

August 2009

Curriculum vitae
ROBERT G. FRANCISCUS

Department of Anthropology
University of Iowa
114 Macbride Hall
Iowa City, Iowa USA 52242-1322

Tel: (319) 335-1421
Fax: (319) 335-0653
E-mail: robert-franciscus@uiowa.edu
<http://www.uiowa.edu/~anthro/franciscus.shtml>

RESEARCH INTERESTS

- Paleoanthropology: fossil *Homo*, Neandertals, and early modern humans
- Nasal variation and climatic adaptation in fossil hominins and extant humans
- Biomechanical, climatic, and non-adaptive models for Neandertal facial anatomy
- Neandertal rib morphology and thoracic form: respiration, activity, and upper body shape
- Skeletal biology, human osteology, and morphometrics

EDUCATIONAL AND PROFESSIONAL HISTORY

Higher Education

1988-1995 Ph.D., Anthropology, University of New Mexico, 1995
Dissertation: *Later Pleistocene Nasofacial Variation in Western Eurasia and Africa and Modern Human Origins* (Chair: E. Trinkaus)
1985-1987 M.A., Anthropology, University of New Mexico, 1987
1980-1985 B.A., Anthropology, Texas A&M University, 1985

Professional and Academic Positions (Primary)

2004-present Associate Professor: Department of Anthropology, University of Iowa
1998-2003 Assistant Professor: Department of Anthropology, University of Iowa
1997 Assistant Professor: Department of Anthropology, Stanford University
1995-1996 Lecturer: Department of Anthropology, Stanford University

Professional and Academic Positions (Secondary)

2006-2008 Director of Graduate Studies, Department of Anthropology, University of Iowa
2002-present Associate Professor: Interdisciplinary Neuroscience Ph.D. Program, University of Iowa
1997 Resident Fellow: Residential Education Program (Human Biology), Stanford University
1987-1994 Teaching Assistant: Department of Anthropology, University of New Mexico

Editorial Position

2006-2008 Editorial Board (Associate Editor): *Journal of Human Evolution* (Elsevier, Oxford)

Professional Memberships

- 2009-present Center for Academic Research & Training in Anthropogeny
- 2007-present Leakey Foundation Alumni Society
- 1999-present American Association for the Advancement of Science
- 1997-present Paleoanthropology Society
- 1986-present American Association of Physical Anthropologists

Honors and Awards

- 2005 Career Development Award, University of Iowa
- 2002 Second Old Gold Fellowship, University of Iowa
- 2002 Special Development (Flexible Load) Award, University of Iowa
- 2001 International Programs Research Fellowship, University of Iowa
- 2000 Old Gold Fellowship, University of Iowa
- 1995 Ph.D. awarded with distinction, University of New Mexico
- 1995 Ruth E. Kennedy Memorial Award for outstanding doctoral candidate, Maxwell Museum of Anthropology, University of New Mexico
- 1987 M.A. awarded with distinction, University of New Mexico
- 1987 Outstanding Teaching Assistant Award, University of New Mexico Foundation Inc., University of New Mexico
- 1987 Outstanding Instructor Ranking among instructors campus-wide rated as excellent by the University of New Mexico instructor and course evaluation system (ICES)

SCHOLARSHIP

Publications (Refereed Journal Articles)

- n.d. Holton, NE, **Franciscus, RG**, Nieves, MA, Marshall, SD, Reimer, SB, Southard, TE, Keller, JC, Maddux, SD. Experimental facial growth alteration in *Sus scrofa* and its implications for the evolution of modern human craniofacial anatomy. *Journal of Anatomy* (submitted: 7/20/09).
- n.d. Klein, RG, **Franciscus, RG**, Steele, TE. Morphometric identification of bovid metapodials to genus and implications for taxon-free habitat reconstruction. *Journal of Archaeological Science* (submitted: 4/20/2009).
- n.d. Zaim, Y, Ciochon, RL, Polanski, JM, Grine, FE, Bettis III, A, Rizal, Y, **Franciscus, RG**, Larick, RR, Heizler, M, Eaves-Johnson, KL, Marsh, HE. New *Homo erectus* maxilla from the base of the Bapang Formation (Central Java, Indonesia): Hominins arrive prior to 1.5 Ma in the Sangiran Dome. *Journal of Human Evolution* (submitted 12/31/08: in revision).
- in press Marshall, SD, Low, LE, Holton, NE, **Franciscus, RG**, Frazier, M, Qian, F, Mann, K, Scott, JE, Southard, TE. Chin development as a result of differential jaw growth. *American Journal of Orthodontics & Dentofacial Orthopedics*.

- in press Gabriel, DB, Southard, KA, Qian, F, Marshall, SD, **Franciscus, RG**, Southard, TE. Cervical vertebrae maturation method: a reproducibility assessment. *American Journal of Orthodontics & Dentofacial Orthopedics*.
- 2009 Holliday, TW, **Franciscus, RG**. Body size and its consequences: allometry and the lower limb length of Liang Bua 1 (*Homo floresiensis*). *Journal of Human Evolution*. doi:10.1016/j.jhevol.2009.04.007.
- 2009 Churchill, SE, **Franciscus, RG**, McKean-Peraza, HA, Daniel, JA, Warren, BR. The Shanidar 3 Neandertal Rib Puncture Wound and Paleolithic Weaponry. *Journal of Human Evolution*. 57:163-178.
- 2009 Gómez-Olivencia, A, Lindsay Eaves-Johnson, K, **Franciscus, RG**, Carretero, JM, Arsuaga, JL. Kébara 2: new insights regarding the most complete Neandertal thorax. *Journal of Human Evolution*. 57:75-90.
- 2009 **Franciscus, RG**. When did the modern human pattern of childbirth arise? New insights from an old Neandertal pelvis. *Proceedings of the National Academy of Sciences USA*. 106:9125-9126.
- 2009 Maddux, SD, **Franciscus, RG**. Allometric scaling of infraorbital surface topography in *Homo*. *Journal of Human Evolution*. 56:161-174.
- 2008 Holton, NE, **Franciscus, RG**. The paradox of a wide nasal aperture in cold-adapted Neandertals: a causal assessment. *Journal of Human Evolution*. 55:942-951.
- 2008 Marshall, SD, Caspersen, M, Hardinger, **Franciscus, RG**, Aquilino, SA, Southard, TE. Development of the curve of spee. *American Journal of Orthodontics & Dentofacial Orthopedics*. 134:344-352.
- 2007 Edwards, CB, Marshall, SD, Qian, F, Southard, KA, **Franciscus, RG**, Southard, TE. Longitudinal study of facial skeletal growth completion in three dimensions. *American Journal of Orthodontics & Dentofacial Orthopedics*. 132:762-768.
- 2007 Rougier, H, Milota, S, Rodrigo, R, Gherase, M, Sarcină, L, Moldovan, O, Zilhão, J, Constantin, S, **Franciscus, RG**, Zollikofer, CPE, Ponce-de-León, M, Trinkaus, E. Peștera cu Oase 2 and the cranial morphology of early modern Europeans. *Proceedings of the National Academy of Sciences* 104:1165-1170.
- 2006 Hesby, RM, Marshall, S, Dawson, D, Southard, KA, Casko, JS, **Franciscus, RG**, Southard, TE. Transverse skeletal and dentoalveolar changes during growth. *American Journal of Orthodontics and Dentofacial Orthopedics*. 130:721-31. [Editor's choice article]
- 2006 Polanski, JM, **Franciscus, RG**. Patterns of Craniofacial Integration in extant *Homo*, *Pan*, and *Gorilla*. *American Journal of Physical Anthropology*. 131:38-49.

- 2006 Southard, TE, **Franciscus, RG**, Fridrich, KL, Nieves, MA, Keller, JC, Holton, NE, Krizan, KE, Reimer, SB, Marshall, SD. Restricting facial bone growth with skeletal fixation: A preliminary study. *American Journal of Orthodontics & Dentofacial Orthopedics*. 130:218-223.
- 2005 O'Connor, CF, **Franciscus, RG**, Holton, NE. Bite force production capability and efficiency in Neandertals and modern humans. *American Journal of Physical Anthropology*. 127:129-151.
- 2003 **Franciscus, RG**. Internal nasal floor configuration in *Homo* with special reference to the evolution of Neandertal facial form. *Journal of Human Evolution*. 44:701-729.
- 2002 **Franciscus, RG**, Churchill, SE. The costal skeleton of Shanidar 3 and a reappraisal of Neandertal thoracic morphology. *Journal of Human Evolution* 42:303-356.
- 1999 **Franciscus, RG**. Neandertal nasal structures and upper respiratory tract "specialization". *Proceedings of the National Academy of Sciences* 96:1805-1809.
- 1996 Trinkaus, E, Arter, DD, **Franciscus, RG**. A reconstruction of the Shanidar 4 facial skeleton. *Paléorient* 22:51-66.
- 1996 Grün, R, Brink, JS, Spooner, NA, Taylor, L, Stringer, CB, **Franciscus, RG**, Murray, AS. Direct dating of Florisbad hominid. *Nature* 382:500-501.
- 1995 **Franciscus, RG**, Trinkaus, E. Determinants of retromolar space presence in Pleistocene *Homo* mandibles. *Journal of Human Evolution* 28:577-595.
- 1992 **Franciscus, RG**, Holliday, TW. Hindlimb skeletal allometry in Plio-Pleistocene hominids with special reference to AL 288-1 ("Lucy"). *Bulletins et Mémoires de la Société d'Anthropologie de Paris* 4:5-20.
- 1991 **Franciscus, RG**, Long, JC. Variation in human nasal height and breadth. *American Journal of Physical Anthropology* 85:419-427.
- 1988 **Franciscus, RG**, Trinkaus, E. Nasal morphology and the emergence of *Homo erectus*. *American Journal of Physical Anthropology*. 75:517-527.

Publications (Book Chapters and Solicited Articles)

- n.d. **Franciscus, RG**, Holton, NE. The Oase 2 Mid-Facial Morphology. In: *Life and Death at the Peștera cu Oase: A Setting for Modern Human Emergence in Europe*, E. Trinkaus, S. Constantin & J. Zilhão (eds.), Oxford University Press (in prep).
- 2006 Trinkaus, E, Zilhão, J, Rougier, H, Rodrigo, R, Milota, Ş, Gherase, M, Sarcina, Moldovan, O, L, Bălţean, I, Codrea, V, Bailey, SE, **Franciscus, RG**, Ponce de León, M, Zollikofer,

- CPE. The Peștera cu Oase and early modern humans in southeastern Europe. In *When Neanderthals and Modern Humans Met*, N.J. Conard (ed.) Tubingen: Kerns Verlag, pp. 145-164.
- 2006 Holliday, TW, Hillson, SW, **Franciscus RG**, Trinkaus, E. The Human Remains: A Summary Inventory. In: *Early Modern Human Evolution in Central Europe: The People of Dolni Vestonice and Pavlov*, E. Trinkaus & J. Svoboda (eds.), London & New York: Oxford University Press, pp. 27-30.
- 2006 Hillson, SW, **Franciscus, RG**, Holliday, TW, Trinkaus, E. The Ages-at-Death. In: *Early Modern Human Evolution in Central Europe: The People of Dolni Vestonice and Pavlov*, E. Trinkaus & J. Svoboda (eds.), London & New York: Oxford University Press, pp. 31-45.
- 2006 Brůžek, J, **Franciscus, RG**, Novotný, V, Trinkaus, E. The Assessment of Sex. In: *Early Modern Human Evolution in Central Europe: The People of Dolni Vestonice and Pavlov*, E. Trinkaus & J. Svoboda (eds.), London & New York: Oxford University Press, pp. 46-62.
- 2006 **Franciscus, RG**, Vlček, E. The Cranial Remains. In: *Early Modern Human Evolution in Central Europe: The People of Dolni Vestonice and Pavlov*, E. Trinkaus & J. Svoboda (eds.), London & New York: Oxford University Press, pp. 63-152.
- 2006 **Franciscus, RG**, Vlček, E, Trinkaus, E. The Mandibular Remains. In: *Early Modern Human Evolution in Central Europe: The People of Dolni Vestonice and Pavlov*, E. Trinkaus & J. Svoboda (eds.), London & New York: Oxford University Press, pp. 156-178.
- 2006 Trinkaus, E, Hillson, SW, **Franciscus, RG**, Holliday, TW. Skeletal and Dental Paleopathology. In: *Early Modern Human Evolution in Central Europe: The People of Dolni Vestonice and Pavlov*, E. Trinkaus & J. Svoboda (eds.), London & New York: Oxford University Press, pp. 419-458.
- 2002 **Franciscus, RG**. The Midfacial Morphology. In: *Portrait of the Artist as a Child. The Gravettian Human Skeleton from the Abrigo do Lagar Velho and its Archeological Context*. J. Zilhão & E. Trinkaus (eds.) Trabalhos de Arqueologia 22, Lisboa: Instituto Português de Arqueologia, pp. 297-311.
- 2002 **Franciscus, RG**. Hominid Evolution: Neanderthals. In: *Encyclopedia of Evolution, Vol. 1*, M. Pagel (ed.), Oxford University Press, pp. 493-497.

Publications (Book Reviews)

- in press **Franciscus, RG**. New Insights on the Krapina Neandertals: 100 years since Gorjanović-Kramberger (Eds: J. Monge, A. Mann, D. Frayer and J. Radovčić). *American Journal of Physical Anthropology*.

- 2001 **Franciscus, RG.** The Last Neanderthal: The Rise, Success, and Mysterious Extinction of our closest Human Relatives (by Ian Tattersall). *Plains Archaeologist*. 46:327-329.

Publications (Thesis)

- 1995 **Franciscus, RG.** *Later Pleistocene Nasofacial Variation in Western Eurasia and Africa and Modern Human Origins*. Ph.D. Thesis, University of New Mexico. University Microfilms, Ann Arbor: No. AAT 9814571.

Publications (Refereed Published Abstracts)

- 2009 Maddux, SD, **Franciscus, RG.** Allometric scaling of infraorbital surface topography in *Homo*: Size Does Matter. *PaleoAnthropology* A24.
<http://www.paleoanthro.org/journal/content/PAS2009A.pdf>
- 2009 Yokley, TR, Holton, NE, **Franciscus, RG,** Churchill, SE. The role of body mass in the evolution of the modern human nasofacial skeleton. *PaleoAnthropology* A39-40.
<http://www.paleoanthro.org/journal/content/PAS2009A.pdf>
- 2009 Scott, JE, Holton, NE, **Franciscus, RG,** Marshall, SD, Southard, TE. Differential growth of the maxilla and mandible as an explanation for variation in mentum osseum size. *American Journal of Physical Anthropology*. Suppl. 48:361.
- 2009 Nicholas, CL, **Franciscus, RG.** Internal nasal floor configuration in contemporary fetal and postnatal subadult *H. sapiens*. *American Journal of Physical Anthropology*. Suppl. 48:306.
- 2009 Holton, NE, **Franciscus, RG,** Southard, TE, Marshall, SD, Nieves, MA, Reimer, SB. The effects of experimentally reduced facial dimensions on the growth of the nasal septum and premaxilla in *Sus scrofa*. *American Journal of Physical Anthropology*. Suppl. 48:229.
- 2008 Swenson, KE, Holton, NE, **Franciscus, RG,** Nieves, MA, Marshall, SD, Qian, F, Southard, TE. Facial suture plating alters sutural interdigitation in *Sus scrofa*. *American Association for Dental Research*.
http://iadr.confex.com/iadr/2008Dallas/techprogram/abstract_100503.htm
- 2008 **Franciscus, RG,** Holton, NE, Nieves, MA, Southard, TE, Reimer, SB, Marshal, SD, Krizan, KE, Maddux, SD. Experimental facial growth alteration in *Sus scrofa* and its implications for the evolution of modern human craniofacial anatomy. *American Journal of Physical Anthropology* Suppl. 46:98-99.
- 2007 **Franciscus, RG,** Holton, NE, Maddux, SD, Marsh, HE, Ciochon, RL. Temporal and geographical patterning of mandibular corpus dimensions in *Homo* using Mantel tests. *American Journal of Physical Anthropology*. Suppl. 44:110.

- 2007 Michael, AR, **Franciscus, RG**. Differential diagnosis of facial pathology in Dolní Věstonice 3: biobehavior in the Gravettian of Central Europe. *American Journal of Physical Anthropology*. Suppl. 44:172.
- 2007 Eaves-Johnson, KL, **Franciscus, RG**, A'Hearn, B. Biogeographic and sex variation in external rib cross-sectional area and geometry. *American Journal of Physical Anthropology*. Suppl. 44:104.
- 2006 Maddux, SD, **Franciscus, RG**. Qualitative and quantitative assessment of infraorbital surface topography in recent and fossil *Homo*. *American Journal of Physical Anthropology*. Suppl. 42:123.
- 2005 Yokley, TR, **Franciscus, RG**. Variation in nasal passage surface-area-to-volume ratios of recent and fossil humans. *PaleoAnthropology A12*.
<http://www.paleoanthro.org/journal/content/PAS2005A.pdf>
- 2005 Ciochon, R, Zaim, Y, Grine, F, Rizal, Y, Larick, R, Bettis, A. III, **Franciscus, RG**, Polanski, J. A new *Homo erectus* maxilla from the Bapang basal unit, Sangiran Dome, Java. *American Journal of Physical Anthropology*. Suppl. 40:86-87.
- 2005 Canady, JW, **Franciscus, RG**. Multidisciplinary approach improves diagnosis in world's oldest cleft "patient". *American Cleft Palate-Craniofacial Association*.
- 2005 Eaves-Johnson, KL, **Franciscus, RG**. Testing for functional convergence in Neandertal and Inuit lower rib morphology in terms of cold-adaptation. *American Journal of Physical Anthropology*. Suppl. 40:98.
- 2005 Holton, NE, **Franciscus, RG**, Kilberger, M, Michael, A. Variation in mandibular gonial flare in Neandertals and recent humans: a pattern recognition study. *American Journal of Physical Anthropology*. Suppl. 40:118.
- 2004 Trinkaus, E, Moldovan, O, Milota, Ş, Gerhase, M, Sarcina, L, Bîlgăr, A, Rodrigo, R, Bailey, SE, **Franciscus, RG**, Ponce de León, M, Zollikofer, CPE. Bones, Bodies and Bears in the Peştera cu Oase, Romania. *PaleoAnthropology A-71*.
<http://www.paleoanthro.org/journal/content/PAS2004A.pdf>
- 2004 Holton, NE, **Franciscus, RG**, Forman-Hoffman, VL. Causal modeling of nasal breadth and intercanine distance in fossil and recent *Homo*. *American Journal of Physical Anthropology*. Suppl. 38:116.
- 2003 **Franciscus, RG**. Comparing internal nasal fossa dimensions and classical measures of the external nasal skeleton in recent humans: Inferences for respiratory airflow dynamics and climatic adaptation. *American Journal of Physical Anthropology*. Suppl. 36:96-97.

- 2003 Polanski, JM, **Franciscus, RG**. Conditional independence modeling of neurocranial, facial, and masticatory integration in *Pan*, *Gorilla* and recent *Homo*. *American Journal of Physical Anthropology*. Suppl. 36:169.
- 2003 Miller, SF, Yokley, TR, Churchill, SE, **Franciscus, RG**, Hublin, JJ, Eaves-Johnson, KL. A new technique for reconstructing the vocal anatomy of fossil humans. *American Journal of Physical Anthropology*. Suppl. 36:151-152.
- 2002 Toll, CD, **Franciscus, RG**. The Kebara 2 Neandertal hyoid and speech capacity revisited: size and shape relative to mandibular dimensions. *American Journal of Physical Anthropology*. Suppl. 34:155-156.
- 2001 Holliday, TW, **Franciscus, RG**. Multivariate assessment of body shape in A.L. 288-1 ("Lucy"). *American Journal of Physical Anthropology*. Suppl. 32:82.
- 2000 **Franciscus, RG**, Schoenebaum, CR. Cross-sectional metric analysis of scapular axillary border morphology in recent humans and the Krapina Neandertals. *American Journal of Physical Anthropology*. Suppl. 30:152.
- 1999 **Franciscus, RG**. Unique vs. non-unique aspects of Neandertal upper respiratory anatomy. *Journal of Human Evolution* 36:A7 (*PaleoAnthropology Society*).
- 1998 Weaver, TD, **Franciscus, RG**, Karlin, CC, Burson, EA, Gust, KA. 3-D coordinate analysis of the Kebara 2 Neandertal pelvis. *American Journal of Physical Anthropology*. Suppl. 26:228.
- 1997 **Franciscus, RG**. Multivariate allometry in cranial functional sets and the archaic/modern human dichotomy. Abstract: *American Journal of Physical Anthropology*. Suppl. 24:113.
- 1997 Kallfelz-Klemish, CF, **Franciscus, RG**. Static bite force production in Neandertals and modern humans. *American Journal of Physical Anthropology*. Suppl. 24:140.
- 1996 Rhoads, ML, **Franciscus, RG**. Mandibular notch crest orientation in Neandertals and recent humans. *American Journal of Physical Anthropology*. Suppl. 22:196.
- 1995 **Franciscus, RG**. Later Pleistocene nasofacial variation in Eurasia and Africa and modern human origins. *American Journal of Physical Anthropology*. Suppl. 20:92.
- 1991 **Franciscus, RG**, Long, JC. Variation in human nasal height and breadth. *American Journal of Physical Anthropology*. Suppl. 12:74.
- 1989 **Franciscus, RG**. Neandertal mesosterna and noses: Implications for activity and biogeographical patterning. *American Journal of Physical Anthropology*. 78:223.
- 1988 **Franciscus, RG**, Trinkaus, E. The Neandertal nose. *American Journal of Physical Anthropology*. 75:209.

- 1988 Tompkins, RL, Heller, JA, **Franciscus, RG**. Hominid femoral neck angle and biomechanical neck length. *American Journal of Physical Anthropology*. 75:279.
- 1987 Curran, BK, **Franciscus, RG**, Rhine, JS. Applying a new method of geographical identification on a southwestern population. *American Academy of Forensic Sciences*. 87-1:120.

Research Grants (External)

- n.d. National Science Foundation Integrative Graduate Education and Research Traineeship Program (IGERT): Research and Scholarly Training through I-Evolve (DGE-0935357) PI: McAllister, BF; Co-PIs: Logsdon, JM, Brochu, CA, Budd, AF, **Franciscus, RG**, Blumberg, MS, Depew, D. Selected by NSF for full proposal review (6/11/2009).
- 2008 National Science Foundation Doctoral Dissertation Improvement Grant (BCS-0752723) for K. Lindsay Eaves-Johnson, Co-PI: 3-D modeling of lung volume from thoracic form: a geomorphometric baseline for the study of thoracic patterning in the human fossil record (1 year) **PI: Franciscus, RG** (\$15,000).
- 2006 National Science Foundation Doctoral Dissertation Improvement Grant (BCS-0550036) for N Holton, Co-PI: 3-D modeling of *in vivo* bite force production and efficiency in recent humans as a baseline for evolutionary change in *Homo* (1 year) **PI: Franciscus, RG** (\$11,931).
- 2001 National Science Foundation: REU Supplement Grant (BCS-0118017) Conservation and Curation of the U-Iowa Stanford Collection (1 year) **PI: Franciscus, RG**. Co-PIs: Green, W & Schermer, S (\$6,000).
- 2000 National Science Foundation: Senior Research Grant (BCS-0076725) Conservation and Curation of the U-Iowa Stanford Collection (2 years) **PI: Franciscus, RG**. Co-PIs: Green, W & Schermer, S (\$105,088).
- 1994 L.S.B. Leakey Foundation: General Research Grant Later Pleistocene Hominid Nasal Morphology and Modern Human Origins (1 year) **PI: Franciscus, RG** (\$7,981).
- 1993 National Science Foundation Doctoral Dissertation Improvement Grant (SBR-9312567) for **RG Franciscus, Co-PI**: Nasal Morphology in Western Old World Later Pleistocene Hominids and the Origins of Modern Humans (1 year) PI: Trinkaus, E (\$11,900).

Research Grants & Fellowships (Internal)

- 2009 ICRU Research Fellow grant: Morphometric Analysis of the Mandibular Curve of Spee in Human Evolution. **PI: Franciscus, RG**, Student: Laird, M (\$2,500).
- 2008 UI ATAC Innovations in Instructional Computing Award: Incorporating CT-based Technology in Undergraduate and Graduate Instruction in Human Evolutionary Studies. **PI: Franciscus, RG**; Co-PIs: Ciochon, RL & Holton, NE (\$24,000).
- 2007 UI Iowa Research Experiences for Undergraduates: Analysis of Bio-behavioral Effects on the Shoulder Morphology of Neanderthals and Modern Humans. **PI: Franciscus, RG**, Student: Willman, JC (\$3,000).
- 2005 UI Biological Sciences Funding Program: Testing Hypotheses for Modern Human Facial Form via Sutural Growth Alteration in *Sus scrofa*: Evolutionary Insights and Clinical Benefits. **PI: Franciscus, RG**.
Co-PIs: Nieves, MA, Southard, TE, Keller, JC & Dawson, DV (\$49,080).
- 2005 UI College of Liberal Arts & Sciences Student Computer Fee Proposal: Computer Upgrades for Undergraduate Research in the Biological Anthropology Laboratories. **PI: Franciscus, RG** (\$7,320).
- 2002 UI Second Old Gold Fellowship: Phase II Morphometric Study of Fossil Human Remains from the Central European Dolní Věstonice and Pavlov Sites. **PI: Franciscus, RG** (\$6,000).
- 2001 UI International Programs Research Fellowship: Description and Analysis of the 26,000-year-old Fossil Human Cranial Remains from the Central European Dolní Věstonice and Pavlov Sites. **PI: Franciscus, RG** (\$3,000).
- 2001 UI College of Liberal Arts Educational Computing Grant, University of Iowa: Computer Upgrades for Undergraduate Research in Anthropology Laboratories. **PI: Franciscus, RG**; Co-PI: Ciochon, RL (\$10,000).
- 2000 UI Old Gold Fellowship, University of Iowa: Analysis of the Midface of the Abrigo do Lagar Velho Subadult. **PI: Franciscus, RG** (\$6,000).
- 1998 UI Central Investment Fund for Research Enhancement, University of Iowa: The Stanford Human Anatomy Skeletal Research Collection: Phase I: Reboxing, Records Retrieval, and Preliminary Inventory. **PI: Franciscus, RG**; Co-PIs: Green, W & Schermer, S (\$9,996).
- 1993 Thesis Research Grant, University of New Mexico. **Franciscus, RG** (\$950)
- 1987-1990 Graduate Student Research Allocation, University of New Mexico. **Franciscus, RG** (\$2,200)

Symposia Organized (With Refereed Published Abstracts)

- 1997 **Franciscus, RG**, Crummett, T (co-organizers). *What is 'modern' about modern humans?* Prospects for understanding the archaic/modern dichotomy. Invited symposium held at the 66th Annual Meeting of the American Association of Physical Anthropologists. *American Journal of Physical Anthropology*. Suppl. 24:44-45.
- 1989 Stiner, MC, **Franciscus, RG** (co-organizers). *Bringing together the two halves: Archaeological and paleontological approaches to understanding archaic Homo sapiens*. Invited symposium held at the 58th Annual Meeting of the American Association of Physical Anthropologists. *American Journal of Physical Anthropology*. 78:144,177.

Invited Symposia

- 2005 Invited speaker: *Neanderthals Revisited: New Approaches and Perspectives* (K. Harvati and T. Harrison, co-organizers). Center for the Study of Human Origins, New York University & the Max Planck Institute for Evolutionary Anthropology, Leipzig (1/27-29).
- 2001 Invited discussant: *Read Our Lips, No New Taxa*. (M.H. Wolpoff, organizer). *American Journal of Physical Anthropology*. Suppl. 32:14-15.
- 1999 Invited speaker: *The Krapina Neandertals and Human Evolution in Central Europe: 1899-1999*. (J. Radovčić, organizer). Zagreb and Krapina, Croatia (8/23-26).
- 1996 Invited speaker: *Out of Africa: A Symposium on Human Dispersal*. (F. Brown and F.C. Howell, moderators) L.S.B. Leakey Symposium, Stanford University, 12/7.

Research Highlighted, Media Appearance, Commentary and Scientific Consulting

- 2009 Human Spear Likely Cause of Death of Neandertal. *ScienceDaily* News(7/22/09) <http://www.sciencedaily.com/releases/2009/07/090720163729.htm>
Additional coverage in *Time Magazine*, Vol. 174 No. 5 (8/10/09) and online coverage: MSNBC, National Geographic, Fox News, Discover, Yahoo News, Time.com, US News & World Report, University World News, and Telegraph, UK.
- 2009 Commentary: Franciscus, RG. (2009) When did the modern human pattern of childbirth arise? New insights from an old Neandertal pelvis. *Proc. Natl. Acad. Sci. USA* 106:9125-9126, cited in: Faculty of 1000 Biology (<http://www.f1000biology.com>) Reviewed at: <http://www.f1000biology.com/article/id/1162165#cite> (6/17/09).
- 2008 Why did Neanderthals have such big noses?: *New Scientist* (10/27/08).

- 2008 A nose for science. *The Daily Iowan* (11/3/0/08).
<http://www.dilibraryarchive.com/pdf/metro.pdf>
- 2007 The Last Human: A Guide to Twenty-Two Species of Extinct Humans (G.J. Sawyer & V. Deak), New Haven: Yale University Press, 256 pages: Scientific consultant.
- 2007 *40,000-year-old Skull Shows Both Modern Human and Neandertal Traits*. EurekAlert (1/15/07) http://www.eurekalert.org/pub_releases/2007-01/uob-4ss011207.php
Additional online coverage: CNN, LiveScience, MSNBC, ABC News, Discovery, Telegraph, UK and BBC News.
- 2006 Quarks & Co: “On the Trail of Neanderthals” (WDR Television, Köln, Germany): Scientific consultant and film participant (airdate: 7/18/2006).
- 2006 Welt der Wunder “The Voice of Neandertals” (RTL2 Television, Munich, Germany): film participant (airdate: 5/7/2006).
- 2006 Ask Discover: Could Neanderthals and modern humans have spoken to each other? *Discover Magazine* (July, 2006) 27:16.
- 2005 Random Samples, Neandertal bite not incisive. *Science* 308:1110 (C. Holden).
- 2005 Una forza masticatoria da uomo preistorico (“The masticatory force of prehistoric humans”). *Giornale dell’Odontoiatra* June:5 (D. Bellinzani).
- 2004 BBC Horizon Documentary “*Neanderthal*” (Program No: PAD-5360-PRG3): Scientific consultant and film participant (initial airdate: 2/10/2005).
- 2003 News Focus, First modern remains in Europe. *Science* 300:894 (A. Gibbons).
- 2002 Iowa Talks, “The Neanderthal Mystery” Public Radio WSUI-AM 910 (airdate: 11/7/2002).
- 2002 Cover Story: What makes us human? *Iowa Alumni Magazine* October, 55(5):16-19 (T. Owen).
- 2000 University of Iowa Update: Skeletal biology at UI, Television ESPN2 (airdate: 1/8/2000).
- 1999 News Focus, A new look into Neanderthals’ noses. *Science* 285:31-33 (C. Holden).
- 1999 Human beings taller, healthier as years go by. *Iowa City Press Citizen* January 23/27 (J.A. Carlson).
- 1991 The secret life of the Neanderthal. *Omni* October 14(1):42-56 (S. Rudavsky).
- 1990 Origins Watch, Traveling man (*Homo erectus*). *Discover* June 11(6):22 (T. Waters).

- 1990 Almost Human. *Discover* May 11(5):43-53 (T. Waters).
1988 Limits to a Neanderthal nose. *New Scientist* June 1615:33).

Invited Lectures (International)

- 2009 International de la Société d'Anthropologie de Paris. Paris, France, 1/27 (w/ TW Holliday)
2004 Max Planck Institute, Leipzig, Germany, 10/27
2004 Centre National de la Recherche Scientifique (C.N.R.S.), Paris, France, 1/31
2000 Laboratoire de Anthropologie, Université de Bordeaux I, Bordeaux, France, 11/10
2000 Centre National de la Recherche Scientifique (C.N.R.S.), Paris, France, 11/8
1998 Department of Biological Science, Cambridge University, Cambridge UK, 4/24 (declined)

Invited Lectures (National)

- 2007 CLAS Dean's Advisory Board, University of Iowa, 9/7
2007 Department of Orthodontics, University of Iowa, 5/4
2006 Department of Biological Anthropology & Anatomy, Duke University, Durham, 4/21
2005 Department of Anthropology, New York University, NY, 1/27
2004 Department of Anthropology, Loyola University, Chicago 11/9
2003 Department of Anthropology, University of Wisconsin, Madison, 12/12
2002 Saturday Scholars Program, University of Iowa, 11/9
2001 Department of Psychology, University of Iowa, 11/28
2001 Department of Neurosurgery, University of Iowa Hospitals & Clinics, 6/22
1999 Department of Geological Sciences, University of Iowa, 11/19.
1999 Presidential Oakdale Seminar, University of Iowa, 10/13.
1998 Department of Anthropology, Stanford University, 3/9
1998 Department of Anthropology, University of Iowa, 2/23
1998 Department of Anthropology, Tulane University, 2/16.
1997 Department of Anthropology, University of California – Santa Cruz, 11/21.
1997 Diablo Valley College, California 4/26.
1996 L.S.B. Leakey Symposium, Stanford University, 12/7.
1996 David H. Koch Lecture Series, Institute of Human Origins, Berkeley, 10/28.
1995 Human Biology Core Lecture Series, Stanford University, 10/25.
1995 Department of Anthropology, Stanford University, 4/10.
1995 Ruth E. Kennedy Award Memorial Lecture, University of New Mexico, 4/20.

GRADUATE TEACHING AND MENTORING

Doctoral Theses Chaired

- 2009 Joshua M. Polanski. Morphological Integration of the Cranium during Ontogeny in *Homo sapiens* and *Pan troglodytes* (U Iowa, Anthropology; May 2009).

- 2009 Nathan E. Holton. Modeling of Masticatory Biomechanics in Living Humans as a Baseline for Testing Functional Hypotheses in Fossil *Homo*. Funded by NSF (U Iowa, Anthropology; July 2009).
- ABD Steven F. Miller. The Patterning and Determinants of Craniofacial Robusticity in *Homo sapiens* (U Iowa, Anthropology; Thesis defense expected fall 2009).
- ABD K. Lindsay Eaves-Johnson. 3-D Modeling of Lung Volume from Thoracic Form: A Geo-Morphometric Baseline for the Study of Thoracic Patterning in Fossil *Homo*. Funded by NSF and Wenner-Gren (U Iowa, Anthropology).
- ABD Scott D. Maddux. Quantitative Assessment of Infraorbital Morphology in *Homo*: Testing for Character Independence and Evolutionary Significance. Funded by Wenner-Gren and the Leakey Foundation (U Iowa, Anthropology)
- ABD Anna Waterman. Children in Transition: Childhood health in late prehistoric Portugal (3500-2000 BC). Co-chaired with K. Lillios (U Iowa, Anthropology).
- 3rd Yr Christina L. Nicholas. Nasofacial Ontogeny in *Homo* (U Iowa, Anthropology).
- 3rd Yr Jill E. Scott. Spatial Determinants of Chin Development in *Homo* (U Iowa, Anthropology).

Doctoral Theses Committee Member

- 2006 Todd R. Yokley. The Functional and Adaptive Significance of Anatomical Variation in Recent and Fossil Human Nasal Passages. Funded by the Leakey Foundation. Committee chair: SE Churchill (Duke U, Biological Anthropology & Anatomy).
- 2006 Grant S. McCall. Lithic Technological Perspectives on Early Hominid Site Use and Mobility Strategies. Committee chair: JE Enloe (U Iowa, Anthropology).
- 2006 Jessica L. White. Functional Morphology and Evolution of the Adapiform Dentition, with Particular Emphasis on the Asian Sivaladapidae. Committee Chair: RL Ciochon (U Iowa, Anthropology).
- ABD Daniel Proctor. Quantitative Shape Analysis of the Metatarsal Proximal Articular Surfaces. Committee chair: RL Ciochon (U Iowa, Anthropology).
- ABD Hannah Marsh. Testing Cranial Vault Thickness as a Species Indicator in Pleistocene *Homo*. Committee chair: RL Ciochon (U Iowa, Anthropology).
- ABD Alexander D. Woods. Experimentally Determined Constraining Effects of Raw Material Quality on Blade Production. Committee chair: JE Enloe (U Iowa, Anthropology).

Masters Committees Chaired

- 2001 Cynthia D. Toll. Neandertal Cervical Vertebrae and their Development and Functional Integration into the Ectobasicranium: Implications for Language, Behavior and Phylogeny. (MA: U Iowa, Anthropology).
- 2002 Valerie Johnson. A Comparative Archaeological and Anatomical Study of Throwing Technology and Shoulders in the Late Pleistocene (MA: U Iowa, Anthropology).

Masters Committees Member

- 2002 Blythe A. Bowman. Chemical Evidence for Differential Dietary Practice and Dental Health in Roman Dobrodja: A Strontium-Calcium Study. Committee chair: RL Ciochon (MA: U Iowa, Anthropology).
- 2005 Matthew H. Caspersen. The Development of the Curve of Spee in Man. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2005 Cory B. Edwards. Timing of Facial Growth Completion by Dimension. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2007 Marlene A. Sanabria. Long-Term Effects of High Pull Headgear. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2007 Daniel B. Gabriel. Reproducibility Assessment of the Cervical Vertebrae Maturation Method. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2008 Todd W. Rasch. Investigation of Facial Suture Forces. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2008 Laura E. Low. Chin Development in Extant Modern Humans: A Longitudinal Study of a Normal Sample. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2009 Trenton S. Nestman. Reliability of the Morphologic Criteria used in the Cervical Vertebral Maturation Method. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2009 Layne McCord. In Vitro Interproximal Tooth Wear: A Feasibility Study. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2009 Suzanne Stock. Investigation of Depository and Resorptive Surfaces of Bone Using the Scanning Electron Microscope / Replicate Technique. Committee chair: TE Southard (MS: U Iowa, Orthodontics).
- 2009 Steven N. Woodall. Effect of Mini-screw Angulation on Skeletal Orthodontic Anchorage. Committee chair: TE Southard (MS: U Iowa, Orthodontics).

Pending Maura J. Vroman. Differential Growth of the Frontonasal Suture. Committee chair: TE Southard (MS: U Iowa, Orthodontics).

ACADEMIC SERVICE

Professional Service

Committees

2004-2005 American Association of Physical Anthropologists student awards committee member

Journal Peer Review

Anatomical Record

American Journal of Physical Anthropology

Journal of Archaeological Science

Journal of Human Evolution (reviewer, and Associate Editor 2006-2008)

PaleoAnthropology

Proceedings of the National Academy of Sciences

Reviews for Book Presses

Cambridge University Press

John Wiley & Sons, Inc.

Reviews for Granting Agencies

L.S.B. Leakey Foundation

National Science Foundation

John Simon Guggenheim Memorial Foundation

Community Service

Forensic Consulting and Identification

2007 Autopsy Services, Department of Pathology, University of Iowa

2006 Iowa City Police Department, Iowa City, Iowa, Case #2006031032

2002 Linn County Sheriff's Department, Cedar Rapids, Iowa, Case #01-44495

2001 Linn County Sheriff's Department, Cedar Rapids, Iowa, Case #01-22835

2001 Muscatine County Sheriff's Office, Muscatine, Iowa, Case #01-8173

2000 Johnson County Sheriff's Department, Iowa City, Iowa, Case #00015098

1999 Linn County Sheriff's Department, Cedar Rapids, Iowa, Case #99-9243

1999 Linn County Sheriff's Department, Cedar Rapids, Iowa, Case #99-01527

1998 Johnson County Sheriff's Department, Iowa City, Iowa, Case #98015626