

CURRICULUM VITAE

ROBERT C. McCARTHY, Ph.D.

PERSONAL

Born November 12, 1973, Voorhees NJ

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RESEARCH INTERESTS

Evolution of human speech and language; growth and development of primate and hominin skulls; geometric morphometrics; comparative methods and primate life history

PROFESSIONAL APPOINTMENTS

2012 – pres. Assistant Professor, Benedictine University
2011 – 2012 Visiting Assistant Professor, University at Albany
2005 – 2011 Assistant Professor, Florida Atlantic University
2005 – 2006 Research Associate, Department of Anthropology, Harvard University
2004 – 2005 Lecturer on Biological Anthropology, Harvard University
2002 – 2004 Postdoctoral Lecturer, Washington University in St. Louis

EDUCATION

2004 Ph.D., Hominid Paleobiology, The George Washington University
Dissertation Title: *Constraints on Primate Craniofacial Growth and Architecture*
Dissertation Committee: Daniel Lieberman, Bernard Wood, Alison Brooks,
David Strait, Brian Richmond, Matthew Ravosa
2000 M.Phil., Hominid Paleobiology, The George Washington University
1996 B.A. *magna cum laude*, Anthropology, Rutgers University
Senior Honors Thesis Title: *Cranial Base Flexion in Humans and Chimpanzees*

REFEREED PUBLICATIONS

Articles in Refereed Journals

- 2011 Hammond, Ashley S., Elizabeth R. Dumont, **Robert C. McCarthy**. The effect of permanent tooth crowns on the distribution of craniofacial stress in children. *PLoS ONE* 6, e29121.
- 2010 Graves, Ronda R., Amy C. Lupo, **Robert C. McCarthy**, Daniel J. Wescott, Deborah L. Cunningham. Just how strapping was KNM-WT 15000? *Journal of Human Evolution* 59, 542-554.
- 2010 Butaric, Lauren, **Robert McCarthy**, Douglas Broadfield. A preliminary 3-D computed tomography study of the human maxillary sinus and nasal cavity. *American Journal of Physical Anthropology* 143, 426-436.
- 2007 Lieberman, Philip, **Robert C. McCarthy**. Tracking the evolution of language and speech: Comparing vocal tracts to identify speech capabilities. *Expedition* 49, 15-20.
- 2001 **McCarthy, Robert C.** Anthropoid cranial base architecture and scaling relationships. *Journal of Human Evolution* 40, 41-66.
- 2001 **McCarthy, Robert C.**, Daniel E. Lieberman. Posterior maxillary (PM) plane and anterior cranial architecture in primates. *Anatomical Record* 264, 247-260.
- 2001 Lieberman, Daniel E, **Robert C. McCarthy**, Karen M. Hiiemae, Jeffery B. Palmer. The ontogeny of postnatal hyoid and larynx descent in humans. *Archives of Oral Biology* 46, 117-128.
- 1999 Lieberman, Daniel E., **Robert C. McCarthy**. The ontogeny of cranial base angulation in humans versus chimpanzees and its implications for reconstructing pharyngeal dimensions. *Journal of Human Evolution* 36, 487-517.

Articles Submitted to Refereed Journals

- in revision **McCarthy, Robert C.** Evolution of the hominin vocal tract and tongue. *Journal of Human Evolution*.
- in revision **McCarthy, Robert C.** Paleoanthropological evidence for speech and language. *Evolutionary Anthropology*.
- in revision **McCarthy, Robert C.**, Lynn Lucas. Do the Herto specimens represent a new subspecies of *Homo sapiens*? *Journal of Human Evolution*.

- in revision Graves, Ronda R., **Robert C. McCarthy**, Amy C. Lupo, Daniel J. Wescott, Deborah L. Cunningham. Reassessment of body mass in KNM-WT 15000. *Journal of Human Evolution*.
- in revision Lupo, Amy C., **Robert C. McCarthy**. Neanderthal reproduction, fertility, and life history. *Journal of Human Evolution*.
- submitted **McCarthy, Robert C.**, David S. Strait, Franklin W. Yates, Philip Lieberman. The origins of fully modern human speech capabilities. *South African Journal of Science*.

Articles to be Submitted to Refereed Journals

- **McCarthy, Robert C.**, Amy C. Lupo, Libby W. Cowgill. Neanderthal weaning, brain growth, and the evolution of human childhood. *PaleoAnthropology*.
- **McCarthy, Robert C.**, David S. Strait. Soft tissue constraints on primate basicranial flexion and length. *Journal of Anatomy*.
- **McCarthy, Robert C.**, Thomas A. DiVito. The role of similarity in hominin taxonomy. *Journal of Human Evolution*.
- **McCarthy, Robert C.**, Daniel E. Lieberman. Constraints on primate craniofacial growth and architecture. *Journal of Human Evolution*.
- Lantz, Justin, **Robert C. McCarthy**. Spatial constraints on dental development and eruption. *Journal of Human Evolution*.
- **McCarthy, Robert C.**, Thomas A. DiVito. Incongruence and homoplasy in the mammalian skeleton. *Cladistics*.

Published Abstracts

- 2012 **McCarthy, Robert C.**, Ronda R. Graves, Amy C. Lupo, Deborah L. Cunningham, Daniel J. Wescott. Encephalization in Pleistocene *Homo* revisited. American Association of Physical Anthropologists (poster presentation)
- 2012 Burdelesky, Brittany A., **Robert C. McCarthy**. Scaling and developmental integration in the *Paranthropus* head. American Association of Physical Anthropologists (poster presentation)
- 2010 **McCarthy, Robert C.**, Thomas A. Divito. The role of phylogenetic theory in taxonomic practice. *American Journal of Physical Anthropology Suppl.* 50, 166 (poster presentation)

- 2010 Graves, Ronda R., **Robert C. McCarthy**, Amy C. Lupo, Daniel J. Wescott, Deborah L. Cunningham. New estimates of stature and body mass for KNM-WT 15000. *American Journal of Physical Anthropology Suppl.* 50, 115 (oral presentation; led to publication)
- 2010 Lupo, Amy C., **Robert C. McCarthy**. Neanderthal reproduction, fertility, and life history. *PaleoAnthropology PAS 2010*, A18 (poster presentation; led to submitted manuscript)
- 2009 George, Ian D., Robert H. Blanks, Chet C. Sherwood, **Robert C. McCarthy**, Douglas C. Broadfield. Relative prefrontal cortex surface area in *Pan troglodytes* and *Homo sapiens*. *American Journal of Physical Anthropology Suppl.* 48, 132 (poster presentation)
- 2008 Hamm, Kellie M., Adam D. Gordon, **Robert C. McCarthy**, Lynn Lucas, David S. Strait. Metric variation in the genus *Homo*. *American Journal of Physical Anthropology Suppl.* 46, 112 (poster presentation)
- 2008 Hess, Meghan, **Robert C. McCarthy**. Were Neanderthals tongue-tied? *American Journal of Physical Anthropology Suppl.* 46, 117 (poster presentation)
- 2008 Holmes, Megan A., **Robert C. McCarthy**, Mark P. Mooney, Michael I. Siegel. Developmental integration in the primate sphenoid and ethmomaxillary complex. *American Journal of Physical Anthropology Suppl.* 46, 119 (poster presentation)
- 2008 Lucas, Lynn, **Robert C. McCarthy**. Structural constraints on temporalis size and shape. *American Journal of Physical Anthropology Suppl.* 46, 142-143 (poster presentation)
- 2008 **McCarthy, Robert C.**, Ashley Hammond, Philip Lieberman. Voices out of the past: synthesizing Neanderthal speech. *American Journal of Physical Anthropology Suppl.* 46, 151-152 (oral presentation)
- 2007 Butaric, Lauren N., Douglas C. Broadfield, **Robert C. McCarthy**. A preliminary study on the relationship between nasal cavity and maxillary sinus volumes. *American Journal of Physical Anthropology Suppl.* 44, 82 (poster presentation; led to publication)
- 2007 **McCarthy, Robert C.**, Megan Holmes, Lynn Lucas, Kathryn O'Donnell. Taxonomy of Middle Pleistocene humans: what is *Homo heidelbergensis*, anyway? *American Journal of Physical Anthropology Suppl.* 44, 167 (oral presentation)
- 2007 Lantz, Justin, **Robert C. McCarthy**. *Homo erectus* taxonomy: A reconsideration of the single-species hypothesis. *American Journal of Physical Anthropology Suppl.* 44, 150 (poster presentation)

- 2007 Lucas, Lynn, **Robert C. McCarthy**. Temporalis configuration and morphological integration in Middle Pleistocene hominids. *PaleoAnthropology PAS 2007*, A16 (poster presentation)
- 2007 **McCarthy, Robert C.**, Lynn Lucas, Megan Holmes, Kathryn O'Donnell. The taxonomic status of early *Homo sapiens* from Herto, Ethiopia. *Paleoanthropology PAS 2007*, A19 (poster presentation)
- 2006 **McCarthy, Robert C.** Supralaryngeal vocal tract morphology in the rhesus macaque (*Macaca mulatta*): A geometric morphometric analysis of growth, development and integration. Society for Integrative and Comparative Biology meeting, Orlando, FL, January 7 (poster presentation)
- 2006 Lieberman, Philip, **Robert C. McCarthy**, David S. Strait. The recent (50,000 year-old) evolution of the human vocal tract. *Journal of the Acoustical Society of America* 119, 3441 (oral presentation)
- 2006 **McCarthy, Robert C.**, David S. Strait, Franklin W. Yates, Philip Lieberman. The origin of human speech. *PaleoAnthropology PAS 2006*, A23 (oral presentation; led to publication)
- 2005 Wrangham, Richard, Zarin Machanda, **Robert C. McCarthy**. Cooking, time budgets, and the sexual division of labor. *American Journal of Physical Anthropology Suppl.* 40, 226-227 (oral presentation by 3rd author)
- 2005 **McCarthy, Robert C.**, David S. Strait. Constraints on speech capacity during hominin evolution. *PaleoAnthropology PAS 2005*: A02 (oral presentation; led to publication)
- 2002 Allard, Marc, **Robert C. McCarthy**, Bernard A. Wood. Incongruence and homoplasy in the mammalian skeleton. *American Journal of Physical Anthropology Suppl.* 34, 36-37 (oral presentation by 2nd author)
- 2002 **McCarthy, Robert C.**, David S. Strait, E. Christopher Kirk. Soft tissue constraints on basicranial flexion and length. *American Journal of Physical Anthropology Suppl.* 34, 109 (oral presentation)
- 2001 **McCarthy, Robert C.** Testing hypothesized constraints on primate and hominin skull form. *American Journal of Physical Anthropology Suppl.* 32, 105 (oral presentation)
- 2001 **McCarthy, R.C.** Incongruence and homoplasy in the mammalian skeleton. *Cladistics* 18, 226-227 (oral presentation)
- 2000 Lieberman, Daniel E., **Robert C. McCarthy**. The PM plane and the "facial block:" New evidence for constraint on primate and hominid craniofacial shape.

- American Journal of Physical Anthropology Suppl.* 30, 210 (oral presentation; led to publication)
- 2000 McBratney, Brandeis M., **Robert C. McCarthy**, Daniel E. Lieberman. Facial projection and the origin of modern humans. *American Journal of Physical Anthropology Suppl.* 30, 223 (oral presentation)
- 2000 **McCarthy, Robert C.** Separating the baby from the bathwater: Facial vs. neurocranial characters and the origin of modern humans. *American Journal of Physical Anthropology Suppl.* 30, 224 (oral presentation)
- 1999 **McCarthy, Robert C.** Cranial base architecture and the scaling relationships of the anthropoid skull. *American Journal of Physical Anthropology Suppl.* 28 (oral presentation; won Aleš Hrdlička prize for outstanding student presentation; led to publication)
- 1998 **McCarthy, Robert C.** Cranial base angulation and facial growth in *Homo*: A comparative longitudinal and intertaxonomic study. *American Journal of Physical Anthropology Suppl.* 26, 157 (poster presentation)
- 1998 Lieberman, D.E., **R.C. McCarthy**, Karen M. Hiiemae, Philip Lieberman, Jeffery B. Palmer. New estimates of fossil hominid vocal tract dimensions. *Journal of Human Evolution* 34, A12-A13 (oral presentation)
- 1997 **McCarthy, Robert C.**, Daniel E. Lieberman. Reconstructing vocal tract dimensions from cranial base flexion: An ontogenetic comparison of cranial base angulation in humans and chimpanzees. *American Journal of Physical Anthropology Suppl.* 24, 163-164 (oral presentation; led to publication)

Invited Lectures

- 2012 **McCarthy, Robert C.** New perspectives on human speech and language. Benedictine University Science and Sociability seminar, November 30, 2012.
- 2009 **McCarthy, Robert C.** Who we are and how we came to be: perspectives on our origins. Florida Atlantic University, conference held March 26, 2009.
- 2007 **McCarthy, Robert C.**, Philip Lieberman. Recent evolution of fully modern spoken language. 11th Annual Evolutionary Biology meeting, September 19 – 21, Marseilles, France (oral presentation)
- 2007 **McCarthy, Robert C.** Origins of human speech. 10th Annual Japanese-American Frontiers of Science conference, December 1 – 3, Shonan Village, Kanagawa, Japan (oral presentation)

2006 **McCarthy, Robert C.**, Daniel E. Lieberman. Constraints on primate craniofacial growth and architecture. Donald Enlow *Festschrift*, NYC (oral presentation)

Other Publications

2010 **McCarthy, Robert C.** Evolution of speech anatomy. *Cambridge Encyclopedia of Languages and Linguistics*.

GRANTS AND FELLOWSHIPS

External Grants

2006 – 2007 Leakey Foundation General Research Grant for “Mandibular Anatomy Related to the Hominin Speech Apparatus” (\$12,000)

2001 - 2002 National Science Foundation Dissertation Improvement Grant #BCS-0107474 for “Constraints on Primate Craniofacial Growth and Form” (\$11,975)

2002 Sigma Xi Grant-in-Aid of Research (\$500)

Fellowships

2001 - 2002 Smithsonian Institution Pre-doctoral Fellowship (\$12,000)

2002 Center for the Advanced Study of Human Paleobiology Graduate Fellowship (\$9,000)

1997 - 2000 National Science Foundation Graduate Fellowship (\$75,000)

Internal Grants

2013 Benedictine University College of Science Summer Research Grant (\$1,200) for “A Magnetic Resonance Imaging (MRI) Study of Variation in Vowel Production and Vocal Tract Size and Shape”

2007 Dorothy F. Schmidt College of Arts and Letters Scholarly and Creative Activity (SCAF) 2-course teaching release, for work on “Evolution of Speech and Language”

2006 Florida Atlantic University Teaching Development Award for “Teaching Development for Forensic Anthropology” (\$2,975)

- 2000 Lewis B. Cotlow Field Research Grant, Department of Anthropology, George Washington University (\$1,500)
- 1996 Rutgers College Bigel Fellowship for Undergraduate Research (\$600)
- 1996 Research Award from the Rutgers College Dean's Office (\$600)

External Grant Applications

- 2008 National Science Foundation Major Research Instrumentation (MRI) Grant for “Acquisition of an Integrated High Resolution 3D Scanning and Printing System for Fundamental and Applied Research/Education at Florida Atlantic University,” with Dr. Douglas Broadfield, Dr. Clifford Brown (Anthropology), Dr. Oren Masory (Engineering), Dr. Janet Blanks (Complex Systems and Brain Sciences) (\$758,042)
- 2008 National Institutes of Health Science, Technology, Engineering and Mathematical Education (STEM) Challenge Grant 12-AG-101 for “Learning Human Evolutionary Biology,” with Dr. Deborah Cunningham (Biomedical Sciences) and Dr. Donald Ploger (Education) (\$500,000)
- 2008 National Education Association Foundation for “Problem-Based Learning in Human Evolution Teaching” (\$5,000)
- 2006 Wenner Gren Foundation for “Speech Anatomy in the Earliest Modern Humans” (\$8,480)

AWARDS AND HONORS

- 1999 Aleš Hrdlička Award for outstanding student presentation at the 1999 American Association of Physical Anthropologists’ Annual Meeting
- 1996 Highest Honors for Senior Honors Thesis, Department of Anthropology, Rutgers University
- 1995 Golden Key National Honor Society
- 1992 Phi Eta Sigma National Freshman Honor Society
- 1992 - 1996 Garden State Distinguished Scholar Award (\$6,000)
- 1992 - 1996 6-time Deans’ List recipient, Rutgers College
- 1992 - 1996 United Transportation Companies of America Undergraduate Scholarship (\$16,000)

TEACHING EXPERIENCE

Fall 2013	Human Anatomy (+ lab), Gross Dissection Anatomy
Spring 2013	Human Anatomy (+ lab), Human Evolution
Fall 2012	Human Anatomy (+ lab)
Spring 2012	Anatomy and Physiology II, Human Population Biology, Human Osteology
Fall 2011	Anatomy and Physiology I, Human Population Biology, Human Osteology
Spring 2011	Primate Evolution, Forensic Anthropology, Graduate Seminar in Biological Anthropology
Fall 2010	Evolution and Creationism, Research Methods in Bioarchaeology
Summer 2010	Human Evolution
Spring 2010	Human Evolution, Introduction to Forensic Science, Language and Cognition, Graduate Seminar in Biological Anthropology
Fall 2009	Evolution and Creationism, Research Methods in Bioarchaeology
Summer 2009	Human Evolution
Spring 2009	Human Evolution, Introduction to Forensic Science, Language and Cognition, Graduate Seminar in Biological Anthropology
Fall 2008	Primate Life History, Evolution and Creationism
Summer 2008	Forensic Anthropology
Spring 2008	Forensic Anthropology, Introduction to Biological Anthropology, Graduate Seminar in Biological Anthropology
Spring 2007	Forensic Anthropology, Primate Life History, Graduate Seminar in Biological Anthropology
Fall 2006	Human Variation, Biological Anthropology
Summer 2006	Human Evolution
Spring 2006	Primate Life History, Graduate Seminar in Biological Anthropology
Fall 2005	Human Variation, Biological Anthropology

Spring 2005	Primate Life History and Development Teaching Assistant, Introduction to Human Evolution
Fall 2004	Instructor, Comparative Methods in Biological Anthropology Teaching Assistant, Human Anatomy
Spring 2004	Instructor, Craniofacial Biology, Geometric Morphometrics
Fall 2003	Instructor, Human Growth and Development Co-Instructor, Introduction to Human Evolution
Spring 2003	Instructor, Craniofacial Biology, History and Methods in Systematics
Fall 2002	Instructor, Human Growth and Development Co-Instructor, Introduction to Human Evolution
Spring 2002	Teaching Assistant, Introduction to Physical Anthropology Guest Lecturer, Human Evolutionary Anatomy
Fall 2001	Teaching Assistant, Introduction to Physical Anthropology
Spring 2001	Teaching Assistant, Human Evolutionary Anatomy, Introduction to Archaeology
Fall 2000	Teaching Assistant, Introduction to Physical Anthropology
Spring 1997	Teaching Assistant, Race and Human Variation

WORKSHOPS AND FIELDWORK

Summer 2009	Collected fossil mandibular data in Croatia
Fall 2007	Collected mandibular data in France
Summer 2006	Basic Forensic Science and Medicine Seminar, Virginia Institute of Forensic Science and Medicine, July 31 – August 3
Summer 2006	Substitute co-director, Ecuador Summer Archaeological Field School, Florida Atlantic University
Summer 1997	Hayonim Cave Site and Meged Rock Shelter, Israel, PI: Dr. Ofer Bar- Yosef, Harvard
Summer 1995	Cape May Archaeology Field School, PI: Dr. John Cavallo, Rutgers University

PROFESSIONAL SERVICE

Manuscript Reviewer, *American Journal of Physical Anthropology*, *Folia Primatologica*, *Journal of Anatomy*, *Journal of Human Evolution*, *Comparative Biochemistry and Physiology*

Member, Planning Group for the 11th Annual Japanese – American Kavli Frontiers of Science (JAKFoS) symposium, sponsored by the Japan Society for the Promotion of Science and the U.S. National Academy of Sciences (to be held Dec. 5th – 7th, 2008 in Irvine, CA).

PUBLIC SERVICE AND OUTREACH

Member, Rotary Club of Lisle, 2013-
Member, Human Trajectories Advisory Board, The Lifeboat Foundation
Member, City of Boca Raton Environmental Advisory Board, 2007-2009

PROFESSIONAL AFFILIATIONS

American Association of Physical Anthropologists (AAPA), Paleoanthropology Society, Human Anatomy and Physiology Society (HAPS)

UNIVERSITY SERVICE

2008 – 2010	Senator, FAU United Faculty of Florida
2007 – 2010	Membership Chair, FAU United Faculty of Florida
2006 – 2010	Member, College of Arts & Letters Undergraduate Programs Committee
2006 – 2010	Member, College of Arts & Letters Core Curriculum Task Force
2006 – 2010	Member, Florida Atlantic University United Faculty of Florida Executive Committee
2006 – 2007	Shop Steward (Social Sciences Building), United Faculty of Florida

GRADUATE COMMITTEES

2010 – 2012	Brittany Burdelesky, <i>The Paranthropus Face: Examining a Developmental Model</i> (member, master's thesis committee; graduated fall 2012)
2008 – 2011	Laura Macesic, <i>Electrogenic Capabilities and Locomotory Pattern of the Lesser Electric Ray</i> (member, doctoral dissertation committee; graduated spring 2011)

- 2009 – pres. Thomas DiVito, *Ontogeny and Hominin Phylogeny* (advisor; graduated spring 2011)
- 2009 – pres. James Wheeler, *Group Size and Day-range Length in Mantled Howler Monkeys* (*Alouatta palliata*) (member, master's thesis committee; expected graduation fall 2012)
- 2008 – 2010 Amy Lupo, *Timing of Growth Spurts in Neanderthals* (advisor; graduated spring 2010)
- 2009 – 2010 Jessica Drew, *Does Obesity Affect the Accuracy of Age-at-death Estimation Using the Pubic Symphysis and Auricular Surface?* (advisor; graduated spring 2010)
- 2007 – 2010 Christina Cloutier, *Endocrine Profile of a 72-Year-Old Female Chimpanzee* (*Pan troglodytes*) (member; graduated spring 2010)
- 2008 – 2009 Ronda Graves, *Skeletal Analysis of Human Remains from Plaza San Marcos, Quito, Ecuador* (advisor; graduated fall 2009)
- 2008 – pres. Meghan Hess, *A Behavioral Study of the Role of Geographic Isolation in Capuchin Diversity* (member)
- 2006 – pres. Megan Holmes, *Developmental Integration in the Primate Sphenoid and Ethmomaxillary Complex* (advisor)
- 2007 – 2008 Ashley Hammond, *Occlusal Loading in Developing Homo sapiens and Pan troglodytes Through Finite Element Analyses* (member; graduated spring 2009)
- 2007 – 2008 David Leslie, *Formal Variation in Lithic Projectile Armatures: Reinterpreting Levallois and Mousterian points from Tabun* (member; graduated summer 2009)
- 2006 – 2009 Ian George, *Prefrontal Cortex Surface Area Ratio in Pan troglodytes and Homo sapiens: Its implications for cognitive evolution* (member; graduated summer 2009)
- 2006 – pres. Justin Lantz, *Spatial Constraints on Dental Development and Eruption* (advisor)
- 2006 – 2007 Oscar Montoya, *The Relationship between the Cranial Base and Prognathism of the Upper Maxilla: A comparative study* (co-advisor; graduated fall 2007)
- 2006 – 2007 Kathryn O'Donnell, *The Etiology of Spina Bifida in Ireland: An anthropological approach* (member; graduated summer 2007)

- 2006 – 2007 Lynn Lucas, *Temperomandibular Form in Homo heidelbergensis* (advisor; graduated summer 2007)
- 2005 – 2006 Lauren Butaric, *Correlations Between Maxillary Sinus and Nasal Cavity Volume: An exploratory study into environmental influences on the human maxillary sinus* (member; graduated summer 2006)
- 2005 – 2006 Nichole Jastremski, *Analysis of Osteological Remains from Salango, Ecuador with Comparisons to Four Other Coastal Ecuadorian Sites* (member; graduated spring 2006)

PROFESSIONAL REFERENCES

1. Dr. Daniel Lieberman, Professor of Human Evolutionary Biology, Department of Human Evolutionary Biology, Harvard University, 11 Divinity Avenue, Cambridge, MA 02138; phone: 617-495-5479; e-mail: danlieb@fas.harvard.edu
2. Dr. David Strait, Associate Professor of Anthropology, Department of Anthropology, University at Albany, 1400 Washington Avenue, Albany, NY 12222; phone: (518)442-4717; e-mail: dstrait@albany.edu
3. Dr. Douglas Broadfield, Associate Professor of Anthropology, Department of Anthropology, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431; phone: 561-297-2256; e-mail: broadfie@fau.edu