metric dental variation in Holocene remains from Kenya. Submitted.

Williams, FL, L Schroeder, RR Ackermann (n.d.) The middle face of SK 847 and Stw 53 compared to Plio-Pleistocene Hominini fossils, the African apes and humans. Submitted.

Ackermann, RR and JM Bishop (2009) Morphological and molecular evidence reveals recent hybridization between gorilla taxa. *Evolution*. In press.

Sithaldeen, R, JM Bishop, RR Ackermann (2009) Mitochondrial DNA analysis reveals Plio-Pleistocene diversification within the chacma baboon. *Molecular Phylogenetics & Evolution*. In press.
DOI:10.1016/j.ympev.2009.07.038.

Neeser, R, RR Ackermann, J Gain (2009) Comparing the accuracy and precision of three techniques used for estimating missing landmarks when reconstructing fossil hominin crania. *Am J Phys Anth.* 140(1):1-18. DOI: 10.1002/ajpa.21023

Ackermann, RR (2009) Morphological integration and the interpretation of fossil hominin diversity. *Evolutionary Biology*. 36: 149-156.

Fourie NH, JA Lee-Thorp, RR Ackermann (2008) Biogeochemical and craniometric investigation of dietary ecology, niche separation and taxonomy of Plio-Pleistocene cercopithecoids from the Makapansgat Limeworks. *Am J Phys Anth.* 135(2): 121-135.

Stynder DD, RR Ackermann, JC Sealy (2007) Craniofacial variation and population continuity during the South African Holocene. *Am J Phys Anth.* 134(4): 489-500.

Stynder DD, RR Ackermann, JC Sealy (2007) Early to mid-Holocene South African Later Stone Age human crania exhibit a distinctly Khoesan morphological pattern. *S African J Science*. 103: 349-352.

Ackermann RR & RJ Smith (2007) The macroevolution of our ancient lineage: what we know (or think we know) about early hominin diversity. *Evolutionary Biology*. 34(1):72-85.

Ackermann RR (2007) Craniofacial variation and developmental divergence in primate and human evolution. In: Tinkering: the micro-evolution of development. Novartis Foundation Symposium 284. Wiley, Chichester, pp. 262-279.

Williams FL, RR Ackermann, SR Leigh (2007) Inferring Plio-Pleistocene southern African biochronology from facial affinities in *Parapapio* and other southern African papionins. *Am J Phys Anth.* 132(2):163-174.

Ackermann RR, J Rogers, JM Cheverud (2006) Identifying the morphological signatures of hybridization in primate and human evolution. *J Hum Evol.* 51:632-645.

Ackermann RR (2005) Ontogenetic integration of the hominoid face. *J Hum Evol.* 48:175-197.

Ackermann RR (2005) Variation in Neandertals: A response to Harvati (2003). *J Hum Evol.* 48:643-646.

Ackermann RR and JM Cheverud (2004) Detecting genetic drift versus selection in human evolution. *Proc Nat Acad Sci.* 101:17946-17951.

Ackermann RR and JM Cheverud (2004) Morphological integration in primate evolution. In: Pigliucci, M and Preston, K, eds., Phenotypic Integration: Studying the Ecology and Evolution of Complex Phenotypes. Oxford University Press, pp. 302-319.

Ackermann RR (2003) Using extant morphological variation to understand fossil relationships: a cautionary tale. *S African J Science.* 99:255-258.

Ackermann RR (2002) Patterns of covariation in the hominoid craniofacial skeleton; implications for paleoanthropological models. *J Hum Evol.*, 43:167-187.

Ackermann RR and GE Krovitz (2002) Common patterns of facial ontogeny in the hominid lineage. *The Anatomical Record (New Anat)*, 269:142-147.

Ackermann RR and JM Cheverud.(2002) Discerning evolutionary processes in patterns of tamarin (genus *Saguinus*) craniofacial variation. *Am J Phys Anth.* 117:260-271.

Ackermann RR and JM Cheverud.(2000) Phenotypic covariance structure in tamarins (genus *Saguinus*): A comparison of variation patterns using matrix correlation and common principal component analysis. *Am J Phys Anth.* 111:489-501.

Ackermann RR (1997) Mrs. Ples Now and Then. In: 50 Years of 'Mrs. Ples'. *S African J Science.* 93:167.

Ackermann RR (1997) Three-dimensional imaging in forensic anthropology: A test study using the Macintosh. *J Forensic Sci* 42(1): 93-99.

web-based publications

Ackermann RR (2006) Human evolution: the evidence all around us. *Science in Africa*, September edition. <http://www.sciencein africa.co.za/2006/september/evolution.htm>

Ackermann RR, ed. (2003) A Comparative Primate Dissection Guide, Version 1.0. <http://www.stillevolving.com>

Lee-Thorp JA and Ackermann RR (2002) Lactose Intolerance is Normal! *Science in Africa*, June edition. <http://www.sciencein africa.co.za/2002/june/lactose.htm>

Ackermann RR (2001) The earliest human ancestors: new finds, new interpretations. *Science in Africa*, November edition. <http://www.sciencein africa.co.za/2001/nov/ancestor.htm>

professional associations

Book Review Editor, *Journal of Human Evolution*. August 2008 – present.

Associate Editor, *Journal of Human Evolution*. 2004 – 2007

Advisory Editor, *Blackwell Encyclopedia of Human Evolution*, *Blackwell Dictionary of Human Evolution* and *Blackwell Concise Dictionary of Human Evolution*. 2009.

Commissioning Editor, Special Edition of *South African Journal of Science*, entitled *Current issues in human origins research in South Africa*. May/June 2003.

Founding Trustee, West Coast Fossil Park Trust (Langebaanweg). 2005 – present

Advisory Panel, Science in Africa (www.scienceinafrica.co.za). 2003 – present

Selection Committee, Curator of Cenozoic Collections, Iziko Museums of Cape Town. 2007.

External Examiner, Human Biology Honours Programme, School of Anatomical Sciences, University of the Witwatersrand Medical School. 2006.

International Liaison, Ad Hoc Committee for the Status of Underrepresented Groups in Physical Anthropology, AAPA

Council Member, Archaeological Society of South Africa

American Association of Physical Anthropologists. 1992 – present

American Academy of Forensic Sciences. 1993 – present

Society for the Study of Evolution. 2001 – present

Paleoanthropology Society. 2002 – present

International Primatological Society. 2005 – present

Journal reviewer for: *American Journal of Physical Anthropology*; *American Journal of Primatology*; *Annals of the Transvaal Museum*; *Current Anthropology*; *Evolution*; *Evolutionary Biology*; *International Journal of Primatology*; *Journal of Anatomy*; *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*; *Journal of Human Evolution*; *Journal of Zoology*; *Nature*; *New Anatomist (The Anatomical Record)*; *Paleobiology*; *South African Archaeological Bulletin*; *South African Journal of Science*; *Transactions of the Royal Society of South Africa*, *Zoological Studies*.

Grant reviewer for: L.S.B. Leakey Foundation (USA), National Research Foundation (South Africa), National Science Foundation (USA).

Academic Selection Committees, University of Cape Town: Lecturer, Department of Archaeology, 2005; Lecturer, Department of Archaeology, 2006; Postgraduate Programme Coordinator, Environmental and Geographical Sciences Department, 2007; Lecturer in Human Geography, Environmental and Geographical Sciences Department, 2007/8; Lecturer in Atmospheric Science, Environmental and Geographical Sciences Department, Science Faculty, 2008.

Communication and Marketing Committee, Science Faculty, UCT. 2005 – present

Biological, Earth and Environmental Sciences Programme Committee, UCT. 2003 – present

Faculty Ethics in Research Committee, Science Faculty, UCT. 2008/09.

research & field experience

Musée Royal de l'Afrique Centrale, Belgium; Museum für Naturkunde, Germany; various museums in the U.K. (Powell-Cotton Museum, Royal College of Surgeons, Natural History Museum) and the United States (Cleveland, AMNH, NMNH). 2007. Data collection focusing on non-metric variation in gorillas, for ongoing studies of hybridization.

Washington University School of Medicine, St Louis, MO. 2004, 2006. Studies of extant baboon crania, drawn from the Southwestern Foundation for Biomedical Research, including both 3-D and non-metric data collection.

Cleveland Museum of Natural History, USA & University of the Witwatersrand, Johannesburg. 2004. 3-D data collection from extant ontogenetic series of apes and humans.

University of the Witwatersrand, Johannesburg; Transvaal Museum (NFI), Pretoria. 2004. Studies of fossil *Parapapio* and *Papio* crania, including 3-D data collection.

Moremi Reserve, Okavango Delta, Botswana. 2002. Short-term field observations of living baboons in naturalistic settings.

University of the Witwatersrand, Johannesburg; Transvaal Museum (NFI), Pretoria; National Museums of Kenya, Nairobi; Musée Royal de l'Afrique Centrale, Belgium; various museums in the United States. 1996/7. Studies of fossil and modern hominin and hominoid crania, including 3-D data collection.

Makapan Valley, Northern Province, South Africa. 1995. Field survey and excavation work at Buffalo Cave and surrounding areas under the direction of Dr. Kevin Kuykendall.

Human Identification Laboratory, Arizona State Museum, Tucson, Arizona. 1991-1994. Graduate Research Assistant responsible for assisting Dr. Walter H. Birkby and other team members in post mortem identification of human remains. Responsibilities include field work, laboratory work, and preparation of formal written case evaluations.

Big Bend National Park, Texas. 1991. Fieldwork with Professor Paul Sereno in conjunction with a paleobiology course, resulting in the find and subsequent excavation of an eighty million year old chasmosaurus skull.

University of Chicago Medical Center, Chicago. 1990. Research Assistant whose responsibilities include data collection and analysis of comparative facial anatomy in identical twins as part of a broad project aiming to assess comparative symmetry, in the lab of surgeon and artist Dr. David Teplica. January – September 1990.

Crow Canyon Archaeological Center, Cortez, Colorado. 1990. Field excavation and laboratory artifact analysis of two Anasazi ruins in a small site testing program.

conference presentations & published abstracts

Ackermann RR (2009) Effects of hybridization on the craniofacial skeleton of primates and other mammals: Implications for interpreting extant and extinct diversity. Invited speaker for symposium entitled "Hybridization in Primates - Evidence, Extent, Evolutionary Impact and Problems." Göttingen, Germany, October 7-10.

Ackermann RR (2009) Cranial morphology of hybrid primates and other mammals. Primate Ecology and Genetics Group (PEGG), Pretoria, South Africa, June 26-27.

Ackermann RR (2009) Of baboons, gorillas, squirrels and wildebeest: the morphology of hybrid mammals. *Am J Phys Anth*, Supp 48. AAPA Annual Meeting, Chicago, IL, April 1-4.

- Schroeder L, RR Ackermann & CC Roseman (2009) Evolutionary processes underlying variation in early *Homo*. *Am J Phys Anth*, Supp 48. AAPA Annual Meeting, Chicago, IL, April 1-4.
- Black W, RR Ackermann & JC Sealy (2009) Qualitative and quantitative analyses of the Holocene Khoesan dentition. *Am J Phys Anth*, Supp 48. AAPA Annual Meeting, Chicago, IL, April 1-4.
- Sithaldeen R, JM Bishop & RR Ackermann (2009) Intraspecific phylogeography of the chacma baboon reveals evidence for behavioural adaptation to local habitats. *Am J Phys Anth*, Supp 48. AAPA Annual Meeting, Chicago, IL, April 1-4.
- Black W, RR Ackermann & JC Sealy (2009) Variation in Holocene Khoesan dentition. Paleoanthropology Society Annual Meeting, March 21 & April 1, Chicago. IL.
- Williams FL, L Schroeder & RR Ackermann (2009) A morphometric analysis of the middle face in SK 847 and STW 53 in comparison to the maxillae of *Paranthropus*, *Australopithecus* and early *Homo*. *Am J Phys Anth*, Supp 48. AAPA Annual Meeting, Chicago. IL.
- Ackermann RR (2008) Morphological integration and the interpretation of fossil diversity. *Am J Phys Anth*, Supp 46. AAPA Annual Meeting, Columbus, OH, April 9-12.
- Black W, RR Ackermann and JC Sealy (2008) Metric and non-metric trait variation in the dentition of Holocene Khoesan populations. *Am J Phys Anth*, Supp 46. AAPA Annual Meeting, Columbus, OH, April 9-12.
- Sithaldeen R, RR Ackermann & JM Bishop (2008) Phylogeny and phylogeography of the chacma baboon (*Papio ursinus*): an assessment of evolutionary history and genetic variation. *Am J Phys Anth*, Supp 46. AAPA Annual Meeting, Columbus, OH, April 9-12.
- Sithaldeen R, RR Ackermann & JM Bishop (2008) Phylogeny of the 'chacma' baboon (*Papio ursinus*) reveals ancient lineages with distinct geographic boundaries. South African Society for Systematic Biology Conference, January 15-18. Winner of systematics poster award.
- Ackermann RR (2007) Baboon hybrids and the evolution of development. Primate Ecology and Genetics Group (PEGG), Cape Town, South Africa, June 15-16.
- Ackermann RR (2007) Hybrids, spandrels, and the evolution of development: insights from baboons. *Am J Phys Anth*, Supp 44:60. American Association of Physical Anthropologists (AAPA) Annual Meeting, Philadelphia, PA, March 28-31.
- Fourie NH, JA Lee-Thorp, RR Ackermann (2007) Diet and taxonomy: fossil cercopithecoids from Makapansgat. *Am J Phys Anth*, Supp 44:109. AAPA Annual Meeting, Philadelphia, PA, March 28-31.
- Black W, RR Ackermann, JC Sealy (2007) Dental variation in Holocene Khoesan populations. *Am J Phys Anth*, Supp 44:75. AAPA Annual Meeting, Philadelphia, PA, March 28-31.
- Ackermann RR (2006) Craniofacial variation and developmental divergence in primate and human evolution. Novartis Foundation Symposium 284 "Tinkering: the Microevolution of Development." London, England, July 10-13.
- Ackermann RR (2006) Hybrids in human evolution. Primate Ecology and Genetics Group (PEGG), Polokwane, South Africa, June 22-23.
- Ackermann RR (2006) Morphological variation and evolutionary diversification in primates. African Genesis: A 21st Century Perspective. Invited participant in symposium to commemorate the 80th Anniversary of the

announcement of the Taung hominid and celebrate the 80th birthday of Professor Phillip V. Tobias FRS. Johannesburg, South Africa, January 8-14.

Neeser R, RR Ackermann, and J Gain (2005). On correcting plastic distortion. Fifth International Bone Diagenesis Conference. Cape Town, South Africa, August 29-31.

Fourie, N, JA Lee-Thorp, and RR Ackermann (2005). Subtle dietary differences amongst related sympatric fossil Papionins from Makapansgat Limeworks revealed by tooth enamel $\delta^{13}\text{C}$. Fifth International Bone Diagenesis Conference. Cape Town, South Africa, August 29-31.

Neeser R, RR Ackermann, and J Gain (2005) The use of warping for correcting plastic taphonomic distortions in South African fossil hominid crania. 12th Congress of the Pan African Archaeological Association for Prehistory and Related Studies. Gaborone, Botswana, July 3-10.

Sithaldeen R, PL Babb, RR Ackermann, and TK Newman (2005) Assessing phylogeny, gene flow and population subdivision in chacma baboons (*Papio hamadryas ursinus*) using mitochondrial and nuclear DNA markers. Primate Ecology and Genetics Group (PEGG), Pietermaritzburg, South Africa, June 17-18.

Ackermann RR, J Rogers, and JM Cheverud (2005) What it means morphologically to be a hybrid: evidence from known-pedigree baboons. *Am J Phys Anth*, Supp 40:65. AAPA Annual Meeting, Milwaukee, WI, April 6-9.

Babb PL, R Sithaldeen, RR Ackermann, and TK Newman (2005) Mitochondrial DNA sequence evidence for a deep phylogenetic split in chacma baboons (*Papio hamadryas ursinus*) and the phylogeographic implications for *Papio* systematics. *Am J Phys Anth*, Supp 40:70. AAPA Annual Meeting, Milwaukee, WI, April 6-9.

Sithaldeen R, PL Babb, RR Ackermann, and TK Newman (2005) Assessing gene flow and population subdivision in chacma baboons (*Papio hamadryas ursinus*) using mitochondrial and nuclear DNA markers. *Am J Phys Anth*, Supp 40:196. AAPA Annual Meeting, Milwaukee, WI, April 6-9.

Williams FL, RR Ackermann, and S Leigh (2005) Patterns of craniofacial ontogeny in *Parapapio* and other Plio-Pleistocene southern African cercopithecines. *Am J Phys Anth*, Supp 40:228. AAPA Annual Meeting, Milwaukee, WI, April 6-9.

Sithaldeen R and RR Ackermann (2004) A comparison of craniofacial sexual dimorphism in *Papio ursinus* and *P. cynocephalus*. *Am J Phys Anth*. Supp 38. AAPA Annual Meeting, Tampa, FL, April 14-17.

Ackermann RR (2003) Morphological integration in hominoids: a tool for understanding human evolution. *Am J Phys Anth*, Supp 36:55. AAPA Annual Meeting, Tempe, AZ, April 23-26.

Krovitz GE and Ackermann (2003) Modeling juvenile robust australopithecine faces. *Am J Phys Anth*, Supp 36:133. AAPA Annual Meeting, Tempe, AZ April 23-26.

Ackermann RR (2002) What can morphological variation tell us about phylogenetic divergence? *Am J Phys Anth*. Supp 32, p. 35. AAPA Annual Meeting, Buffalo, NY, April 10-13.

Ackermann RR and GE Krovitz (2000) Morphometric analysis of craniofacial shape and growth patterns in *Australopithecus africanus*. *Am J Phys Anth*. Supp 30, p. 91. AAPA Annual Meeting, San Antonio, TX, April 10-15.

Ackermann RR (1998) On variability and the choice of model populations in the taxonomic assessment of early fossil hominids. *Am J Phys Anth*. Supp. 26, p. 61. AAPA Annual Meeting, Salt Lake City, UT, March 31-April 4.

Ackermann RR (1995) Three-Dimensional Imaging in Forensic Anthropology: A Test Study Using the Macintosh. American Academy of Forensic Sciences Annual Meeting, Seattle, Washington, Feb 13-18. Winner of the J. Lawrence Angel Award.

conference & symposium organisation

2008. Association of Southern African Professional Archaeologists (ASAPA) Biennial Conference. Cape Town, South Africa, 25-28 March. Organising Committee Member.

2007. Primate Ecology and Genetics Group (PEGG) Annual Meeting, Cape Town, South Africa, 16-17 June. Organiser and Co-chair (with PhD student Riashna Sithaldeen).

2005. Fifth International Bone Diagenesis Conference. Cape Town, South Africa, 29-31 August. Organising Committee Member.

2002. "Australopithecus to AMHS: Current paleoanthropological research in South Africa." Symposium held at the American Association of Physical Anthropologists meeting in Buffalo, NY, 10-13 April. Organizer and Co-chair.

other significant presentations

Primate hybrids and human evolution. Invited lecture, Max Plank Institute for Evolutionary Anthropology. Leipzig, Germany. May 2007.

Linking pattern and process in primate and human evolution. Invited lecture, Department of Anthropology, Dartmouth College, USA. January 2007.

Developmental divergence in primate and human evolution. Invited lecture for Cross-University Brain and Behaviour Initiative (CUBBI), Cape Town, South Africa. August 2006.

Variation, integration, and diversity in primate evolution. Invited lecture for Evolutionary Morphology seminar series. University of Chicago, USA. June 2006.

Primate models for human evolution. Invited lecture, MRC Centre for Molecular and Cellular Biology, University of Stellenbosch, South Africa. October 2005.

Hobbits, hybrids and human evolution. Darwin Seminar Series, invited lecture. Africa Human Genome Initiative. Cape Town, South Africa. September 2005.

Still evolving: exploring the living evidence of human evolution. Invited lecture given both at the South African Museum (sponsor: Friends of the South African Museum) and at the Langebaanweg Fossil Park. June 2005.

Human evolution: past, present, and future. Keynote lecture for the 2005 SASOL Science Festival, Grahamstown, South Africa. March 2005.

Recent hominid discoveries and their implications for early human ancestry. Earth Science Club of Northern Illinois (ESCONI), at the College of DuPage, Illinois, USA. Invited lecture for seminar series. April 2004.

Invited plenary discussant, Africa Human Genome Initiative. Stellenbosch, South Africa. Plenary Speaker: Prof Chris Stringer. Chair: Prof Philip Tobias. March 2003.

Genes, bones, and models of modern human origins. Invited speaker, Africa Human Genome Initiative Workshop: The Origins of Humanity and the Diffusion of Human Populations in Africa. Stellenbosch, South Africa. September 2002.

Recent hominid discoveries and their implications for early human ancestry. Archaeological Society Lecture, South African Museum, Cape Town. October 2001.

The paleoanthropological predicament: establishing genetic relationships without genes. Dept of Genetics, University of Cape Town. Invited lecture for seminar series. September 2001.

The paleoanthropological predicament: in search of the “missing link” between molecules and morphology. Dept of Microbiology, University of Cape Town. Invited lecture for seminar series, August 2001.

Human evolution in the 21st century. Dept of Zoology, University of Cape Town. Invited lecture for seminar series, May 2001.

The australopithecines; interpreting the fossil remains of our earliest ancestors. Earth Science Club of Northern Illinois (ESCONI), at the College of DuPage, Illinois, USA. Invited lecture for seminar series, September 1999.

Variation: the “missing link” between fossils and evolution. Archaeology Dept, University of Cape Town. Invited lecture for seminar series, August 1999

current teaching

BIO1004S: Biological Diversity. Lectures and practicals on the topic of Human Evolution. 2006-present.

AGE2011S: Human Evolution. Course Coordinator. Sole lecturer in course. 2000-present.

BIO3000S: Systematics and Evolution. Lectures and practicals focusing on “Evolution and the study of form.” 2005, 2006, 2008.

BIO3001F: Vertebrate Biology. Lectures and practicals on the topic of Primate Diversity & Evolution. 2008/9.

AGE3006H: Directed Reading and Research. 2 students in 2009, 1 student in 2006, 2 students in 2003, 3 students in 2002. Topics vary widely, and have included primate models for human evolution, Neanderthals and the emergence of modernity, and skeletal variation in early *Homo*.

AGE4000W: BSc (HONS) in Archaeology. Course Coordinator in 2002, 2003, 2008 & 2009. Lecturing & laboratory instruction, 2000-present. Modules lectured: Introduction to Archaeological Statistics, Human Osteology, Mapping the Past.

ERT4000W: BSc (HONS) in Archaeology and Environmental Science. Course Coordinator. 2002-2003.

graduated students

Masters and PhD students:

Nicolaas Fourie, MSc (with distinction). 2006. Dietary ecology and niche separation in three genera (*Parapapio*, *Theropithecus* and *Cercopithecoides*) of South African Plio-Pleistocene Cercopithecoidea.

Recipient of PAST grants in 2005 & 2006 (R64,000). Co-supervisors: RR Ackermann & J Lee-Thorp.

Rudy Neeser, MSc (with distinction). 2007. A comparison of statistical and geometric reconstruction techniques: guidelines for correcting fossil hominin crania. Recipient of PAST grant in 2005 (R12,000). Primary supervisor: J Gain (Computer Science). Co-supervisor: RR Ackermann.

Eileen Off, PhD. 2009. Quantification of craniofacial variation, integration, and evolutionary diversification in baboons. Recipient of PAST grants in 2004 & 2005. Supervisor: RR Ackermann.

Joshua M. Polanski, PhD (University of Iowa). 2009. Morphological integration of the cranium during ontogeny of *Homo sapiens* and *Pan troglodytes*. Primary supervisor: RG Franciscus. Committee: RR Ackermann, J Canady, R Ciochan, N Ting.

Deano Stynder, PhD. 2006. A quantitative assessment of variation in Holocene Khoesan crania from South Africa's western, south-western, southern and south-eastern coasts and coastal forelands. Recipient of Wenner-Gren Individual Research Grant in 2003 (\$25,000) and PAST grant (R80,000). Primary supervisor: RR Ackermann. Co-supervisor: JC Sealy.

Honours students:

Erica Forbes, BA (Hons). 2003. Sexual dimorphism in the tibiae of Khoesan populations. Primary supervisor: RR Ackermann. Co-supervisor: JC Sealy.

Nicolaas Fourie, BSc (Hons, with distinction). 2003. Primate models of human evolution: an isotope study of chacma baboons (*Papio ursinus*). Co-supervisors: RR Ackermann & J Lee-Thorp.

Jenna Lavin, BSc (Hons). 2007. The lost tribes of the peninsula: history and demography of chacma baboons on the Cape Peninsula. Supervisor: RR Ackermann.

Jordan Saltzman, BA (Hons). 2006. Shape variation in early Holocene Khoesan crania. Supervisor: RR Ackermann.

Lauren Schroeder, BSc (Hons, with distinction). 2007. Using Mahalanobis' generalized distances to investigate morphological relationships and variation in early *Homo* dental specimens. Supervisor: RR Ackermann.

Riashna Sithaldeen, BSc (Hons). 2002. Sexual dimorphism in chacma baboons (*P. ursinus*) from the Western Cape Province, South Africa. Supervisor: RR Ackermann.

current students

Wendy Black (PhD). Dental variation in Holocene Khoesan material from South Africa. Recipient of free-standing NRF Fellowship, 2005-2007. Recipient of PAST grants in 2007, 2008 & 2009 (R118,840). Primary supervisor: RR Ackermann. Co-supervisor: JC Sealy.

Kyla Bluff (Hons). The morphological expression of hybridization in a chacma baboon hybrid zone. Recipient of PAST grant in 2009 (R28,000). Supervisor: RR Ackermann.

Tessa Campbell (PhD). Evaluating the evolution of TB in South Africa through ancient DNA. Recipient of the 2007, 2008, and 2009 Wadsworth African Fellowship (\$15,000, \$17,500, & \$18,500) from the Wenner-Gren Foundation. Primary supervisor: RR Ackermann. Co-supervisor: A Stone (Arizona State University).

Lisa Nevell (PhD; George Washington University). Comparative, fossil and developmental analysis of cranial base variation. Primary supervisor: B Wood.

Trish Parsons (PhD; University of Calgary). A developmental analysis of the variation of shape of the chondrocranium and its effects on the evolution of the mammalian skull. Primary supervisor: B Hallgrímsson.

Lauren Schroeder (MSc). The evolution and diversification of early *Homo*. Recipient of the 2008/09 Baldwin Fellowship (\$12,000) from the Leakey Foundation. Recipient of PAST grants in 2008 & 2009 (R66,500). Supervisor: RR Ackermann.

Riashna Sithaldeen (PhD). Phylogeny and phylogeography of the chacma baboon (*Papio ursinus*): a genetic study. Recipient of PAST grants from 2004—2006 (R163,000), and a grant sponsored by the *Deutsches Primaten Zentrum* to participate in a 2005 symposium entitled “Primate diversity: past, present and future.” Primary supervisor: RR Ackermann. Co-supervisor: J Bishop (Zoology).

marketing and outreach activities

World Wide Web Design, Development, Implementation, and Upkeep.

- ❖ The Department of Archaeology, University of Cape Town (www.uct.ac.za/depts/age)
- ❖ The Quaternary Research Centre of the Western Cape (www.uct.ac.za/depts/quarc)
- ❖ The Joshua Baboon Rehabilitation Project (www.baboons.co.za)
- ❖ Second year course in Human Evolution (www.uct.ac.za/depts/age/age211s)
- ❖ Honours module Mapping the Past (www.uct.ac.za/depts/age/mapping)

Page Layout and Design. For the Department of Archaeology, as well as courses and lectures affiliated with the department. Includes departmental marketing pamphlets, course pamphlets, departmental posters, flyers, and lecture advertisements.

Offsite Lecturing. Lecture and run a practical for a Faculty of Science sponsored afternoon course entitled “Still evolving: the living evidence of human evolution” in conjunction with LEAP and COSAT in Khayalitsha in 2003 – 2006. Have also regularly lectured to the general public, including the Archaeological Society & Friends of the South African Museum.

Science Festival Participation. Organizational participation and display design (Neanderthal photo-superimposition) for the winning Science exhibit at the 2002 SASOL Science Festival in Grahamstown. Keynote lecturer for festival in 2005.

Educational Materials Development. Ongoing contribution to materials development for the West Coast Fossil Park, Langebaanweg.

On-line Publishing. Write popular articles for Science in Africa. Go to: www.scienceinafrica.co.za

Television and Radio Interviews. Have given a number of interviews on my own research, as well as more broad human evolution topics, including:

- ❖ SAFM’s “Otherwise” radio programme on women in South Africa and the world, interviewed by Talia Sanhewe. February 2005.
- ❖ Cape Talk / Radio 702. Live half hour radio interview focusing on published PNAS drift versus selection manuscript. December 2004.
- ❖ Radio 702. Live half hour radio interview focusing on the Flores hominins and other topics of interest. Interviewed by Boo Prince. October 2004.

- ❖ SAFM's "Head Talk." Radio interview at the studio in Cape Town, focusing on skulls and what you can tell from them. Interviewed by Jonathan Richards. July 2001.
 - ❖ BBC's "Tomorrow's World." Television interview conducted at the Kenya National Museum, focusing on the use of advanced digital technology in my doctoral research. First aired February 1997.
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