# **Amber M. Plemons**

### Curriculum Vitae

Department of Anthropology	amber.plemons@uky.edu

University of Kentucky
211 Lafferty Hall,
ResearchGate
Google Scholar

Lexington, KY 40506

### **Education**

Ph.D.	Biological Anthropology	Michigan State University	2016-2022
M.A.	Biological Anthropology	Mississippi State University	2016
B.S.	Anthropology	Texas State University	2011

### **Affiliations**

American Association of Biological Anthropology, Student Member American Academy of Forensic Sciences, Student Affiliate Society of Forensic Anthropologists, Member Dental Anthropology Association, Student Member

# **Research Interests**

Human Variation, Human Evolution, Human Adaptation, Population Affinity, Biodistance, Macromorphoscopic Trait Analysis, Forensic Anthropology, Historical Bioarchaeology, Human Osteology, Cranial Nonmetric Traits, Dental Anthropology, Juvenile Dental Age Estimation, Digital Humanities, Digital Pedagogy, Database Development

# **Appointments**

II	
2022-Present	University Research Postdoctoral Fellow, Office of the Vice President for Research,
	University of Kentucky.
2021-Present	Part-time Lecturer, Department of Sociology, Anthropology, Social Work and Criminal
	Justice, Oakland University.
2021-2022	Graduate teaching assistant, Department of Anthropology, Michigan State University.
2020-2021	Graduate research assistant, Department of Anthropology, Michigan State University.
2019-2020	Laboratory Manager. Forensic Anthropology Laboratory, Michigan State University,
	East Lansing, Michigan.
2016-2019	Graduate research assistant, Department of Anthropology, Michigan State University.
2015-2016	Archaeological Technician. Atkins, Cultural Resources Department, Austin, TX.
2013-2016	Laboratory Manager. Forensic Anthropology and Bioarchaeology Laboratory,
	Mississippi State University, Starkville, Mississippi.

# Honors, Fellowships, Awards

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2021	Visiting Scientist. Visiting Scientist Program, New York Medical Examiner Office.
2021	Fellow. Dissertation Completion Fellowship, Department of Anthropology, Michigan
	State University; \$7,500. Funds for writing dissertation.
2018-Present	Fellow. Campus Archaeology Program, Department of Anthropology, Michigan State
	University.
2018-19	Fellow. Cultural Heritage Informatics, Department of Anthropology and MATRIX: The
	Center for Digital Heritage & Social Sciences, Michigan State University. Develop
	frontend deliverables for presenting cultural heritage projects.

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Research Expe	
2021	Osteological Technician, Michigan State University. Collect macromorphoscopic data for Finnish populations at the Finnish Museum of Natural History.
2020	Graduate Research Assistant. Funding through National Institute of Justice Grant entitled
2020	Investigation of subadult dental age-at-death estimation using transition analysis and
	machine learning methods, Award No. 2018-DU-BX-0182. Score dental development
	from radiographic images, develop project website, and beta testing of analytical
	application.
2016-19	Graduate Research Assistant. Funding through National Institute of Justice Grant entitled
	A Macromorphoscopic Databank: Establishing the Statistical Analysis of
	Macromorphoscopic Data in Forensic Anthropology, Award No. 2015-DN-BX-K012,
	under the direction of Joseph T. Hefner. Database management and collection of
	macromorphoscopic trait data.
2018	Osteological Technician, Michigan State University. Collect macromorphoscopic data for
	African populations at the Natural History Museum, London.
2017	Osteological Technician, Michigan State University. Collect macromorphoscopic data for
	unidentified border crossers at Texas State University.
2016	Osteological Technician, Michigan State University. Collect macromorphoscopic data for
	a Thai population at Khon Kaen University.
2015-16	Archaeological Technician. Atkins, Cultural Resources Department, Austin, TX. Perform
	curatorial services in terms of artifact inventory and analysis, generating reports, and
	prepping documents and artifacts for curation.
2014-15	Osteological Technician. Mississippi State Asylum Cemetery Project, Mississippi State
	University under the direction of Nicholas P. Herrmann. Conducted skeletal analyses
	from the Mississippi State Asylum archaeological site in Jackson, MS with a focus on
	establishing demographics of all individuals and assessing oral pathologies.
2013-15	Osteological Technician. Mississippi State Medical Examiner's Office (MSME),
2013-13	Jackson, MS. Co-authored forensic reports for skeletal remains associated with the
2011 14	MSME. Number of issued reports: 5.
2011-14	Graduate Research Assistant. Funding through National Institute of Justice Grant entitled
	Computerized Reconstruction of Fragmentary Skeletal Remains, Award No. 2011-DN-
	BX-K537 under the direction of Nicholas P. Herrmann. Conducted skeletal analyses of
	highly fragmented skeletal remains from the Morton Shell Mound archaeological site in
	Louisiana.
2012	Osteological Technician. Mitrou Archaeological Project, Study Season, Tragana, Greece
2011	Volunteer, Grady Early Forensic Anthropology Laboratory, Texas State University
2011	Laboratory Internship. The Gault Project; Department of Anthropology, Texas State
	University
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# Field Experience

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2016-present	Osteological Technician, Michigan State University Forensic Anthropology Laboratory.
	Assist in radiographic identifications at medical examiner offices, field recoveries
	throughout Michigan, and laboratory analyses.
2021	Visiting Scientist, New York City Office of Chief Medical Examiner. Participate in
	autopsies, field recoveries and searches, and forensic skeletal investigations associated
	with medical examiner's office.
2021	Database developer and Team Lead. Georgian Association of Forensic Anthropology.
	Led excavation crew for excavation of a commingled mass grave and developed database
	for the fieldwork and skeletal analysis.
2016	Field Technician. Atkins Inc. Participated in Phase I surveys in Louisiana.

2014-15	Field Technician. Starkville Survey Project, Tennessee Valley Archaeological Research. Participated in Phase I and II archaeological surveys.
2014	Survey Member. Forensic Body Recovery, Panola County
2013	Intern. Mississippi State Medical Examiner's Office under the direction of Dr. Mark LeVaughn, Chief Medical Examiner, Jackson, MS. Inventoried and analyzed unidentified
	skeletal remains, entered cases into NAMUS, and assisted in autopsies.
2012-13	Osteological Technician. Mississippi State Asylum Cemetery Project under the direction of Nicholas P. Herrmann, University of Mississippi Medical Center, Jackson, MS; 2012-
2011 12	present. Assisted in the recovery of sixty-six individuals.
2011-13	Field Technician. Mississippi State University's Forensic Research Facility. Monitor and record decomposition processes and collect soil samples for microbial research.
2012	Volunteer. Kemper County Project, Tennessee Valley Archaeological Research
2012	Osteological Technician. Gale Cemetery Burial Recovery under the direction of Nicholas P. Herrmann
2012	Archaeological Survey Field School. Department of Anthropology and Middle Eastern Studies, Mississippi State University
2012	Survey Member. Forensic Body Recovery, Oktibbeha County
2011	Geophysical Technician. Archaeological Gradiometer Survey, Cobb Institute of
	Archaeology, Sewanee, Tennessee
2011	Archaeological Excavation Field School, Belize (Anth 4630). Department of
	Anthropology, Texas State University
2011	Volunteer. The Gault School of Archaeological Research; Bell County, Texas
Funding A	
2021	Research Travel Award, Department of Anthropology, Michigan State University; \$2,000.
	Funds for dissertation data collection.
2020	Travel Award, Department of Anthropology, Michigan State University; \$800. Funds for
	travel to the American Academy of Forensic Science Annual Meeting.
2019	Research Travel Award, Department of Anthropology, Michigan State University; \$1,000.
	Funds for summer research at the American Museum of Natural History, New York.
2019	Travel Award, Department of Anthropology, Michigan State University; \$700. Funds for
	travel to the American Academy of Physical Anthropology Annual Meeting.
2019	Travel Award, Department of Anthropology, Michigan State University; \$400. Funds for travel to the American Academy of Forensic Science Annual Meeting.
2018	Travel Award, Department of Anthropology, College of Social Sciences, Graduate School,
2010	and International Studies & Programs, Michigan State University; \$1,450. Funds to host
	workshop at annual Latin American Forensic Anthropology meeting, Colombia.
2018	Council of Graduate Students Professional Development Award, Michigan State University,
2010	\$500. Funds to host workshop at annual Latin American Forensic Anthropology meeting,
	Colombia.
2018	Research Enhancement Award, Michigan State University, \$2300. Funds for travel to
2010	· · · · · · · · · · · · · · · · · · ·
2017	conduct dissertation research in Italy and Portugal.  Travel Award Department of Anthropology Michigan State University: \$600 Funds for
2017	Travel Award, Department of Anthropology, Michigan State University; \$600. Funds for
2017	travel to the American Academy of Physical Anthropology Annual Meeting.

Travel Award, Department of Anthropology, Michigan State University; \$500. Funds for

Travel Award, Department of Anthropology, Michigan State University; \$500. Funds for travel to the American Academy of Forensic Science Annual Meeting.

Research Assistantship (2016-2019), Department of Anthropology, Michigan State

travel to the American Academy of Forensic Science Annual Meeting.

University. Funds for tuition, fees, and stipend.

2017

2016

2016

- 2015 Scholarship Award, Forensic Science Foundation Inc. Scholarship Award Competition; \$125. Funds for registration fees for the 2016 American Academy of Forensic Science Annual Meeting.
- Travel Award, Anthropology and Middle Eastern Studies, Mississippi State University; \$300. Funds for travel to the American Association of Physical Anthropology Annual Meeting.
- Research Assistantship (2011-2013), Cobb Institute of Archaeology, Mississippi State University. Funds for tuition, fees, and stipend.
- Travel Award, Cross-College Research Grant, Mississippi State University; \$600. Funds for travel to the 2014 American Academy of Forensic Science Annual Meeting.
- Travel Award, Anthropology and Middle Eastern Studies, Mississippi State University; \$400. Funds for travel to the American Academy of Forensic Science Annual Meeting.
- Travel Award, Cobb Institute of Archaeology. Funds for travel and housing during Mitrou Archaeological Project, Tragana, Greece.
- International Education Fee Scholarship (IEFS), Texas State University; \$750. Funds for travel with study abroad program to Belize

### **Grants Received**

2013 Research Grant, Forensic Science Foundation Inc. Lucas Grant, Co-Principal Investigator with Monica M. Warner and Dr. Nicholas P. Herrmann, entitled Refining Hydrogen and Oxygen Isoscapes and Trace Elements for the Identification of Human Remains in Mississippi, \$3000

#### **Publications**

- In Press Amber M. Plemons, Kelly R. Kamnikar, Alexis Goots, Jack Biggs
  Landmark And Measurement-based Data Assistant (LAMbDA): A pedagogical tool for
  cranial landmark data collection. Journal of Forensic Anthropology.
- Kelly R. Kamnikar, Amber M. Plemons, Micayla C. Spiros, Joseph T. Hefner. Estimación de la ancestría utilizando características morfológicas. In: Quinto-Sánchez M, Gomez-Valdés J, eds. Avances en Antropología Forense. Mexico City: Universidad Nacional Autónoma de México.
- Jack Biggs, Jeff Burnett, Rhian Dunn, Emily Milton, and Amber M. Plemons Campus Archaeology Program at Michigan State University: Reevaluating our program during a pandemic. SAA Archaeological Record.
- Micayla C. Spiros, Amber M. Plemons, Jack Biggs.

  Digital Pedagogy, Access, and Ethical Considerations in Biological anthropology. Special issue in Science & Justice.
- 2020 Rhian R. Dunn, Micayla C. Spiros, Kelly R. Kamnikar, Amber M. Plemons, Joseph T. Hefner. Ancestry Estimation in Forensic Anthropology: A Review. Wiley Interdisciplinary Reviews: Forensic Science. DOI: 10.1002/wfs2.1369
- 2018 Kelly R. Kamnikar, Nicholas P. Herrmann, Amber M. Plemons
  New approaches to juvenile age estimation in forensics: Application of transition analysis via
  the Shackelford et al method to a diverse modern subadult sample. Human Biology Journal.
- 2017 Kelly R. Kamnikar, Amber M. Plemons, Joseph T. Hefner
  Intraobserver Error in Macromorphoscopic Trait Analysis. Journal of Forensic Sciences.
  DOI:10.1111/1556-4029.13564
- Monica M. Warner, Amber M. Plemons, Nicholas P. Herrmann, Laura A. Regan Refining Oxygen ( $\delta^{18}$ O) and Hydrogen ( $\delta^{2}$ H) Isoscapes for the Identification of Human Remains in Mississippi for the *Journal of Forensic Sciences*.
- Amber M. Plemons and Joseph T. Hefner
  Ancestry Estimation using Macromorphoscopic Traits for *Academic Forensic Pathology*.
- Nicholas P. Herrmann, Amber M. Plemons, Edward Harris

Estimating Ancestry of Fragmentary Remains Via Multiple Classifier Systems: A Study of the Mississippi State Asylum Skeletal Assemblage. In MA Pilloud and JT Hefner (eds): *Biological Distance Analysis Forensic and Bioarchaeological Perspectives*, Ch.15. Elsevier Press, New York.

### **Professional Conferences**

- 2020 Kelly R. Kamnikar, Amber M. Plemons, Nicholas P. Herrmann, Jennifer E. Spence, Yann Heuzé, Joseph T. Hefner
  - A Comparison of Two Dental Age Estimation Methods Using Transition Analysis (TA). Poster present at the American Academy of Forensic Sciences, Anaheim, CA.
- 2020 Joseph T. Hefner, Amber M. Plemons
  - A Geometric Morphometric Approach to Quantify the Impact of Admixture on Craniofacial Form, Anaheim, CA.
- Nicholas P. Herrmann, Amber M. Plemons, Grant L. Harley, Molly K. Zuckerman, Willa R. Trask.
  - Data Integration of the Mississippi State Asylum Burial Sample and Archival Records. Poster presented at the Southeastern Archaeological Conference, Jackson, MS.
- Ashley C. Dafoe, Molly K. Zuckerman, Nicholas P. Herrmann, Amber M. Plemons, Brittany N. Higgs.
  - Proximate and Ultimate Causes of Rising NCD Mortality in the Mississippi State Asylum (1855-1935). Poster presented at the American Association of Physical Anthropologists Annual Meeting, Cleveland, OH. Published Abstract.
- Kelly R. Kamnikar, Nicholas P. Herrmann, Amber M. Plemons
  New approaches to juvenile age estimation in forensics: Application of transition analysis via
  the Shackelford et al method to a diverse modern subadult sample. Poster presented at the
  American Association of Physical Anthropologists Annual Meeting, Austin, TX. Published
  Abstract.
- Amber M. Plemons, Joseph T. Hefner, Kelly R. Kamnikar
  Refining Asian Ancestry Classifications via Cranial Macromorphoscopic Traits. Poster
  presented at the American Association of Physical Anthropologists Annual Meeting, Austin,
  TX. Published Abstract.
- 2018 Kelly R. Kamnikar\*, Amber M. Plemons\*, Alexis Goots
  Landmark And Measurement-Based Data Assistant (Lambda): A Pedagogical Tool For
  Cranial Landmark Data Collection Introduction. Paper presented at the American Academy
  of Forensic Sciences Annual Meeting, Seattle, WA. Published Abstract. \*Presenting author.
- Nicholas P. Herrmann, Michelle L. Davenport, Amber M. Plemons, Grant L. Harley, Audrey D. Shaefer, Molly K. Zuckerman
   Historical Bioarchaeology and DVI: Data Integration of the Mississippi State Asylum Burial.
   Poster presented at the American Association of Physical Anthropologists Annual Meeting, New Orleans, LA. Published Abstract.
- Amber M. Plemons, Michelle Davenport, Nicholas P. Herrmann
  Historic and Skeletal Mortality for the Mississippi State Asylum. Poster submitted to the
  American Association of Physical Anthropologists Annual Meeting, New Orleans, LA.
  Published Abstract.
- Monica M. Warner, Amber M. Plemons\*, Nicholas P. Herrmann
  Assigning Region of Origin in the Southeastern United States Using Stable Oxygen Isotopes
  of Modern Human Enamel. Paper presented at the 69<sup>th</sup> American Academy of Forensic
  Sciences Annual Meeting, New Orleans, LA. Published Abstract. \*Presenting author.
- Joseph T. Hefner and Amber M. Plemons
  Introducing the Macromorphoscopic Databank: A data collection and analytical tool for the analysis of macromorphoscopic trait data. Paper presented at the 69<sup>th</sup> American Academy of

- Forensic Sciences Annual Meeting, New Orleans, LA. Published Abstract.
- Amber M. Plemons, Nicholas P. Herrmann, Edward Harris
  A Multiple Classifier System Approach to Determining Ancestry: A Preliminary Study.
  Paper presented at the 68<sup>th</sup> American Academy of Forensic Sciences Annual Meeting, Las Vegas, NV. Published Abstract.
- Monica M. Warner, Amber M. Plemons, Nicholas P. Herrmann Refining Hydrogen and Oxygen Isoscapes for the Identification of Human Remains in Mississippi. Paper presented at the 67<sup>th</sup> American Academy of Forensic Sciences Annual Meeting, Orlando, FL. Published Abstract.
- Mark M. LeVaughn, MD, Amber M. Plemons, Nicholas P. Herrmann
  Gone and Forgotten: A Medical Examiner's Nightmare. Presenting author, paper presented at the 67<sup>th</sup> American Academy of Forensic Sciences Annual Meeting, Orlando, FL. Published Abstract.
- Amber M. Plemons and Nicholas P. Herrmann
  Porcine Taphonomic Database for the Mississippi State University Forensic Science
  Research Plot. Presenting author, paper presented at an invited session for the Annual
  Taphonomic Meeting at the 67<sup>th</sup> American Academy of Forensic Sciences Annual Meeting,
  Orlando, FL.
- Molly K. Zuckerman, Nicholas P. Herrmann, Amber M. Plemons, Michael Murphy, Derek T. Anderson
  Institutionalized lives, institutionalized bodies: preliminary data from excavations at the 'Mississippi State Lunatic Asylum' (1846-1935), Jackson, MS. Paper presented at the Society for American Archaeology, Austin, TX. Published Abstract.
- Derek T. Anderson, Ryan Young, Amber M. Plemons
  A Debitage Analysis of the Clovis and Early Archaic Components at the Topper Site. Poster presented at the Society for American Archaeology, Austin, TX. Published Abstract.
- Kelly R. Kamnikar, Amber M. Plemons, Nicholas P. Herrmann, Derek T. Anderson, Molly K. Zuckerman.
   Foransis methods applied in biographaeological contexts: The Gale Family Compters, Poster

Forensic methods applied in bioarchaeological contexts: The Gale Family Cemetery. Poster presented at the Society for American Archaeology, Austin, TX. Published Abstract.

- Molly K. Zuckerman, Nicholas P. Herrmann, Derek T. Anderson, Amber M. Plemons Making private lives in the past public in the present: preliminary results from investigations at the 'Mississippi State Lunatic Asylum.' Paper presented at the American Anthropological Association Annual Meeting, Chicago, IL. Published Abstract.
- Amber M. Plemons, Nicholas P. Herrmann, Derek T. Anderson, Molly K. Zuckerman Recent Bioarchaeological Investigations in Jackson, Mississippi: Issues and Observations. Presenting author, poster presented at the Mississippi Archaeological Association Annual Meeting, Tupelo, MS
- Amber M. Plemons, Nicholas P. Herrmann, Franklin E. Damann, Scott T. Willard An examination of postmortem interval relative to microbial biomass of soil at the MSU Forensic Science Research Plot. Presenting author, poster presented at the 65<sup>th</sup> American Academy of Forensic Sciences Annual Meeting, Washington D.C. Published Abstract.

# **Professional Service**

Forensic Anthropology [Journal]: Student Peer Reviewer
 American Journal of Physical Anthropology: Student Peer Reviewer
 Student Member, American Academy of Forensic Sciences Anthropology Section's Ad Hoc Committee for the Development of an Outstanding Mentorship Award
 Forensic Anthropology [Journal]: Student Peer Reviewer

# **Professional Workshops Hosted**

- Joseph T. Hefner, Amber M. Plemons, Kelly R. Kamnikar. *Macromorphoscopic (MMS) Traits: Data Collection and Analysis.* Workshop for students and professionals at Texas State University, San Marcos.
- Human Remains Course. Lecture, hands-on osteology laboratory, and full-scale excavation training course for Michigan State Police. Lansing, MI.
- Nicholas P. Herrmann, Kelly R. Kamnikar, Amber M. Plemons.

  Análisis transicional para la estimación de la edad biológica. Workshop presented in English and Spanish at the XIV Congress of the Asociación Latinoamericana de Antropología Forense in Santa Marta, Colombia.
- Joseph T. Hefner, Amber M. Plemons, Kelly R. Kamnikar *Macromorphoscopic (MMS) Traits: Data Collection and Analysis.* Workshop for students and professionals at the American Academy of Forensic Sciences Annual Meeting in Seattle, WA.
- Joseph T. Hefner, Amber M. Plemons, Kelly R. Kamnikar

  Data Collection in Ancestry Estimation. Workshop hosted for students and professionals at Khon Kaen University, Thailand teaching macromorphoscopic trait analysis and how to digitize crania.

# Professional Working Groups / Workshops Attended

- 2020 Anti-Racism and Equity Training, Society of Historical Archaeology.
- DNA-sequence data and phylogenies in biodiversity; Week-long workshop hosted by Physalia Course; Lodz, Poland.
- Periodontal Disease, Dental Anthropology Association, hosted by Simon Hillson. Learned the epidemiology and methods of recording periodontal disease.
- 2017 Michigan Mortuary Response Team: Disaster Victim Response Training. Learned the operations within each subdivisions of the response team and how to conduct recoveries.
- 2012-15 Mississippi State University Cross-College Forensic Working Group. Conduct decomposition research and attend progress meetings with various departments at Mississippi State University.
- 2013 *Perimortem Trauma Workshop*, Mountain, Swamp, and Beach Conference; Dr. Dawnie W. Steadman. Learned how to identify various types of perimortem trauma via reference samples provided by the William Bass Donated Collection.

### **Public Engagement and Invited Lectures**

- The Sci-Files-06/21/2020-Amber, Kelly, Micayla-Talking with Skeletons. Podcast. Michigan State University Student Radio Station.
- 2017 Forensic Anthropology: Methods of Identification via Michigan State University. Assisted in teaching high school students in a workshop on skeletal identification methods.
- 2016 Outdoor Human Remains Recovery via Forensic Anthropology Center, Texas State University. Assisted in training educators, medical examiners, and graduate students in skeletal death investigations and field recovery.
- 2016 Skeletal Death Investigation through Texas A&M Extension Service via Forensic Anthropology Center, Texas State University. Assisted in training law enforcement in skeletal death investigations and field recovery.
- Amber M. Plemons, J. Ryan Young, William Turner, and Stephanie Fuehr Forensic Anthropology: Methods of Identification and Determining Postmortem Interval.

  Invited lecture and workshop for the Mississippi Division of the International Association for Identification, Biloxi, Mississippi.
- Nicholas P. Herrmann, Amber M. Plemons, Kelly R. Kamnikar, and Monica M. Warner

*Human Versus Nonhuman*, Mississippi Coroner Training Workshop. Workshop to train coroners throughout Mississippi to distinguish between human and faunal remains. Assisted in organizing the workshop and oversaw the dental session.

Amber M. Plemons

Forensic Anthropology: Services Available through Mississippi State University. Invited lecture by the Mississippi Division of the International Association for Identification, Pearl, Mississippi.

#### **Certifications:**

2019 CITI Certification: Group 2 Social & Behavioral Research Investigators. September 19. 2019 CITI Certification: Social-Behavioral Educational Researchers. September 13.

# **Teaching Experience**

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2022	Instructor. Introduction to Cultural Anthropology (AN 1111), Online. Oakland University. Fall semester.
2022	Instructor. Evolution and Archaeology (AN 1511), Online. Oakland University. Spring semester.
2022	Graduate Teaching Assistant. Human Osteology (ANP 441), Michigan State University. Spring semester. Responsible for teaching weekly labs.
2021	Instructor. Introduction to Cultural Anthropology (AN 1111), Online. Oakland University. Fall semester.
2021	Instructor. Evolution and Archaeology (AN 1511), Online. Oakland University. Summer semester.
2020	Instructor. Introduction to Physical Anthropology (ANP 206), Online. Michigan State University. Summer semester.
2019	Instructor. Introduction to Physical Anthropology (ANP 206), Online. Michigan State University. Summer semester.

2019 Graduate Teaching Assistant. Introduction to Physical Anthropology (ANP 206), Michigan State University.

# **Instrument and Software Experience**

R Version 3.4.4

Microscribe G Digitizer

3Skull 2.0 (Digitizer software)

NextEngine Desktop 3D scanner: Model 2020i

Leica Total Station with TDS, running Survey Pro

JEOL JSM-6500F Field Emission Scanning Electron Microscope with X-EDS and WDS spectrometers and Oxford Instruments INCAEnergy+ software

Carl Zeiss EVO50VP Variable Pressure Scanning Electron Microscope

Avizo, 3D Visualization and Analysis Software

**ArcGIS** 

Osteoware 2.4

FORDISC 3.0

ADBOU 2.1

Macromorphoscopic Traits (MMS) 3.1

GitHub

Wordpress

Mapbox

Agisoft Metashape, Photogrammetry Software

References

Associate Professor, Michigan State University Professor, Texas State University Assistant Professor, Michigan State University Dr. Joseph Hefner Dr. Nicholas Herrmann

Dr. Stacey Camp

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