

## Curriculum Vitae

**Melody D. Ratliff Wood, M.A.**

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EDUCATION

- University of Kansas**, Lawrence, KS In Progress  
 Doctor of Philosophy: Biological Anthropology  
 Emphasis: Anthropological Genetics  
 GPA: 3.89  
 Advisor: Michael Crawford, Ph.D.  
 Committee Members: Dennis O' Rourke, Ph.D., Jennifer Raff, Ph.D., Maria Orive, Ph.D., Charla Marshall, Ph.D.  
Dissertation: *Improving Mitochondrial Haplogrouping and Short-Tandem Repeat Analyses for Anthropological Research using Next-Generation Sequencing Technologies*
- University of Montana**, Missoula MT 2014  
 Master of Arts: Forensic Anthropology  
 GPA: 3.85  
 Advisor: Randall Skelton, Ph.D.  
 Committee Members: Ashley McKeown, Ph.D., Jeffrey Good, Ph.D., Joseph Hefner, Ph.D., RPA, D-ABFA  
Thesis: *Evaluating Morphoscopic Trait Frequencies of Southeast Asians and Pacific Islanders*
- University of Tennessee**, Knoxville, TN 2012  
 Bachelor of Arts: Anthropology  
 Minor in Business Administration  
 Cum Laude  
 Advisor: Lee Meadows Jantz, Ph.D.

TEACHING EXPERIENCE

- Spring 2017 **Adjunct Professor**: Washburn University, Topeka, KS  
 AN 116: Physical Anthropology  
 Taught lecture course with lab components
- Spring 2017 **Graduate Teaching Assistant**: University of Kansas  
 BIOL 150: Principles of Molecular and Cellular Biology  
 Conducted 3 weekly laboratory sections  
 Tuition waiver with stipend
- Summer 2016-**Summer Instructor**: University of Kansas  
 Summer 2017 ANTH 304: Fundamentals of Physical Anthropology (online)

Intensive summer course

Fall 2015-  
Fall 2016 **Graduate Teaching Assistant:** University of Kansas  
ANTH 104/304: Fundamentals of Physical Anthropology  
Professor: Jennifer Raff, Ph.D.  
Conducted 4 weekly discussion/laboratory sections  
Tuition waiver with stipend

Fall 2015-  
Fall 2016 **Invited Guest Lecturer:** University of Kansas  
Lecture Title: "Topics in Forensic Anthropology"  
Presented to ANTH 104/304 Students  
Supervisor: Jennifer Raff, Ph.D.

Spring 2015 **Graduate Teaching Assistant:** University of Kansas  
BIO 247/647: Principles of Human Physiology Laboratory  
Professor: Kelly Johnson, Ph.D.  
Conducted 3 weekly laboratory sections  
Tuition waiver with stipend

Fall 2014 **Academic Tutor:** University of Kansas  
Athletic Department- Hourly appointment  
ANTH 102: Succeeding in Anthropology  
ANTH 160: The Varieties of Human Experience  
ANTH 304: Fundamentals of Physical Anthropology  
ANTH 310: Introduction to Archaeology  
BIO 246: Principles of Human Physiology  
BIO 350: Principles of Genetics  
BIO 400: Fundamentals of Microbiology  
BIO 413: History and Diversity of Organisms

Spring 2013 **Teaching Assistantship:** University of Montana  
ANTY 323: Native Peoples of Montana  
Professor: Greg Campbell, Ph.D.  
Tuition waiver with stipend

#### FUNDED AWARDS

Summer 2017 **Armed Forces DNA Identification Laboratory Research Intern:** Dover Air Force Base, Dover, DE  
All laboratory and reagent expenses covered for research project: "Resolution of mtDNA Haplogroups B2 and B4 using Next-Generation Sequencing of the Entire Mitochondrial Genome"

Fall 2017-  
Spring 2018 **KU Tuition Doctoral Grant:** University of Kansas  
\$1,800 to help cover cost of tuition

Spring 2017 **Carroll D. Clark Summer Research Award:** University of Kansas

\$1,000 for travel expenses to Armed Forces DNA Identification Laboratory in Dover, DE for dissertation research

- Fall 2015 **Carroll D. Clark Research Award:** University of Kansas  
\$400 for laboratory research costs: “Genetic Micro-differentiation of the Southern Fishing Outports of Newfoundland”
- Spring 2013 **Provost Academic Enrichment Funding:** University of Montana  
\$1000 for travel to the American Academy of Forensic Sciences Conference in Seattle, WA for presentation of research:  
“Hydrochloric Acid Treatment on Dismembered Pig Remains: A case study of the Snowtown Murders”
- Spring 2013 **Travel Funding:** University of Montana  
Montana Anthropology Student Association  
\$200 for travel to collect thesis data in Philadelphia, PA

#### FIELD & LAB EXPERIENCE

- Summer 2017 **Next-Generation Sequencing Laboratory Training and Experience;** Armed Forces Medical Examiner System’s Armed Forces DNA Identification Laboratory (AFMES-AFDIL), Dover Air Force Base, Dover, DE  
Supervisor: Charla Marshall, Ph.D.  
Focus: NGS library preparation and sequencing, numerous quantitation methods, long-range amplifications, introduction to robotic laboratory use, and mitogenome analysis.
- Spring 2016 **Formal Lab Training;** Raff Laboratory, Laboratories of Biological Anthropology, University of Kansas  
Supervisor: Jennifer Raff, Ph.D.  
Focus: Laboratory Techniques with Contemporary DNA
- Summer 2013 **Joint POW/MIA Accounting Command: Central Identification Laboratory;** Hickam AFB, HI  
Intern: Assisted with disinterments and the radiograph identification project.  
Worked with Joe Hefner, Ph.D., RPA, D-ABFA for standardized assessments of morphoscopic traits for M.A. thesis data collection
- August 2013 **Visiting Researcher;** Smithsonian Institution National Museum of Natural History: Human Skeletal Collections  
Collected skeletal measurements for Master’s thesis data  
Supervisor: David Hunt, Ph.D.
- August 2013 **Visiting Researcher;** The University of Pennsylvania Museum of Archaeology and Anthropology: Human Skeletal Collections  
Collected skeletal measurements for Master’s thesis data  
Supervisor: Janet Monge, Ph.D.

- 2011-2012 **Anthropological Research Facility**; University of Tennessee  
Volunteer: Human skeletal recoveries and new donor body placements
- Summer 2012 **Shadowed Murray Marks Ph.D., D-ABFA**; University of Tennessee Graduate School of Medicine  
Assisted with case work and observed autopsies
- Summer 2011 **PortAnta Archaeological Field School**; Lisbon, Portugal  
Processed, identified, labeled, and documented 1,000's of fragmented human skeletal elements
- 2008-2011 **Forensic Anthropology Center**; University of Tennessee  
Volunteer: Processed human skeletal remains
- Summer 2008 **Shadowed Orthopedic Surgeon**; Dr. Tracy Pesut M.D., Tennessee Orthopedic Clinic, Knoxville, TN
- Summer 2007 **Crime Scene Investigation Program**; Lead America; Fordham University, Bronx, NY
- Summer 2006 **Medicine & Healthcare Program**; National Youth Leadership Forum, UCLA, Los Angeles, CA

#### PUBLICATIONS

- 2018 **Wood, M.R.**, Sturk-Andreaggi, K., Ring, J.D., Parson, W., Crawford, M., Marshall, C. Resolution of mtDNA haplogroups B2 and B4 using Next-Generation Sequencing of the Entire Mitochondrial Genome. *Forensic Science International: Genetics*. (In preparation)

#### CONFERENCE PRESENTATIONS

- 2015 **Correlations Among Morphoscopic Traits in Peoples of the Pacific.** Melody D. Ratliff. Poster presented at the 84<sup>th</sup> annual American Association of Physical Anthropologists meeting, St. Louis, MO.
- 2014 **Morphoscopic Trait Frequencies of Southeast Asians and Pacific Islanders.** Melody D. Ratliff. Poster presented at the 66<sup>th</sup> annual American Academy of Forensic Sciences meeting, Seattle, WA.
- 2014 **Hydrochloric Acid Treatment on Dismembered Pig Remains: A case study of the Snowtown murders.** Kathleen A. Hauther, Melody D. Ratliff, Kelsey M. Collins. Poster presented at the Young Forensic Scientist Forum at the 66<sup>th</sup> annual American Academy of Forensic Sciences meeting, Seattle, WA.
- 2014 **Evaluating Morphoscopic Trait Frequencies of Southeast Asians and Pacific Islanders: Clinal Distribution Patterns.** Melody D. Ratliff. Poster presented at

the 83<sup>rd</sup> annual American Association of Physical Anthropologists meeting,  
Calgary, Alberta

2013 **Morphoscopic Trait Frequencies of Southeast Asians and Pacific Islanders: A Preliminary Examination.** Melody D. Ratliff. Poster presented at the 1<sup>st</sup> annual Western Bioarchaeology Group Conference, University of California Berkeley.

#### FORENSIC REPORTS

Fall 2013 **Head Case Analyst: Forensic Science Division Case # 12-007660;** University of Montana

Fall 2012 **Case Analyst: Forensic Science Division Case # 12-004600;** University of Montana for the Montana State Crime Lab

#### ORGANIZATIONS

2016-Present **Evolutionist Club,** University of Kansas  
Member

2015-Present **American Association of Anthropological Genetics**  
Student Member

2013-Present **American Association of Physical Anthropologists**  
Student Member

2013-Present **American Academy of Forensic Sciences**  
Student Affiliate

2013-2014 **Lambda Alpha, Anthropology Honor Society,** University of Montana  
Helped start the first active chapter  
President: 2013-2014

2012-2014 **Montana Anthropology Student Association,** University of Montana  
President: 2013-2014  
Fundraising Banquet Committee: 2013

2010-2012 **Undergraduate Anthropology Association,** University of Tennessee  
Member

#### DEPARTMENTAL INVOLVEMENT

2015-Present **Web Editor;** University of Kansas  
Laboratory of Biological Anthropology

Fall 2015 **Co-editor of KU Anthropologist;** University of Kansas  
Anthropology Department Newsletter

- Spring 2015 **Co-editor of LBA Newsletter**; University of Kansas  
Laboratory of Biological Anthropology Newsletter
- 2013-2014 **Anthropology Department Student Representative**; University of Montana  
Selected by Anthropology department head as the one student representative for  
the academic year

### SERVICE

- 2014 **American Academy of Forensic Sciences**, Seattle WA  
Volunteer
- 2014 **Forensic Anthropology Student Introduction**, Missoula, MT  
Hosted a biology class from Big Sky High School for an afternoon to learn about  
the field of Forensic Anthropology
- 2013 **American Academy of Forensic Sciences**, Washington D.C.  
Volunteer
- 2013 **58<sup>th</sup> Annual Montana State Science Fair**, Missoula, MT  
Physical and Biological Science Judge
- 2013 **Alpha Lambda Delta Physical Anthropology Day**, Missoula, MT  
Hosted 5<sup>th</sup> graders from local schools for an afternoon to learn about  
Anthropology and Forensics
- 2009-2012 **Sigma Alpha Professional Agriculture Sorority**, University of Tennessee  
Member  
Outstanding Senior of the Year  
Fundraising Chair: Coordinated Activities to Fund Philanthropies:  
  - Ag in the Classroom (Knox County Schools)
  - Ronald McDonald House
  - Relay for Life
- Summer 2009 **Mountain Hope Good Shepherd Clinic**: Quality Free/Reduced Medical Care to  
Working Individuals without Health Insurance, Sevierville TN  
Volunteer