

CURRICULUM VITAE
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Associate Professor
Department of Anatom ical Sciences

CONTACT INFORMATION

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EDUCATION

Medical School	Southern Illinois University School of Medicine, Springfield, Illinois. M.D., 2012.
Graduate School	University of Chicago, Chicago, Illinois, M.A., Anthropology, 1991 University of Chicago, Ph.D., Anthropology, 2001.
College	University of Tennessee, Knoxville, Tennessee, B.A., Organismal Biology, B.A. Anthropology, 1989

CERTIFICATIONS

Basic Life Support , American Heart Association, Alabama, May 1, 2018.
Advanced Cardiac Life Support , American Heart Association, Alabama, May 4, 2018.
Certified Human Osteologist , Illinois Historic Preservation Agency, Springfield, since
1996

ACADEMIC APPOINTMENTS

2021-

CLINICAL TEACHING EXPERIENCE

2022- Clinical Mentor for Early Clinical Experiences for OMSII students at VCOM Auburn. Worked with student assistants on forensic cases at the Montgomery Medical Examiner's Office and on the Auburn University campus. 2-4 students per month, beginning fall 2022.

TEACHING EXPERIENCE

Medical School

As Faculty

- 2023- Cell Biology and Physiology Course , Lecturer in Block 2, bone physiology
- 2022- Pathology and Histology Course , Lecturer in Blocks 1 and 2 (histology and bone pathology) and Virtual Lab Facilitator, VCOM Auburn
- 2021- Anatomical Sciences Course (clinical gross anatomy, embryology, and neuroanatomy), Lecturer and Gross Dissection Faculty, VCOM Auburn
- 2021 Clinical Forensic Medicine Course , ACOM, Course Creator and Clerkship Director, Lecturer and Small-Group Facilitator, distance-learning elective
- 2021 Osteopathic Practice and Principals , Lecturer on Pediatric Cranial Osteology
- 2013-2020 Anatomical Sciences Course (clinical gross anatomy, embryology, and histology), ACOM, Co-Director (2016-2020), Lecturer, Gross Dissection Faculty, Virtual Histology Laboratory Facilitator, Team-Based Learning Facilitator
- 2013-2021 Neuroanatomy Course , ACOM, Lecturer, Laboratory Faculty, Team-Based Learning Facilitator
- 2013-2021 Musculoskeletal Course (bone pathology and rheumatology, anatomy and physiology of fascia), ACOM, Co-Director (2014-2016) and Lecturer
- 2019-2021 Hematology and Lymphatics Course , ACOM, Lecturer in histology
- 2004-2007 Anatomical Sciences Course (clinical gross anatomy, embryology, histology and neuroanatomy), SIU SOM, Lecturer, Gross Dissection Faculty, Histology Laboratory Faculty, Tutor in Problem-Based Learning Curriculum

As Graduate Student Assistant

Human Morphology (gross anatomy, embryology, and histology), University of Chicago (1990-1995)

College and University

As Faculty

Human Anatomy and Physiology, John Wood Community College (Spring 1996), Richland Community College (Fall 2001 and Winter 2002)

General Biology, John Wood Community College (Spring 1996 and Fall 1996)

Introduction to Anthropology (four-field approach), Illinois College (Spring 2001)

Introduction to Forensic Science and Anthropology, Uni

Bioarchaeology

2012 –2013 Human Skeletal Analyst , Illinois State Archaeological Survey (formerly

National Alumni Upper-class Scholarship, University of Tennessee, Knoxville, 1986-1987

Andrew Holt Scholarship, University of Tennessee, Knoxville, 1987-1989

West Knoxville Rotary Club College Scholarship, 1985-1986

PROFESSIONAL SERVICE

National Advisory Committees or Service

- 2023-2026 Member, Board of Directors, Society of Forensic Anthropologists
2023- Member, Age Estimation Best Practices Working Group (ASBCB),
Chair Sara Getz, PhD, D-ABFA
2022- Member, Anthropology Standards Board Consensus Body,
Academy Standards Board, American Academy of Forensic
Sciences
2020-2022 50th Anniversary Celebration Task Force, Anthropology Section,
American Association of Forensic Sciences

Reviewer

Medical Science Educator, Reviewer (2015 - 2020)

Ad-hoc Reviewer

Journal of Medical Primatology, Invited Reviewer (2013)

Folia Primatologica, Invited Reviewer (2019)

MENTORING ACTIVITIES

- 2022- Research advisor to MD/JD student Justine Newman, BS, at Southern
Illinois University School of Medicine (Mentored Professional Enrichment
Experience, Summer 2023)
2022- Mentor to Anthropology graduate student, Austin Lee, at University of
Alabama, Tuscaloosa, who is working on Missing Persons Database
research for Alabama

INSTITUTIONAL SERVICE

- 2023 VCOM, Interprofessional Professional Experience, Small Group
Facilitator, School of Nursing, Auburn University, March 17
2023 VCOM, Auburn, Judge for Research Recognition Day, February 3
2022- VCOM Peer Exam Review Committee (exam editing)
2022 VCOM, Auburn, Judge for Research Recognition Day, February 18
2021-22 VCOM Research Recognition Day Committee, Auburn

GRANTS AND CONTRACTS

Active

KNN Innovation Award

National Network for Flourishing in Medicine Grant

Feb 2023-Jun 2024

Grant Title: Flourishing Approach to Physician Formation

PI: William Pearson

Project title: Vertically Integrated Curriculum for Death and End-of-Life Patient Care

Faculty Lead (.02 FTE): Melinda Carter

Completed

- 2020 Institutional (ACOM) Intermural Grant for Continuing Research (\$2500)
Cadaveric Evidence of Age Changes in the Petro-sphenoidal and Petro-basilar Synchrondroses in the Human Skull with Implications for Cranial Osteopathic Manipulative Medicine. Research intern: Jordan Coulter
- 2019 Institutional (ACOM) Intermural Grant for Continuing Research (\$2500)
Cadaveric Evidence of Age Changes in the Petro-sphenoidal and Petro-basilar Synchrondroses in the Human Skull with Implications for Cranial Osteopathic Manipulative Medicine. Research intern: Nazieh Masserani.
- 2018 Institutional (ACOM) Intermural Grant for Continuing Research (\$2500)
Project I: Cadaveric Evidence of Age Changes in the Petro-sphenoidal and Petro-basilar Synchrondroses in the Human Skull with Implications for Cranial Osteopathic Manipulative Medicine (Co-PI Kevin Hayes, DO)
Research Intern: Tristan Frick
Project II: Examining Intraskkeletal Variability in Bone Chemistry Based on Differential Remodeling Rates
- 2017 Institutional (ACOM) Intermural Grant for Continuing Research (\$2500)
Project I: Cadaveric Evidence of Age Changes in the Petro-sphenoidal and Petro-basilar Synchrondroses in the Human Skull with Implications for Cranial Osteopathic Manipulative Medicine (Co-PI Kevin Hayes, DO)
Research Intern: Eric Emery
Project II: Examining Intraskkeletal Variability in Bone Chemistry Based on Differential Remodeling Rates
- 2016 Institutional Startup Support, Alabama College of Osteopathic Medicine (\$8,293)
- 2008 Mentored Professional Enrichment Experience, SIU School of Medicine summer research project. Project title: Postmortem detection of abused drugs in bone.
Mentor: John Murphy, M.D., Department of Pathology, Memorial Medical Center, Springfield, Illinois.
- 1999 Principal Investigator (with J.E. Buikstra): Wenner-Gren Foundation Pre-doctoral Grant
- 1996 Principal Investigator: Sigma Xi Research Society, Dissertation Research Grant
- 1996 Principal Investigator: Hinds Fund Grant, Committee on Evolutionary Biology, University of Chicago
- 1995 Principal Investigator: Overseas Studies Dissertation Research Fellowship, University of Chicago
- 1994 Principal Investigator: Research and Travel Grant, Center for International Studies, University of Chicago

- Analysis*, British Archaeological Reports International Series 934, edited by E. Williams, Oxford: Archaeopress, pp. 249-254.
- 2000 Carter ML , Cobb DE, and Warren RW. The beauty of bone: II. Human osteology and the lifeways of the Historic Illinois Indians. *The Living Museum*, 61(4):16-20.
- 2000 Cobb DE, Wiant MD, and Carter ML . Human Skeletal Remains Protection Act Investigations, Report No. 9: A Nineteenth-Century Cemetery on Kaskaskia Island, 11R675, Randolph County, Illinois. Illinois State Museum Quaternary Studies Program, Technical Report No. 99-0000-28. Illinois Historic Preservation Agency.
- 1999 Carter ML . Human Skeletal Remains Protection Act Investigations, Report No. 11: Fulton County Coroner Case, Fulton County, Illinois. Illinois State Museum Quaternary Studies Program, Technical Report No. 99-0000-28. Illinois Historic Preservation Agency.
- 1999 Carter ML

2015 Establishment of a New Anatomical Donation Program in Alabama for Medical Education and Research. Wood KL, Foster JD and Carter ML. Alabama

- 2023 Rihner E, Malin O, Carter ML . Skeletons in the Closet: Systematic Review of the Importance of Proper Death Investigation in Rural Areas. Poster presented for VCOM Research Recognition Day, Auburn, AL, February 3.
- 2023 Sisson J, Ford P, Lusk J, Carter ML . F

2003 Champaign Police Department; crime scene investigation and excavation of suspected burial in house basement; report submitted.

2002 Illinois State Police; crime scene mapping and recovery of skeletonized human remains found along Wabash River, Lawrence County, Illinois.

Illinois State Police Case No. N02-0309-9-1; maceration and analysis of badly decomposed body of adult female found along Interstate 64 in Mascoutah, St. Clair County, Illinois; report submitted.

Illinois State Police Case No. N02-0321-9-1; maceration and analysis of badly decomposed body of adult female found along Interstate 70 in Madison County Illinois; report submitted.

Illinois State Police; investigation of human remains found under foundry building in Galena, Illinois.

Illinois State Police Case No. G02-3846-6-3; analysis of adult human cranium found along railroad tracks in Kankakee County, Illinois; trauma analysis; report submitted.

Menard County Coroner: analysis and field investigation of human cranium found in Oakland Cemetery, P0 r TJETQq0.00000912 0 612 792 reW*nBT/F3 12 Tf1 0

- 2018 Workshop Attendance: Introduction to the Medical Science Educator Journal and Basic Reviewing Tips, June 9, International Association of Medical Science Educators, Las Vegas, NV.
- 2018 Workshop Attendance: Expanding Your Horizons Beyond Your Current Academic Unit: What's Next on Your Leadership Pathway, June 9, International Association of Medical Science Educators, Las Vegas, NV.
- 2017 Workshop Attendance: Animal/Plant Health Joint Criminal-Epidemiological Investigations Course, Co-sponsored by the Federal Bureau of Investigation and Animal Plant Health Inspection Service, Auburn University School of Veterinary Medicine, Auburn, AL, May 16-17.
- 2002 Workshop Attendance: Medicolegal Death Investigators Training Course, Saint Louis University School of Medicine, St. Louis, Missouri, April 22-26
- 1994 Graduate Student in tropical rain forest ecology and conservation field school in Kibale National Park, Uganda; directed by Drs. Colin and Lauren Chapman (Zoology, Univ. of FL) (6 weeks) 2019
- Death Scene Archaeology: Outdoor Crime Scene Recovery and Reconstruction Field School, presented by HD Forensics and Tripwire Operations Group, August 5-9, Gettysburg, PA. Instructors: Dennis Dirkmaat, PhD, D-ABFA and FBI Special Agent (Retired) Michael Hochrein
- 1991 Student in University of Chicago archeological field school, Center for American Archaeology, Kampsville, Illinois, under direction of Dr. Jane Buikstra (9 weeks)

Field and Laboratory Research Experience

Forensic crime scene recovery, approximately 20 scene recoveries over the past 25 years with various agencies in Illinois and Alabama; details available upon request.

Analysis of and research on human skeletal remains full-time for 5.5 years at the Illinois State Museum Research and Collections Center, Springfield, Illinois (1996-2002).

Approximately 36 months of archaeological excavations on mortuary and habitation sites in Illinois/USA (1991-current) and Crete, Greece (June/July 1989).

Approximately 12 months part-time dedicated to skeletal analysis and documentation of Native American remains from the Neville Public Museum, Green Bay, Wisconsin, while a graduate student at the University of Chicago

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1997 "How the Anatomy, Physiology, and Chemistry of Human Bone Contribute to the Archaeological Record." Center for American Archaeology Archaeological Field School, Kampsville, Illinois, July.