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EDUCATION

Ph.D. in Physical Anthropology. Institute of Vertebrate Paleontology and
Paleoanthropology, Chinese Academy of Sciences, Beijing, China.
1995 -1998. Supervisor: Dr Rukang Wu (formerly known as J. K. Woo)
M. Sc. in Paleontology. Nanjing University, Nanjing, China. 1992 -1995.
B.Sc. in Paleontology. Nanjing University, Nanjing, China. 1988 - 1992.

POSTDOCTORAL EXPERIENCE

Research Associate and Instructor of Anatomy, Department of Biomedical Sciences,
Baylor College of Dentistry, Texas A & M University System Health Science
Center. 2003 - 2006. Mentor: Dr Paul C. Dechow.
Postdoctoral Fellow, School of Anatomical Sciences, University of the Witwatersrand
Medical School, Johannesburg, South Africa. 1999 - 2002.
Mentor: Professor Phillip V. Tobias.

APPOINTMENTS

Assistant Professor of Anatomy, Division of Basic Medical Sciences, Mercer University
School of Medicine. Macon, GA. Since 2007.
Assistant to Curator (part time), Fossil Dome, School of Anatomical Sciences, University
of the Witwatersrand, Johannesburg, South Africa. 2002.
Assistant Research Fellow, Institute of Vertebrate Paleontology and Paleoanthropology,
Chinese Academy of Sciences, Beijing, China. 1998 -1999.
Assistant editor, *Acta Anthropologica Sinica*. 1997- 2000.

RESEARCH GRANTS

NSF Collaborative Research: Integrative analysis of hominid feeding biomechanics –
Morphology and biomechanics of craniofacial sutures (PI). 2007-2012.

RECENT PUBLICATIONS

1. Wang Q, Smith AL, Strait DS, Wright BW, Richmond BG, Grosse IR, Byron CD, Zapata U. 2010. The global impact of sutures assessed in a finite element model of a macaque cranium. *Anatomical Record* (in press).
2. Dechow PC, Wang Q, Peterson J. 2010. Edentulation alters material properties of cortical bone in the human craniofacial skeleton: functional implications for craniofacial structure in primate evolution. *Anatomical Record* 293:618-629.
3. Wang Q, Wright BW, Smith A, Chalk J, Byron CD. 2010. Mechanical impact of incisor loading on the primate midfacial skeleton and its relevance to human evolution. *Anatomical Record*. 293:607-617.
4. Strait DS, Grosse IR, Dechow PC, Smith AL, Wang Q, Weber GW, Neubauer S, Slice DE, Chalk J, Richmond BG, Lucas PW, Spencer MA, Schrein C, Wright BW, Byron C, Ross CF. 2010. The Structural Rigidity of the Cranium of *Australopithecus africanus*: Implications for Diet, Dietary Adaptations, and the Allometry of Feeding Biomechanics. *Anatomical Record*. 293: 583-593.

5. Zapata U, Metzger K, Wang Q, Elsey RM, Ross CF, Dechow PC. Mechanical properties of mandibular cortical bone in the American alligator, *Alligator mississippiensis*. *Bone* 46:860-867.
6. Wang Q, Ashley DW, Dechow PC. 2010. Regional, ontogenetic, and sex-related variations in elastic properties of cortical bone in baboon mandibles. *American Journal of Physical Anthropology*, 141:526-549.
7. Strait DS, Weber GW, Neubauer S, Chalk J, Richmond BG, Lucas PW, Spencer MA, Schrein C, Dechow PC, Ross CF, Grosse IR, Wright BW, Constantino P, Wood BA, Lawn B, Hylander WL, Wang Q, Byron CD, Slice DE, Smith AL. 2009. The Feeding biomechanics and dietary ecology of *Australopithecus africanus*. *Proc Natl Acad Sci USA*. 106:2124-2129.
8. Wang Q, Dechow PC, Wright BW, Ross CF, Strait DS, Richmond BG, Spencer MA, Byron CD. 2008. Surface strain on bone and sutures in a monkey facial skeleton: an in vitro approach and its relevance to Finite Element Analysis. In: Vinyard CJ, Ravosa MJ, Wall CE, editors. *Primate Craniofacial Function and Biology, Development in Primatology Series*. New York: Springer, pp.149-172.
9. Strait DS, Wright BW, Richmond BG, Ross CF, Dechow PC, Spencer MA, Wang Q. 2008. Craniofacial strain patterns during premolar loading: Implications for human evolution. In: Vinyard CJ, Ravosa MJ, Wall CE, editors. *Primate Craniofacial Function and Biology, Development in Primatology Series*. New York: Springer, p173-198.
10. Wang Q, Tobias PV, Roberts DL, Jacobs Z. 2008. A re-examination of a human femur found at the Blind River Site, East London, South Africa: Its age, morphology, and breakage pattern. *Anthropological Review*. 71:43-61.
11. Elsalanty ME, Por YC, Genecov DG, Salyer KE, Wang Q, Barcelo CR, Troxler K, Gendler E, Opperman LA. 2008. Recombinant human BMP2 enhances the effects of materials used for reconstruction of large cranial defects. *Journal of Oral and Maxillofacial Surgery*. 66:277-285.
12. Wang Q, Dechow PC, Hens SM. 2007. Ontogeny and diachronic changes in sexual dimorphism in the craniofacial skeleton of rhesus macaques from Cayo Santiago, Puerto Rico. *Journal of Human Evolution*. 53:350-361.
13. Wang Q, Opperman LA, Havill LM, Carlson DS, Dechow PC. 2006. Inheritance of sutural pattern at the pterion in rhesus monkey skulls. *Anatomical Record*. 288A:1042-1049.
14. Wang Q, Strait DS, Dechow PC. 2006. Fusion patterns of craniofacial sutures in rhesus monkey skulls of known age and sex from Cayo Santiago. *American Journal of Physical Anthropology*. 131:469-485.
15. Peterson J, Wang Q, Dechow PC. 2006. Material properties of the dentate maxilla. *Anatomical Record*. 288A:962-972.
16. Wang Q, Strait DS, Dechow PC. 2006. A comparison of cortical elastic properties in the craniofacial skeletons of three primate species and its relevance to the study of human evolution. *Journal of Human Evolution*. 51:375-382.
17. Wang Q, Dechow PC. 2006. Elastic properties of external cortical bone in the craniofacial skeleton of the rhesus monkey. *American Journal of Physical Anthropology*. 131:402-415.
18. Strait DS, Wang Q, Dechow PC, Ross CF, Richmond BG, Spencer MA, Patel BA. 2005. Modeling elastic properties in finite element analysis: How much precision is needed to produce an accurate model? *Anatomical Record* 283A:275-287.