

# ESTHER JAYWON LEE

## CURRICULUM VITAE

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Dept. of Sociology, Anthropology, and Social Work  
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### EDUCATION

- 2009      Ph.D. Anthropology, Binghamton University  
 Dissertation Title: Genetic Histories of the Yekuana from Southern Venezuela:  
 perspectives from the mitochondrial DNA, Y-chromosome, and autosomal DNA
- 2004      M.Sc. Biomolecular Archaeology (*with distinction*), University of Manchester  
 Thesis Title: MtDNA Variation and Phylogeography of Arabia
- 2003      B.A. *cum laude*, Ancient Studies & Biology, St. Olaf College  
 Molecular Biology Concentration Senior Thesis Title (*with distinction*): The Role  
 of Actin in DNA Translation in Yeast

### RESEARCH INTERESTS

Anthropological genetics, including archaeological genetics and the use of ancient DNA,  
 biomolecular archaeology, population genetics, peopling of the Americas, evolutionary medicine,  
 forensic anthropology

### PROFESSIONAL APPOINTMENTS

- 2015-current    Instructor in Anthropology  
 Department of Sociology, Anthropology, Social Work, Texas Tech University
- 2013-2015      Visiting Assistant Professor in Anthropology  
 Department of Sociology, Anthropology, Social Work, Texas Tech University
- 2013            Instructor in Anthropology  
 Department of Sociology and Anthropology, Elmira College

2010-2012 Postdoctoral Fellow  
Graduate School “Human Development in Landscapes”, Kiel University

## PUBLICATIONS

### Refereed Journal Articles

- 2016 Lee EJ, Merriwether DA, Kasparov AK, Khartanovich VI, Nikolskiy PA, Shidlovskiy FK, Timoshin VB, Pavlova EY, Pitulko VV. A genetic perspective of prehistoric hunter-gatherers in the Siberian Arctic: mitochondrial DNA analysis of human remains from 8,000 years ago. *Journal of Archaeological Science: Reports*. doi: 10.1016/j.jasrep.2016.06.001
- 2015 Lee EJ, Merriwether DA. Identification of whole mitochondrial genomes from Venezuela and implications on regional phylogenies in South America. *Human Biology* 87(1):29-38.
- Lee EJ, Merriwether DA, Kasparov AK, Nikolskiy PA, Sotnikova MV, Pavlova EY, Pitulko VV. Ancient DNA analysis of the oldest canid species from the Siberian Arctic and genetic contribution to the domestic dog. *PLoS ONE* 10(5):e0125759.
- 2014 Lee EJ, Krause-Kyora B, Rinne C, Schütt R, Harder M, Müller J, von Wurmb-Schwark N, Nebel A. Ancient DNA insights from the Middle Neolithic in Germany. *Archaeological and Anthropological Sciences* 6(2):199-204.
- Lee EJ, Renneberg R, Harder M, Krause-Kyora B, Rinne C, Müller J, Nebel A, von Wurmb-Schwark N. Collective burials among agro-pastoral societies in later Neolithic Germany: perspectives from ancient DNA. *Journal of Archaeological Science* 51:174-180.
- 2012 Byrnes J, Merriwether DA, Sirianni JE, Lee EJ. MtDNA and osteological analyses of an unknown historical cemetery from upstate New York. *Archaeological and Anthropological Sciences* 4(4):303-311.
- Lee EJ, Makarewicz C, Renneberg R, Harder M, Krause-Kyora B, Müller S, Ostritz S, Fehren-Schmitz L, Schreiber, S, Müller J, von Wurmb-Schwark N, Nebel A. Emerging genetic patterns during the European Neolithic: perspectives from a late Neolithic Bell Beaker burial site in Germany. *American Journal of Physical Anthropology* 148(4):571-579.
- 2010 Lee EJ, Koki G, Merriwether DA. Characterization of population structure from

the mitochondrial DNA vis-à-vis language and geography in Papua New Guinea. *American Journal of Physical Anthropology* 142(4):613-624.

Lee EJ, Luedtke JG, Allison JA, Arber CE, Merriwether DA, Steadman DW. The effects of different maceration techniques on nuclear DNA amplification using human bone. *Journal of Forensic Sciences* 55(4):1032-1038.

- 2009 Lee EJ, Anderson LM, Dale V, Merriwether DA. MtDNA origins of an enslaved labor force from the 18<sup>th</sup> century Schuylers Flatts Burial Ground in colonial Albany, NY: Africans, Native Americans, and Malagasy? *Journal of Archaeological Science* 36(12): 2805-2810.

### **Edited Volume**

- submitted Lee EJ. Genetics - Ancient. In López Varela SL, editor. *The SAS Encyclopedia of Archaeological Sciences*. Hoboken, NJ: Wiley-Blackwell.
- 2011 Lee EJ, Nebel A, von Wurmb-Schwark N. Brief communication: genetic analysis of skeletal remains from Matzwitz (Panker LA 33), Kreis Plön. *Offa* 65/66 (2008/09): 91-92.

### **Technical Reports**

- 2008 Jastremski NA, Lee EJ. DNA analysis of teeth from two different individuals excavated at Pumapungo Archaeological Park in 2007. Banco Central de Ecuador, Cuenca, Ecuador.

### **Manuscripts in Preparation**

- in prep Lee EJ, Merriwether DA. Genetic histories of an indigenous population from southern Venezuela inferred from the mtDNA, Y-STRs, and autosomal STRs.

### **FUNDING, HONORS, AWARDS**

- 2009 Doctoral Dissertation Assistantship, Department of Anthropology, Binghamton University
- 2007-2008 Graduate Student Travel Award, Graduate Student Organization & Department of Anthropology, Binghamton University
- 2002-2003 Blue Key Honor Society, Eta Sigma Phi Classics Honor Society
- 2002 Undergraduate Summer Research (funded by MERCK), Department of Biology, St. Olaf College

## TEACHING EXPERIENCE

- 2013-current **Instructor**, Department of Sociology, Anthropology, Social Work  
Texas Tech University
- |   |                                     |
|---|-------------------------------------|
| Physical Anthropology                           | Fall 2013-Spring 2015; Fall 2016    |
| Anthropology at the Movies                      | Fall 2015-Spring 2016               |
| Human Variation                                 | Spring 2014, Fall 2015- Spring 2016 |
| Genes, Plagues, and Culture                     | Spring 2015, Fall 2016              |
| Anthropological Perspectives on Women's Biology | Spring 2015                         |
| Human Diversity (graduate)                      | Spring 2014, Fall 2015              |
| Peopling of the Americas (graduate)             | Spring 2016                         |
- 2013 **Instructor**, Department of Sociology and Anthropology - Elmira College
- |   |             |
|---|-------------|
| Cultural Anthropology                   | Winter 2013 |
| Introduction to Biological Anthropology | Winter 2013 |
- 2008 **Instructor of Record**, Department of Anthropology - Binghamton University
- |               |             |
|---------------|-------------|
| Human Origins | Spring 2008 |
|---------------|-------------|
- 2005-2008 **Teaching Assistant**, Department of Anthropology - Binghamton University
- |   |                      |
|---|----------------------|
| Introduction to Anthropology            | Fall 2005, Fall 2008 |
| Introduction to Biological Anthropology | Spring 2007          |
- 2003 **Teaching Assistant**, Department of Biology - St. Olaf College
- |                             |             |
|-----------------------------|-------------|
| Biology Foundational Course | Summer 2003 |
|-----------------------------|-------------|

## INVITED TALKS

- 2013 Infectious Diseases: perspectives from genetics - ancient DNA and beyond, Department of Anthropology, Binghamton University
- 2012 What ancient DNA can tell us about the past, Institute of Legal Medicine, Universitätsklinikum Schleswig-Holstein
- 2010 Understanding histories through genetics: perspectives from molecular anthropology, Institute of Clinical Molecular Biology, Kiel University

## CONFERENCE PARTICIPATION

- 2015 Lee EJ, Merriwether DA, Kasporov AK, Khartanovich VI, Nikolskiy PA,

Shidlovskiy FK, Timoshin VB, Pavlova EY, Pitulko VV. Ancient DNA analysis of human remains from the Siberian Arctic. Poster presented at the 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, St. Louis, MO. March 25-28, 2015.

- 2013 Lee EJ, Merriwether DA. Whole mitochondrial genome sequences from South America: insights into the demographic history of the continent. Paper presented at the 82<sup>nd</sup> Annual Meeting of the American Association of Physical Anthropologists, Knoxville, TN. April 10-14, 2013.
- 2012 Lee EJ, Steffen C, Harder M, Krause-Kyora B, von Wurmb-Schwark N, Nebel A. An ancient DNA perspective on the Iron Age “princely burials” from Baden-Württemberg, Germany. Poster presented at the 81<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Portland, OR
- 2011 Lee EJ, Harder M, Krause-Kyora B, von Wurmb-Schwark N, Nebel A. Where are all the “WIX”? Rare European maternal lineages W, I, and X2 in the past and present. Presentation given at the 5<sup>th</sup> International Conference for DNA Polymorphisms in Human Populations. Porto, Portugal, Nov. 23-25.
- Lee EJ, Pitulko VV, Nikolskiy PA, Kasporov A, Pavlova EY, Merriwether DA. Mitochondrial DNA analysis of ancient Siberian canids. Poster presented at the 80<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, MN.
- Session Chair for “Open Workshop: Socio-Environmental Dynamics over the Last 12,000 Years: The Creation of Landscapes II”, Session 10: Novel Technologies in Biomolecular Archaeology, Graduate School “Human Development in Landscapes”, Kiel University, March 14-18.
- 2010 Byrnes JF, Bush P, Lee EJ, Merriwether DA, Sirianni JE. Utilizing mtDNA to look at cold cases: who were the people in the Jackson Street Burials? Poster presented at the 79<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM.
- Byrnes JF, Bush P, Lee EJ, Merriwether DA, Sirianni JE. Validity of portable X-Ray fluorescence in assistance with identification of individuals in a burial setting by comparison with mtDNA. Paper presented at the 62<sup>nd</sup> Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.
- 2009 Lee EJ, Anderson LM, Dale V, Merriwether DA. Origins of enslaved labor force from 18th century colonial Albany inferred from mtDNA: Africans, Native

Americans, and Malagasy? Poster presented at the 78<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Chicago, IL.

2008 Lee EJ, Merriwether DA. Complicating the genetic histories of the Amazon: insights from the Yekuana. Presentation given at the 77<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH.

Luedtke JG, Lee EJ, Allison JL, Merriwether DA, Steadman DW. The viability of mtDNA and STR analysis after chemical and heat maceration techniques performed on human bone. Poster presented at the 77<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH.

Lee EJ, Anderson LM, Dale V, Merriwether DA. DNA analysis of Schuyler Flatts Burial. Presentation given at the 73<sup>rd</sup> Annual Meeting of the Society of American Archaeology, Vancouver, BC.

2007 Lee EJ, Friedlaender JS, Merriwether DA. Characterization of mtDNA variation and population structure of Papua New Guinea. Poster presented at the 76<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, PA.

## DEPARTMENTAL TALKS

2012 Ancient DNA and genetic landscapes, Graduate School “Human Development in Landscapes” (GS HDL), Kiel University

2010 Human, development, landscapes, and molecular anthropology, GS HDL, Kiel University

Perspectives from molecular anthropology, GS HDL, Kiel University

## RESEARCH EXPERIENCE

2011-current Research Topic: Genetic analysis of a Roman Iron Age site (Frienstedt, Germany)  
Collaborator: Christoph Schmidt (Schloss Gottorf)

2008-2016 Research Topic: Ancient DNA analysis of Siberian Arctic canid and human remains  
Collaborators: D. Andrew Merriwether, Vladimir Pitulko (Russian Academy of Science)

- 2010-2013 Postdoctoral Research, Graduate School “Human Development in Landscapes”, Kiel University  
Topic: Genetic analysis of Neolithic populations in Central Europe  
Advisors: Nicole von Wurmb-Schwark, Almut Nebel, Johannes Müller
- 2008-2012 Research Topic: Jackson Street burial ancient DNA project  
Collaborators: Jennifer Byrnes (U Buffalo), D. Andrew Merriwether
- 2005-2009 Dissertation research, Department of Anthropology, Binghamton University  
Topic: Genetic histories of the Yekuana from southern Venezuela  
Advisor: D. Andrew Merriwether
- 2004-2009 Research Topic: Schulyer Flatts burial ancient DNA project  
Advisors: D. Andrew Merriwether, Lisa Anderson (New York State Museum)  
Research Topic: Bone maceration and DNA amplification  
Advisors: D. Andrew Merriwether, Dawnie Wolfe Steadman (U Tennessee)  
Research Topic: Populations genetics of Papua New Guinea populations  
Advisor: D. Andrew Merriwether
- 2004 Thesis Research, University of Manchester  
Topic: MtDNA variation and phylogeography in Arabia  
Advisors: Martin Richards (University of Leeds), Terry Brown
- 2002-2003 Independent Research, Department of Biology, St. Olaf College  
Topic: The Role of Actin in DNA Translation in Yeast  
Advisor: Kimberly Kandl

## **PROFESSIONAL MEMBERSHIPS**

American Anthropological Association, American Association of Anthropological Genetics, American Association of Physical Anthropologists

## **ACADEMIC & UNIVERSITY SERVICE**

- 2012-current Anonymous Peer Reviewer  
American Journal of Physical Anthropology (2012-), Journal of Archaeological Science (2013-), Human Biology (2015-), PLOS ONE (2015-), Journal of Biogeography (2015-)
- 2013-2014 Guest speaker and judge for Lambda Alpha Anthropology Honor Society, Texas Tech University

- 2010-2011 Research Grant Panel, Graduate School “Human Development in Landscapes”, Kiel University
- 2007-2008 Off Campus College Transport, Inc. Board of Directors, Binghamton University
- 2006-2008 Graduate Student Faculty Liaison, Department of Anthropology, Binghamton University
- 2006-2007 Graduate Student Representative for Social Sciences, Harpur College Council, Binghamton University
- 2005-2007 Budget and Chartering Committee Member & Anthropology Representative Graduate Student Organization, Binghamton University
- 2003 Committee Member, Women’s History Month (Women in Science), St. Olaf College
- 2002-2003 President, Blue Key Honor Society, St. Olaf College  
Executive Assistant, Diversity Celebration Committee, St. Olaf College

### **OTHER ACTIVITIES AND EXPERIENCE**

- 2010-2016 Research Associate, Department of Anthropology, Binghamton University
- 2006-2008 Intramural co-ed soccer team captain, Binghamton University
- 2003 VIR-SACE Archaeological Summer School participant, Blagoevgrad, Bulgaria
- 1990-1999 Fourth grade through high school education in South Korea  
Daenam Elementary, Songhyun Girl’s Middle School, Hyosung Girl’s High School (Daegu, South Korea)

### **LANGUAGES**

- Korean (fluent)  
French (elementary reading)  
German (elementary reading and conversation)