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## **EDUCATION**

- 2016 Ph.D. in Anthropology, Michigan State University  
Dissertation: *Investigations of Micro- and Macroscopic Dental Defects in Pre-Hispanic Maya Cave and Rockshelter Burials in Central Belize*
- 2009 M.A. in Anthropology, Michigan State University
- 2006 B.A. in Anthropology, University of Iowa

## **RESEARCH INTERESTS**

Bioarchaeology, forensic anthropology, Maya archaeology, taphonomy, histology, dental anthropology, identification of transgender and gender variant decedents, public archaeology, archaeology of gender, human variation, growth and development, paleopathology, effects of drugs and alcohol on skeletal microstructure, cold cases, intersections of biological anthropology and social justice

## **RESEARCH SKILLS AND TRAINING**

Mentorship and advising undergraduate and graduate students, NAGPRA repatriation, community outreach and public archaeology, curricular development, transmitted light microscopy, histology, forensic archaeology, Fordisc, SPSS, OsteoWare, rASUDAS, ImageJ

## **ACADEMIC EMPLOYMENT**

- 2018-present Lecturer in Anthropology, University of New Hampshire
- 2017-present Research Affiliate for Center for Archaeology, Materials, and Applied Spectroscopy (CAMAS), Idaho State University
- 2017-2018 Visiting Assistant Professor of Anthropology, Idaho State University
- 2017 Visiting Assistant Professor of Anthropology, Albion College
- 2016-present Instructor of Anthropology, Lansing Community College
- 2016-2017 Adjunct Instructor of Anthropology, Michigan State University
- 2007-2016 Instructor and teaching assistant, Michigan State University
- 2013-2015 Peer Writing Group Facilitator for graduate students, MSU Graduate School
- 2012 Forensic Anthropology Study Abroad (London), Assistant, MSU
- 2008-2016 Capstone in Human Biology, Assistant, MSU
- 2008 Anatomy Seminar Lecturer, Department of Anatomy, MSU
- 2007 Forensic Anthropology Laboratory Assistant, MSU
- 2007 Directed Study Group Leader, Anatomy Department, MSU
- 2007 Forensic casework assistant (skull-photo superimposition), Criminal Justice, MSU

## TEACHING EXPERIENCE

### **University of New Hampshire** (2018 – present)

- The Human Story: Evolution, Fossils, and DNA
- Forensic Anthropology
- Human Osteology
- Bioarchaeology of Women and Children
- Cold Cases in Forensic Anthropology
- Ethical, Professional, and Legal Issues in Forensic Anthropology (Justice Studies course)

### **Idaho State University** (2017 – 2018)

- Archaeology of Death and Burial
- Women and Children in Prehistory
- Paleopathology and Ancient Disease
- Bioarchaeology
- Forensic Anthropology
- General Anthropology (online and classroom)
- Ancient Mesoamerica and the Maya (online and classroom)
- Positive Identification and Trauma Analysis (online)
- Analysis of Burned Bone (online)

### **Albion College** (2017)

- Bioarchaeology and Forensic Anthropology
- Introduction to Anthropology

### **Lansing Community College** (2016 – present)

- Cultural Anthropology (online)
- Introduction to Physical Anthropology and Archaeology (online and face to face)

### **Michigan State University** (2006 – 2017)

- Human Adaptability (Adjunct Instructor)
- Introduction to Physical Anthropology (Adjunct Instructor)
- Time, Space, and Change in Human Society (Teaching Assistant/Instructor of Record; online)
- Biocultural Evolution (Teaching Assistant)
- Introduction to Archaeology (Teaching Assistant)
- Human Osteology (Teaching Assistant)

## PUBLICATIONS

- 2020 O’Gorman JA, Bengtson JD, **Michael AR**. Ancient history and new beginnings: necrogeography and migration in the North American midcontinent. *World Archaeology* 1-19.  
<https://doi.org/10.1080/00438243.2019.1736138>
- 2020 Blatt SH, Petersen K, **Michael AR**. Estimating age of mature adults from degeneration of the medial end of the clavicle in an African American sample. *Forensic Anthropology* 3(1):39-49.
- 2018 **Michael AR**, Wrobel GD, Biggs JA. Understanding Late Classic Maya mortuary ritual in caves: dental evidence of health from macro- and microscopic defects and caries. In: Bioarchaeology of

Pre-Columbian Mesoamerica, edited by Willermet C, Cucina A. Gainesville: University of Florida Press.

- 2018 **Michael AR**. Histological estimation of age at death in amputated lower limbs: Issues of disuse, advanced age, and disease in the analysis of pathological bone. *Journal of Forensic and Legal Medicine* 53:58-61.
- 2017 Wrobel GD, Morton SG, **Michael AR**, Biggs JA, Andres C. The current state of research on ancient Maya rockshelter use in Central Belize. *Research Reports in Belizean Archaeology* 14:311-319.
- 2017 Wrobel GD, **Michael AR**, Biggs JA, Helmke C, Morton SG, Andres C. Maya mortuary landscapes, Central Belize. *Antiquity* 91(358):e5.
- 2017 Wrobel GD, Friewald C, **Michael AR**, et al. Social identity and geographic origin of Maya burials at Actun Uayazba Kab, Roaring Creek Valley, Belize. *Journal of Anthropological Archaeology* 45:98-114.
- 2016 **Michael AR**. Histological analysis of dentition in rockshelter burials from two sites in Central Belize. *Dental Anthropology Journal* 29:32-40.
- 2016 **Michael AR**, Bengtson JD. Chronic alcoholism and bone remodeling processes: caveats and considerations for the forensic anthropologist. *Journal of Forensic and Legal Medicine* 38:87-92.
- 2015 Morton SG, Wrobel GD, Andres C, Helmke C, and **Michael AR**. The first five years of the Central Belize Archaeological Survey – political and economic development. *Research Reports in Belizean Archaeology* 149-159.
- 2013 **Michael AR**. Book review of The Bioarchaeology of the Human Head. Bonogofsky M, CS Larsen (eds.). *Homo – Journal of Comparative Biology* 64(4):326-328.
- 2012 Sauer NJ, **Michael AR**, Fenton TW. Human identification using skull-photo superimposition and forensic image comparison. In: A Companion to Forensic Anthropology. Dirkmaat DC (ed). Blackwell Publishing, Ltd.
- 2012 Wrobel GD, Andres CR, Morton SG, Shelton R, **Michael AR**, Helmke C. Ritual landscapes of the Caves Branch River Valley. *Research Reports in Belizean Archaeology* 9:233-244.

### **PUBLICATIONS UNDER REVIEW**

Blatt SH, **Michael AR**. Bridging the gap: sella turcica bridging as a potential positive identification factor. Accepted in *International Journal of Radiology and Imaging Technology*.

### **TECHNICAL REPORTS**

- 2017 Biggs JA, **Michael AR**. Ongoing excavations at Caves Branch Rockshelter: a report of the 2015 field season. *The Central Belize Archaeological Project: A Report of the 2015 Field Season*. Belize Archaeological Research and Education Foundation Occasional Report #5. pp. 46-48.

- 2016 Bright L, **Michael AR**. West Circle Privy report for Michigan State University Campus Archaeology Program. Technical report submitted to the Campus Archaeology Program (published online).
- 2015 **Michael AR**, Burbank J. Preliminary excavation and mapping at Wishing Well Cave. *The Central Belize Archaeological Project: A Report of the 2013 Field Season*. Belize Archaeological Research and Education Foundation Occasional Report #4. pp. 46-48.
- 2015 Shelton R, **Michael AR**, Forton M, Burbank J. Cultural assemblages in the front and middle chambers of Actun Kabul. *The Central Belize Archaeological Project: A Report of the 2013 Field Season*. Belize Archaeological Research and Education Foundation Occasional Report #4. pp. 14-33.
- 2014 Deskaj S, Burbank J, **Michael AR**. Summary of Tumulus Excavations, PASH, 2014. Technical report submitted to the University of Tirana, Albania.
- 2013 **Michael AR**, Burbank JA. Excavations at Sapodilla Rockshelter, Caves Branch River Valley. *The Central Belize Archaeological Project: A Report of the 2011 Field Season*. Belize Archaeological Research and Education Foundation Occasional Report #3. pp. 20-37.

### **PROFESSIONAL PRESENTATIONS**

- 2020 Poster at the Society for American Archaeology meetings, Austin, TX  
*Buried in the Maw of Xibalba: The Bioarchaeology of the Sac Uitzil Ba Maya Rockshelter in Central Belize* (2<sup>nd</sup> author)  
\*abstract published, but conference canceled due to COVID-19
- 2020 Poster at the Society for American Archaeology meetings, Austin, TX  
*Dark Matters of the Dark Market: Curation, Authentication, and Repatriation of Two Mid-Century Shrunken Heads* (3<sup>rd</sup> author)  
\*abstract published, but conference canceled due to COVID-19
- 2020 Poster at the Society for American Archaeology meetings, Austin, TX  
*Toward Repatriation and the Creation of an Object Biography: A Multi-factorial Analysis of a Human Finger Bone "Necklace"* (2<sup>nd</sup> author)  
\*abstract published, but conference canceled due to COVID-19
- 2020 Poster at the Society for American Archaeology meetings, Austin, TX  
*Evaluating the Theoretical and Methodological Bases for Taphonomic Alterations in Biominerals* (5<sup>th</sup> author)  
\*abstract published, but conference canceled due to COVID-19
- 2020 Poster at the American Academy of Forensic Sciences meetings, Anaheim, CA  
*Collaborative Approaches in the Identification of Transgender and Gender Variant Decedents* (1<sup>st</sup> author)
- 2019 Poster at the American Schools of Oriental Research meetings, San Diego, CA  
*Preserving the Past for a More Ethical Future: Photogrammetry and Re-Analysis of a Bioarchaeological Sample from Çadır Höyük in Central Turkey* (2<sup>nd</sup> author)
- 2019 Poster at the Society for American Archaeology meetings, Albuquerque, NM

*Altered States: Evaluating Postmortem Modification of Dental Tissues* (2<sup>nd</sup> author)

2019 Poster at the Society for American Archaeology meetings, Albuquerque, NM  
*Understanding the Diet of Late to Terminal Classic Period Maya Groups in the Sibun River Valley, Belize, Through Food Web Reconstruction* (3<sup>rd</sup> author)

2019 Poster at Idaho State University Graduate Research Symposium, Pocatello, ID  
*Multi-component Forensic Analyses of Curated Shrunken Heads* (4<sup>th</sup> author)

2018 Paper at the Northwest Association of Forensic Scientists meetings, Boise, ID  
*Forensic Anthropology Casework, Research, and Service at Idaho State University* (1<sup>st</sup> author)

2018 Paper at the Society for American Archaeology meetings, Washington DC  
*Mortuary Analysis and Bioarchaeology: A Survey of Integrative Approaches* (2<sup>nd</sup> author)

2017 Paper at the American Anthropological Association meetings, Washington DC  
*Interpretations of Long-Term Social Memory and Fluctuating Negotiation of Mortuary Space at a Traditionally Understudied Pre-Hispanic Maya Site Type in Central Belize* (2<sup>nd</sup> author)

2017 Paper at the Society for American Archaeology meetings, Vancouver, British Columbia  
*Life During Wartime: Children, Violence, and Security at Morton Village* (3<sup>rd</sup> author)

2017 Paper at the Midwest Conference on Mesoamerican Archaeology and Ethnohistory, Detroit, MI  
*Congenital Anomalies as Evidence of Biological Affinity Among Maya Burials in Caves and Rockshelters in Central Belize* (2<sup>nd</sup> author)

2017 Paper at Michigan State University Anthropology Graduate Student Association meetings, East Lansing, MI  
*Past and Future Excavations at Sapodilla Rockshelter, Central Belize: Exploring Evidence for Biological Affinity Through Foot Pathologies* (2<sup>nd</sup> author)

2016 Paper at the Midwest Historical Archaeology Conference, Detroit, MI  
*The Michigan State University Campus Archaeology Program's Approach to Understanding Gender and Restricted Use of Space on the Historic Campus* (1<sup>st</sup> author)

2016 Paper at the Michigan State University Graduate Students in Anthropology Symposium, East Lansing, MI  
*Re-Appraisals and New Excavations at Caves Branch Rockshelter in Central Belize* (2<sup>nd</sup> author)

2015 Poster at the Midwest Archaeological Conference, Milwaukee, WI  
*More Than Just Nightsoil: Preliminary Findings from Michigan State University's First Privy* (3<sup>rd</sup> author)

2015 Paper at the 13<sup>th</sup> Belize Archaeology and Anthropology Symposium, San Ignacio, Belize  
*The Central Belize Archaeological Survey Project: Update 2015* (4<sup>th</sup> author)

2015 Paper at the Cultural Landscapes and Heritage Values Conference, University of Massachusetts-Amherst, MA  
*Predicting Gendered Space on the Historic Campus at Michigan State University* (1<sup>st</sup> author)

- 2015 Paper at the Cultural Landscapes and Heritage Values Conference, University of Massachusetts-Amherst, MA  
*How the Michigan State University Campus Archaeology Program Has Examined Sustainability Through Time* (3<sup>rd</sup> author)
- 2014 Paper at the 12<sup>th</sup> Belize Archaeology and Anthropology Symposium, San Ignacio, Belize  
*Interpreting the Mortuary Use of Actun Kabul, Roaring Creek, Belize* (2<sup>nd</sup> author)
- 2014 Paper at the Society for American Archaeology Meetings, Austin, TX  
*Exploring the Relationship Between Sampling Loci and Developmental Age in Isotopic Studies of Human Teeth: A Pilot Study from Kamenica, Albania* (1<sup>st</sup> author)
- 2014 Paper at the Society for American Archaeology Meetings, Austin, TX  
*Interpreting a Specialized Cache of Human Remains in Actun Kabul, Central Belize* (2<sup>nd</sup> author)
- 2013 Paper at the American Anthropological Association Meetings, Chicago, IL  
*The Anthropological Significance of Cave Burial: A Comparative Approach* (2<sup>nd</sup> author)
- 2013 Paper at the Chacmool Conference, Calgary, Alberta, Canada  
*An Analysis of Dental Defects in Cave and Rockshelter Populations, Central Belize* (2<sup>nd</sup> author)
- 2012 Paper at the Society for American Archaeology Meetings, Memphis, TN  
*Mortuary Patterns and Use of Burial Space at Sapodilla Rockshelter, Belize* (1<sup>st</sup> author)
- 2012 Poster at the Paleopathology Association Meetings, Portland, OR  
*Patterns of Childhood Stress in Rockshelter Burials Caves Branch River Valley* (3<sup>rd</sup> author)
- 2012 Poster at the Michigan State Graduate Academic Conference, East Lansing, MI  
*“Green from the Beginning”: Documenting Sustainability Practices Through Time at Michigan State University* (2<sup>nd</sup> author)
- 2012 Paper at the Midwest Mesoamerican Meetings, East Lansing, MI  
*Identifying Mortuary Patterns and Use of Space at the Sapodilla Rockshelter, Caves Branch River Valley, Belize: A Report of the 2010-2011 Excavations* (1<sup>st</sup> author)
- 2011 Paper at the 9<sup>th</sup> Belize Archaeology and Anthropology Symposium, San Ignacio  
*Ritual Landscapes of the Caves Branch River Valley* (4<sup>th</sup> author)
- 2011 Poster at the American Academy of Forensic Sciences annual meetings, Chicago, IL  
*Taphonomy of a Mass Grave in Mid-Michigan* (3<sup>rd</sup> author)
- 2011 Paper at Society for American Archaeology annual meetings, Sacramento, CA  
*A Dental Histological Analysis of Individuals Interred in a Variety of Cave and Rockshelter Contexts in the Caves Branch River Valley* (1<sup>st</sup> author)
- 2010 Poster at the American Association of Physical Anthropologists annual meetings, Albuquerque, NM  
*Effects of Disuse and Diabetes on Histological Age of Lower Limb Amputees* (1<sup>st</sup> author)
- 2010 Poster at the American Academy of Forensic Sciences annual meetings, Seattle, WA

*A Preliminary Study of the Timing of Specific Characteristics of Copper and Iron Discoloration on Bone* (2<sup>nd</sup> author)

2009 Poster at the Midwest Archaeological Conference annual meetings, Iowa City, IA  
*Construction, Use, and Destruction of Structures at the Morton Village Site* (3<sup>rd</sup> author)

2009 Poster at the American Association of Physical Anthropologists annual meetings, Chicago, IL  
*A Unique Commingled Burial at the Norris Farms 36 Cemetery: Revisiting the “Revered Ancestor” Hypothesis* (1<sup>st</sup> author)

2008 Poster at the Midwest Bioarchaeology and Forensic Anthropology Association annual meetings, Allendale, MI  
*Alcoholism and the Skeleton: A Case Study Comparing Age-at-Death Estimations in Pathological Skeletal Remains* (1<sup>st</sup> author)

2008 Presentation at the American Academy of Forensic Sciences annual meetings, Washington DC  
*Osteon Area Measurements: A Validation Study* (2<sup>nd</sup> author)

2008 Presentation at the American Academy of Forensic Sciences annual meetings, Washington DC  
*Osteon Area and Circularity: A New Method for the Assessment of Human and Non-Human Fragmentary Remains* (2<sup>nd</sup> author)

2007 Poster at the American Association of Physical Anthropologists annual meetings, Philadelphia, PA  
*Differential Diagnosis of Facial Pathology in Dolní Věstonice 3: Bio-Behavior in the Gravettian of Central Europe* (1<sup>st</sup> author)

2005 Poster at the American Association of Physical Anthropologists annual meetings, Milwaukee, WI  
*Variation in Mandibular Gonial Flare in Neandertals and Recent Humans: A Pattern Recognition Study* (4<sup>th</sup> author)

## **GRANTS, AWARDS, AND HONORS**

- 2020 Team finalist for DNA Hit of the Year (Gordon Thomas Honeywell Government Affairs for Joseph Henry Loveless identification case)
- 2019 Forensic Science Foundation Field Grant for project titled, “Applying Model-Based Approaches for Investigating Histological and Diagenetic Alteration of Dental Tissue in the Burial Environment” (\$1495)
- 2019 Center for the Humanities and Dean’s Office Gift Award for project titled, “The Use of Forensic Genealogy in Resolution of Long-Term Unsolved Homicide Cases: A Discussion Panel and Social Engagement Project, University of New Hampshire (\$3000)
- 2019 Hostile Terrain 94 installment grant, University of New Hampshire Center for the Humanities (\$3000)
- 2019 Center for the Humanities grant for forensic facial approximation, University of New Hampshire (\$800)
- 2019 History of Science grant for purchase of materials for Human Osteology course, University of New Hampshire (\$2160)
- 2019 “Model-Based Approaches in Odonto-Histo-Taphonomy for Forensic and Bioarchaeological Applications,” co-PI, Idaho State University (\$4413.93)
- 2018 Developing Collaborative Partnerships for Building Research and Scholarship grant, “The Human Identity Project” with a focus on histology, co-PI, Idaho State University

(\$23,507)

2016	Graduate Office Fellowship award for rib histology project, MSU (\$2400)
2016	Dahlberg Award for best student paper, Dental Anthropology Association (\$100)
2016	MSU Graduate Students in Anthropology Outstanding Peer Award
2015	Broad Art Museum, Writing Residency Fellowship, MSU (\$1000)
2012	Gender, Justice, and Environmental Change Dissertation Research Fellowship (\$9600)
2012	Caves Research Foundation, Graduate Research Grant for dissertation research (\$1700)
2012	Tinker Field Research Grant, Center of Latin American and Caribbean Studies (\$1500)
2012	Kenneth E. and Marie J. Corey Research Enhancement Award, MSU (\$200)
2012	Graduate Office Fellowship stipend for archaeological research, MSU (\$1750)
2011-2017	Campus Archaeology, Graduate Research Fellowship, MSU (\$3500/semester)
2011	Pre-dissertation Fieldwork Award, MSU (\$1000)
2010	Research Enhancement Award, Graduate School at MSU (\$500)
2010	Anthropology Department Advanced Field Training Award, MSU (\$700)
2010	Graduate Academic Conference at MSU, first place award for poster presentation (\$300)
2009	Graduate Office Fellowship for academic honors, MSU (\$3000)
2009	American Indian Studies Program travel grant for research, MSU (\$500)
2008	Graduate School & Forensic Science program joint award for thesis research (\$1500)
2007	Medical Gross Anatomy course grant, MSU (\$2000)
2007	Research Enhancement Grant, MSU (\$1000)
2005	Undergraduate Honors Program research grant, University of Iowa (\$500)
2004-2006	President's List for Highest Honors GPA, University of Iowa
2004-2006	Partial tuition scholarship (grade-based), University of Iowa (\$2000/semester)

## **FELLOWSHIPS, INTERNSHIPS, AND LABORATORY EXPERIENCE**

Director of the Forensic Anthropology Laboratory, Idaho State University (2017 – 2018)

- Documentation, processing, and identification in forensic cases; search and recovery; law enforcement collaboration

Broad Art Museum Writing Residency Fellowship, Michigan State University, MSU (2015)

- Development of project regarding gendered landscapes on the historic campus using themes of spatial theory, technological impacts on space, and mapping and mediation of public/private spheres

Maya Bioarchaeology Laboratory, MSU (2011-2016)

- Maintenance of large human skeletal collection; project mentor for undergraduate student researchers

Graduate Research Fellowship with Campus Archaeology Program, MSU (2011-2017)

- Researching the sustainability practices of MSU's historical campus through the analysis of archaeological data and archival documents

Internship with Central Identification Laboratory at the Joint POW-MIA Accounting Command (JPAC) in Honolulu, HI (2007)

- Geomorphometric analysis of intact human crania utilizing MicroScribe; validation studies involving the histological analysis of human vs. non-human remains with regard to osteon area and osteon size and shape

Internship in Forensic Pathology at Sparrow Hospital Morgue in Lansing, MI (2007)



- Assistance with autopsies and comparative medical and dental radiography

Graduate assistant in the Forensic Anthropology Laboratory, MSU (2007-2012)

- Assistance with forensic casework, including specializing in bone histology and skull-photo superimposition

Undergraduate Scholar Assistantship with the Iowa Office of the State Archaeologist (2005)

- Identification of human skeletal remains and documentation of burial mound sites throughout the state using historical notes and maps

Assistant in the Paleoanthropology Laboratory, University of Iowa (2004-2006)

- Measurement of mandibular samples for project investigating gonial angle in Neandertals

Undergraduate Scholar Assistantship with the University of Iowa Zooarchaeology Laboratory (2004)

- Documentation of faunal osteological remains from a Roman-era military campsite in Nijmegen, Holland

### **ARCHAEOLOGICAL FIELDWORK**

Field crew supervisor for New Hampshire State Conservation and Rescue Archaeology Program and Great Bay Archaeological Society (2019)

- Archaeological survey and excavations of 17<sup>th</sup> century historic sites in Durham, NH

Field crew supervisor and excavation director for Central Belize Archaeological Survey (through Michigan State University, 2011 - present)

- Excavation of human remains in prehistoric Maya caves and rockshelters; field laboratory management; excavation research design

Research fellow for Campus Archaeology Program (Michigan State University, 2011 – 2017)

- Identification of culturally sensitive areas on campus; excavation and mitigation of cultural resources; corroboration of archival documents with archaeological materials

Field crew member for Projekti Arkeologjikë i Shkodrës, Albania (Mississippi State University, 2014)

- Excavation of Bronze Age tumulus and identification of human remains

Field crew member for excavation at Morton Village, Illinois (through Michigan State University and Dickson Mounds Museum, 2009 – 2010)

- Excavation of prehistoric Native American settlement site; identification and documentation of artifacts

### **ADVISOR AND MENTORSHIP EXPERIENCE**

2020 Undergraduate senior thesis co-advisor for NAGPRA project focused on analysis and repatriation of human hand and foot bone artifact (University of New Hampshire, BA degree)

2019 Undergraduate Research Symposium co-organizer for nine students doing bioarchaeological research on human remains from site of Caesarea Maritima (University of New Hampshire)

- “Biological Profiles of the Caesarea Maritima Individuals Curated at UNH”
- “Caesarea Maritima: Facial Approximation”

- “Restorative Justice in Bioarchaeology: Reflections on Teaching With, Learning From, and Handling Human Remains”
  - “Examination of Juvenile Human Remains in the Late Chalcolithic Period at Çadır Höyük”
  - “Strontium Isotope Analysis in the Caesarea Maritima Burials”
  - History of Caesarea Maritima: An Exploration of Regional History with an Emphasis on the Cultural World”
  - “Trauma, Taphonomy, and Pathology Analysis of the Burials from Caesarea Maritima”
- 2019 Undergraduate research advisor for strontium isotope project focused on human remains from Caesarea Maritima (Funded with internal grants - \$2100; University of New Hampshire)
- 2019 Undergraduate senior thesis advisor for bioarchaeological analysis of infant remains from Cadir Hoyuk, present day Turkey (University of New Hampshire, BA degree)
- 2018 Graduate thesis advisor for project focused on effects of opioid abuse on age at death estimation (University of New England, MPH degree)
- 2018 TRIO McNair research fellowship mentor for student compiling information on law enforcement strategies in dealing with human remains identification and recovery (Idaho State University, BA degree)
- 2017 Graduate thesis advisor for project analyzing two shrunken heads using DNA, osteological analysis, isotope analysis, and 3-D visualization (Idaho State University, MA degree)
- 2017 Graduate thesis advisor for project analyzing Western Idaho forensic population using non-metric and Fordisc methods (Idaho State University, MA degree)
- 2017 Mentor for undergraduate student project on skeletal histomorphology and age-at-death (Michigan State University, BA degree)
- 2015 Mentor for undergraduates working in Maya Bioarchaeology Lab on bone histology project
- 2014 Summer Research Opportunities Program mentor for undergraduate student project on age-at-death estimations using rib histology
- 2013 Mentor for undergraduate student project identifying and scoring dental pathologies in ancient Maya mortuary samples, presented at 2013 Chacmool conference, Calgary

### **SYMPOSIUM AND JOURNAL ORGANIZATION**

2020 Co-organizer for Bioarchaeology jobs forum, Society for American Archaeology, Austin, TX, April 22-26, 2019

\*abstract published, but conference canceled due to COVID-19

2018-20 Co-editor for *Spectrum*, the undergraduate journal published by the University of New Hampshire Anthropology Department, 2018-2020

2018 Organizer for teaching symposium, Northwest Association of Forensic Scientists, Boise, ID, September 18-21, 2018

*Histological Methods in Forensic Anthropology: Accurate Age at Death Estimation, Identification of Human vs. Non-Human Bone, and Taphonomic Alteration of Bone from Various Environments*

2017 Co-chair and symposium organizer, American Anthropological Association meetings, Washington DC, November 29-December 3, 2017

*Bioarchaeology and the Biocultural Synthesis: Current Perspectives and Applications*

2015 Organizer and lecturer for 8-hour workshop on human bone and dental histology, Mississippi State University, April 1, 2015

*Histology in Anthropology: Introduction and Practical Uses in Bioarchaeology and Forensic Research*

2014 Co-chair and symposium organizer, Society for American Archaeology meetings, Austin, TX, April 23-27, 2014

*The Link Between Mortuary Analysis and Advances in Scientific Methods: Developing Cultural Context*

**ACADEMIC SERVICE**

2020 Graduate Women in Science; reviewer for grant applications

2019 *Advances in Archaeological Practice*; referee for manuscript review

2019 *Journal of Forensic and Legal Medicine*; referee for manuscript review

**PUBLIC OUTREACH**

2020 Anthropology consultant for The Fall Line podcast for Glynn County Doe (GA, 1990), Richland County Jane Doe (SC, 1982), and Jenkins County Doe (GA, 1988)

2019 Anthropology consultant on life history analysis, dental metrics, and imaging for human remains recovered from Portsmouth African Burial Ground, Portsmouth, NH

2019 Invited lecture on missing and murdered indigenous women for Indigenous Peoples' Day, Durham, NH

2019 Invitation to speak on Kelly's Quest (Acton TV) to discuss forensic anthropology and the Trans Doe Task Force initiatives, Acton MA

2019 Invited lecture on sex estimation, histology methods, and search and recovery for New Hampshire Death Investigators yearly training, Concord, NH

2018 Invited lecture on forensic aspects of missing and murdered indigenous women epidemic, Native American Cultural Association, University of New Hampshire, Durham, NH

2018 Invited lecture on histology research for Boston University Forensic Science Society, MA

2018 Two mock burial excavation trainings for FBI, state crime laboratory experts, and local law enforcement, Pocatello, ID

2017 New Knowledge Adventures lecturer in forensic anthropology at Idaho State University (presentations to retiree groups)

2017 Presentations on forensic anthropology through Liberal Arts High program at Idaho State University (16 presentations to local high schools)

2011-17 Campus Archaeology Program outreach support at Michigan State University (presentations on historic artifacts to local schools)

**SOCIAL JUSTICE WORK**

2019-present Anthropology Consultant for Trans Doe Task Force (forensic genealogy organization focused on identifying transgender victims of cold cases)

2019 Organizer for book drive for New Hampshire Women's Prison (approx. 500 books donated), University of New Hampshire (co-organizers: UNH chapter of Chi Omega)

2019 Anthropology consultant for Trans Doe Task Force organization focused on solving cold cases involving transgender decedents

2018 Organizer for documentary screening and discussion panel for event focused on missing and murdered indigenous women and girls, Idaho State University

2017 Organizer for book drive for Michigan prisons (approx. 1000 books donated), Michigan

- State University (co-organizer: Graduate Students in Anthropology)
- 2016 Organizer for gently used bra collection for local homeless women, Lansing, Michigan
- 2016 Organizer for water drive to collect clean drinking water for Flint, Michigan residents  
(co-organizer: Graduate Students in Anthropology)

### **NAGPRA CASEWORK**

- 2019 Analysis of shell midden assemblage and identification of fragmented human remains; University of New Hampshire
- 2019 Analysis of human hand and foot bone “necklace” and identification of original curator with goal of repatriation; University of New Hampshire
- 2018 Cranial measurements and FORDISC analysis for 21 individuals in Idaho Museum of Natural History collections
- 2008 Osteological analysis for 100+ individuals recovered from construction project in Flint, MI (all individuals repatriated and reburied)

### **FORENSIC CASE WORK (ANALYSIS, SEARCH AND RECOVERY, TRAINING)**

- 2019 Biological profile and trauma analysis for human skull recovered from law office, New Hampshire Medical Examiner
- 2019 Analysis of suspected human remains in coyote scat for missing person case, Mono County, CA
- 2018 Excavation of basement for recovery of bones and analysis of rib fragment, Pocatello Police Dept., ID
- 2018 Re-analysis of human remains to understand commingling, Pocatello Police Dept., ID
- 2018 Search and recovery mission in missing person case in Leadore, ID, Lemhi County Sheriff
- 2018 Archaeological screening and excavation of cemetery back dirt pile to find human remains, Soda Springs Police Dept., ID
- 2018 Grave exhumation and biological profile for individual buried in 1981, Pocatello Police Dept., ID
- 2018 Ancestry, stature, age, and sex estimation for isolated femur, Soda Springs Police Dept., ID
- 2018 Ancestry estimation and histological analysis of dismembered unknown decedent, Peoria Police Dept., Peoria, IL
- 2018 Collaboration with Ada Co. Coroner’s Office to examine histological features of ribs from suspected opioid abusers, Boise, ID
- 2018 Analysis of dentition and morphology for exclusion of Lynette Culver in Jane Doe cold case, Pocatello Police Dept., ID
- 2018 Ancestry and sex estimation for Jane Doe cold case, Malad, ID, Pocatello Police Dept.
- 2018 Ancestry and sex estimation of isolated cranium, Bonneville Co. Sheriff’s Office, ID
- 2018 Re-analysis of skull and dental composite work in creation of biological profile, Pocatello, ID
- 2017 Search and recovery of human remains in suspected suicide, Fort Hall Reservation, ID (assisted FBI and tribal police)
- 2017 Ancestry estimation for isolated cranium, Idaho Museum of Natural History, Pocatello, ID
- 2017 Recovery and analysis of osteological material from outdoor trail scene, Pocatello, ID
- 2012 Grave exhumation and trauma analysis of human remains from a homicide cold case, Newaygo, MI
- 2012 Biological profile and trauma analysis of human remains recovered from an attic in a residential setting, Union City, MI
- 2012 Trauma analysis of calcified thyroid cartilage in decomposition case, Macomb County, MI
- 2011 Biological profile and trauma analysis of human remains recovered from a lake, Berrien County

- Sherriff's Office, MI
- 2010 Positive identification of decomposed human remains using comparative medical radiography, Sparrow Hospital, Lansing, MI
- 2010 Trauma analysis in juvenile abuse case, Sparrow Hospital, Lansing, MI
- 2009 Human/non-human identification of skeletal materials found in ceiling of house, Plainwell, MI
- 2009 Mass grave excavation of faunal material in insurance investigation, Jackson, MI
- 2009 Trauma analysis and positive identification of unknown decedent, Hurley Medical Center, Flint, MI
- 2009 Histological analysis of femur in juvenile abuse case, Hurley Medical Center, Flint, MI
- 2009 Assistance with search and recovery mission with Kent County Metro Cold Case Team, MI
- 2009 Histological analysis of suspected human bone from search and recovery mission, Chippewa County Sheriff, MI
- 2009 Positive identification of decomposed human remains using comparative medical radiography, Flint, MI
- 2008 Osteological analysis and technical report of recovered Native American remains, Flint, MI
- 2008 Positive identification of burn victim using comparative medical radiography, Sparrow Hospital Morgue, Lansing, MI
- 2008 Histological analysis of suspected bone found in food, private case brought to Michigan State University Forensic Anthropology Laboratory
- 2007 Assistance with search and recovery mission in 1983 cold case homicide with Michigan State Police, Jackson, MI
- 2007 Analysis of isolated calvarium to determine biological profile, Lansing Police Department, MI
- 2007 Analysis of skeletal material to determine ancestry, Antrim County Sheriff's Office, MI
- 2007 Work with Federal Bureau of Investigation to set up mock burials and recovery of human remains in order to train Michigan agents
- 2007 Biological profile and positive identification of remains recovered in Sault Ste. Marie, MI
- 2006 Excavation of subadult remains, determination of biological profile, and trauma analysis, Portland, MI

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