

BRYCE ANDREW CARLSON, PhD

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EMPLOYMENT

Assistant Professor, Department of Anthropology

Affiliated faculty, Ingestive Behavior Research Center
Affiliated faculty, Interdepartmental Nutrition Program
Purdue University, West Lafayette, IN
Fall 2011 - present

Adjunct Instructor, Department of Anthropology

Emory University, Atlanta, GA
Summer 2009

EDUCATION

Doctor of Philosophy (PhD), Biological Anthropology, 2011

Emory University, Atlanta, GA

Bachelor of Science (BS), Biology, 2003

University of Michigan, Ann Arbor, MI

RESEARCH INTERESTS

Paleonutrition, nutritional ecology, isotopic ecology, primate feeding behavior, stable light element isotopic analyses, food choice, hominin evolution, evolutionary theory, niche partitioning, digestive and metabolic plasticity, biocultural adaptation to extreme stress

PUBLICATIONS

- Press **Carlson BA**, Kingston JD. Chimpanzee isotopic ecology: A closed canopy C3 template for hominin dietary reconstruction. *Journal of Human Evolution*
- Press **Carlson BA**. Grass-fed beef. In: Albala K (Ed.), Food Issues. SAGE Publications
- Press **Carlson BA**. Naturally raised and fed meats. In: Albala K (Ed.), Food Issues. SAGE Publications
- 2014 **Carlson BA**. Book Review: Paleofantasy by Marlene Zuk and The Paleo Manifesto by John Durant. *American Journal of Human Biology* 26(2):229-230
- 2013 **Carlson BA**, Rothman JM, Mitani JC. Diurnal variation in nutrients and chimpanzee foraging behavior. *American Journal of Primatology* 75:342-349
- 2011 **Carlson BA**. Reconstructing diet from the ground up: Isotopic dietary ecology of chimpanzees at Ngogo, Kibale National Park, Uganda. *PhD Dissertation*
- 2007 **Carlson BA**, Kingston JD. Docosaehaenoic acid biosynthesis and dietary contingency: Encephalization without aquatic constraint. *American Journal of Human Biology* 19:585-588

- 2007 **Carlson BA**, Kingston JD. Docosahexaenoic acid, the aquatic diet, and hominin encephalization: Difficulties in establishing evolutionary links. *American Journal of Human Biology* 19:132-141
- 2007 Blanco RA, Ziegler TR, **Carlson BA**, Cheng PY, Park Y, Cotsonis GA, Accardi CJ, and Jones DP. Diurnal variation in glutathione and cysteine redox states in human plasma. *American Journal of Clinical Nutrition* 86(4):1016-1023

MANUSCRIPTS

- In prep **Carlson BA**. Embodied isotopic ecology of Ngogo chimpanzees: Diet to hair fractionation
- In prep **Carlson BA**. Essential fatty acid availability in the Ngogo chimpanzee dietary niche

PRESENTATIONS

- 2013 Research profile: Creating a nutritional and isotopic template for tracking and modeling human evolution. *Ingestive Behavior Research Center (IBRC) Advisory Group*. September 24, 2013
- 2012 Stable isotopes as markers of behavioral ecology. *Institute of Tropical Forest Conservation*. Ruhija, Uganda. May 25, 2012
- 2012 Omega-3 fatty acids and the brain: 21st century nutrition for the study of human evolution. *Ingestive Behavior Research Center Journal Club*. February 22, 2012
- 2011 Dietary ecology in the absence of observation. *Ecology and Evolutionary Biology Seminar*. Purdue University. September 7, 2011
- 2011 Isotopic nutritional ecology at Ngogo, Kibale National Park, Uganda. *American Association of Physical Anthropologists*. Minneapolis, MN
- 2009 The availability of fatty acids to ancestral human foragers and their infants. *American Association of Physical Anthropologists*. Chicago, IL
- 2005 Did/does docosahexaenoic acid constrain encephalization? Argument for an alternative evolutionary role for dietary DHA. *Paleoanthropology Society*. Milwaukee, WI.

POSTERS

- 2014 **Carlson BA**. Elevation and intersite d¹³C variation between chimpanzee dietary niches at Ngogo and Bwindi Impenetrable National Park, Uganda. *American Association of Physical Anthropologists*. Calgary, AB, Canada
- 2012 **Carlson BA**, Rothman JM, Mitani JC. Diurnal variation in sapling nutrients associated with foraging behavior in chimpanzees. *American Association of Physical Anthropologists*. Portland, OR
- 2008 Zuckerman MK, Turner BL, **Carlson BA**, Kingston JD, Armelagos GJ, Hunt DR, Amgalantugs T, Frohlich B. Diet and Disease in Times of War: Analysis of Mummified Human Remains from Southern Mongolia c. 1300-1350 AD. *American Association of Physical Anthropologists*. Columbus, OH
- 2008 Turner BL, Zuckerman MK, **Carlson BA**, Kingston JD, Armelagos GJ, Hunt DR, Amgalantugs T, Frohlich B. Prisoners of war or victims of raids? Population dynamics and their relationship to dynastic upheaval in southern Mongolia c. 1300-1350 AD. *American Association of Physical Anthropologists*. Columbus, OH

PROFESSIONAL SERVICE ACTIVITIES

- 2015 Research Director, Race Across USA
- 2013 Session chair: Infradian Patterns. Ingestive Behavior Research Center (IBRC) Symposium on Eating Patterns and Energy Balance. Purdue University. September 25, 2013

AWARDS, GRANTS, FELLOWSHIPS

- 2014 Purdue Research Foundation Summer Faculty Grant
Fat Consumption in Wild Chimpanzee and Human Evolutionary Contexts
- 2013 Department of Anthropology (Purdue University) – Teaching Excellence Award, nomination
- 2012 Department of Anthropology (Purdue University) – Teaching Excellence Award, nomination
- 2011 Department of Anthropology (Purdue University) – Teaching Excellence Award, nomination
- 2009 National Science Foundation – Doctoral Dissertation Improvement Grant
From Diet to Tissue: Compound Specific Isotopic Routing in Chimpanzees
- 2009 L.B.S. Leakey Foundation – Research Grant
Compound specific isotopic analyses: Chimpanzees of Ngogo, Kibale National Park
- 2005 Paleoanthropology Society – Best Student Podium Presentation
- 2005 National Institute of Health – Predoctoral Training Grant
- 2004 National Institute of Health – Predoctoral Training Grant

FIELD RESEARCH EXPERIENCE

Uganda: Stable isotopic ecology, chimpanzee and gorilla – Bwindi Impenetrable National Park. 2012-present

Uganda: Stable isotopic and nutritional ecology, chimpanzee – Ngogo, Kibale National Park. 2009-present

Kenya: Baringo Paleontological Research Project, Tugen Hills. 2008

Uganda: Nutritional ecology, chimpanzee – Ngogo, Kibale National Park. 2007

TEACHING EXPERIENCE

Purdue University

Biological Bases of Human Social Behavior (1 semester)

Human Diet: Origins and Evolution (3 semesters)

Human Evolution (2 semesters)

Introduction to Biological Anthropology and Human Evolution (6 semesters)

Emory University

Concepts and Methods in Biological Anthropology (*Teaching Assistant*, 3 semesters)

Evolutionary Anthropology (1 semester)

Fast Food, Slow Food (*Teaching Assistant*, 1 semester)

Genetics Lab (*Teaching Assistant*, 1 semester)

Introduction to Anthropology (*Teaching Assistant*, 1 semester)

PEDAGOGY

Discussion leader, Purdue University New Faculty Teaching Workshop (August 2013)

Led small group discussions on strategies for effective classroom instruction and engagement

Purdue University Teaching Workshop – August 2011

A 5-hour workshop including syllabus design, student engagement, discussion of case studies, and information technology

Anthropology Teaching Roundtable – Fall 2008 to 2011

A 2-3 hour discussion scheduled 2-3 times per semester on pedagogy and classroom management

Technology, Pedagogy, and Curriculum Workshop – Spring 2010

A month-long intensive course on the use of technology in the classroom.

PROFESSIONAL AFFILIATIONS

American Association of Physical Anthropologists
American Association for the Advancement of Science
American Society for Nutrition

PEER REVIEW REFEREE

American Journal of Human Biology
American Journal of Physical Anthropology
International Journal of Primatology
National Science Foundation
Physiology & Behavior

UNIVERSITY SERVICE ACTIVITIES

Ingestive Behavior Research Center, Purdue University, Executive Committee (2014-present)
Purdue Forensic Science Advisory Committee (2014-present)
Purdue Young Faculty Association, *Co-Chair* (2013-2014)
Purdue University Faculty Senate, *Senator* (2012-2013)
Green Been Coffee Cart, *Advisor* (2009-2011)
Sustainability Tracking, Sustainable Food Sub-Committee, *Chair* (2010-2011)
Sustainable Food Committee for Emory University, *Presidential invitee and participant* (2007-2011)
Emory University Rowing Team, *Advisor* (2007-2011)