# Aidan A. Ruth, Ph.D.

# Curriculum Vitæ

Center for Anatomical Sciences and Education	
Department of Surgery	
Saint Louis University School of Medicine	
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# **Professional Appointments**

2019-present 2016-2019	Assistant Professor, Center for Anatomical Sciences and Education, Saint Louis University School of Medicine Lecturer, Department of Pathology and Anatomical Sciences, University of Missouri School of Medicine
Education	
2017 2010 2008	Ph.D. Biomedical Sciences, Biological Anthropology, Kent State University, Kent, Ohio M.A. Anthropology, Kent State University, Kent, Ohio B.A. Anthropology, The Ohio State University, Columbus, Ohio

#### **Research Interests**

Skeletal biology, locomotion, bone histology, ligaments, the knee, basicranial morphological diversity, comparative anatomy, evolutionary anthropology

#### **Teaching Interests**

Biological Anthropology, Human Evolution, Human Biology, Dissection-based gross anatomy, Neuroanatomy, Embryology, Histology

#### **Fellowships and Awards**

2019	AAA Platform Award Finalist Travel Award: \$250
2010-2016	Graduate Teaching Assistantship: \$22,000 annually
	Kent State University School of Biomedical Sciences
2015	Research Award: \$375
	Kent State Graduate Student Senate
2010	Graduate Research Assistantship: \$750, summer 2010
	Kent State University Department of Anthropology
2010	William S. Pollitzer Student Travel Award: \$500
	American Association of Physical Anthropologists
2010-2016	Domestic Travel Award- 4 Awards- 2010, 2013, 2015, 2016: \$350 each
	Kent State Graduate Student Senate
2008-2010	Graduate Teaching Assistantship: \$8,000 annually
	Kent State University Department of Anthropology

2016 **AA Ruth**, RS Meindl, MA Raghanti, and CO Lovejoy (2016). Locomotor pattern fails to predict foramen magnum angle in marsupials, rodents, and strepsirrhine primates. *Journal of Human Evolution*, 94: 45-52.

# **Peer-reviewed Clinical Abstracts**

2015	<b>A Ruth,</b> M Linde-Rosen, FH Fu, CO Lovejoy. The human anterior cruciate ligament's caliber is similar to those of other mammals. <i>Pittsburgh Orthopaedic Journal</i> . Volume 26.
2014	<b>A Ruth,</b> CO Lovejoy, S Ingham, MA Raghanti, FH Fu. Comparative Histological Examination of the Mammalian Anterior Cruciate Ligament (ACL). <i>Pittsburgh Orthopaedic Journal</i> . Volume 25.

#### **Conference Presentations**

Podium Presentations	
2019	<b>A Ruth.</b> Determinants of Entheseal Anatomy: Body size, activity level, or developmental vestige? American Association of Anatomists. Orlando. <i>Platform Award Finalist.</i>
2018	<ul> <li>A. Ruth. Mineralized Fibrocartilage Thickness at Ligament Insertion Sites. Society of Integrative and Comparative Biologists Division of Vertebrate Morphology/Division of Comparative Biomechanics Regional Meeting. Columbia</li> <li>A. Ruth, MA Raghanti, CO Lovejoy. Foramen magnum position and angle reflect neural</li> </ul>
2016	organization. Podium. American Association of Physical Anthropologists. Austin. <b>A. Ruth,</b> TL Hieronymus, CO Lovejoy. Differences in Anterior Cruciate Ligament Fiber
2010	Orientation Between Digitigrade and Palmigrade Animals. American Association of Anatomists. San Diego.
Poster Presen	tations
2019	<b>A. Ruth,</b> Kevin Middleton. Mechanical stimulus vs. selection in determining enthesis morphology in mice. American Association of Physical Anthropologists. Cleveland.
	Invited.
2017	<ul> <li>A. Ruth, MA Raghanti, CO Lovejoy. Comparative Anatomy of the Anterior Cruciate Ligament Insertions in Primates. American Association of Anatomists. Chicago.</li> <li>A. Ruth. Knee rotation and lateral meniscus shape and attachments in hominoids.</li> </ul>
0045	American Association of Physical Anthropologists. New Orleans.
2015	<b>A Ruth,</b> MA Raghanti, CO Lovejoy. Bundle Number, Body Mass, and Bipedality: Probing the Comparative Anatomy of the Anterior Cruciate Ligament. American Association of Physical Anthropologists. St. Louis
2014	<b>A Ruth,</b> CO Lovejoy, S Ingham, FH Fu. Bundle Number and Bipedality: Probing the Comparative Anatomy of the Anterior Cruciate Ligament. Midwest Primate Interest Group. Madison.
2010	<b>A. Ruth,</b> MA Raghanti, RS Meindl, and CO Lovejoy. Foramen magnum position is influenced by neocortex size but not posture. American Association of Physical Anthropology, Albuquerque.

2008 JK McKee, A Kolatrolowicz, L Reitsema, **A Ruth**, S Schlecht, O. Ulvi, T Weston. Backpedaling in human evolution- adaptive values of bipedalism in reverse. American Association of Physical Anthropology. Columbus.

#### **Published Teaching Materials**

2014	Issues in Human Evolution Lab Manual. Kent State University. M. Norconk, M. Sumner,
	A. Ruth, and E. Henthorn. Kendall Hunt. Dubuque IA, United States.
2008-2013	Lab Manual: Issues in Human Evolution. Kent State University. M. Norconk and A. Ruth.

#### **Enduring Electronic Teaching Materials**

2012 How to sex a pelvis- Online video tutorial for students of Issues of Human Evolution, a biological anthropology laboratory course at Kent State University.
 Distance Learning Modules: The following modules consist of written "primers," activity worksheets and digital materials, journal prompts, and quizzes designed for a distance learning biological anthropology laboratory offered at Kent State University and are still in use.

- 1. Forensic Anthropology
- 2. Primate and Human Locomotion
- 3. Adventures in Dental Anatomy
- 4. Primate Origins and Evolution
- 5. Early Hominids
- 6. Early Homo and Homo erectus

#### **University Teaching Experience**

Anatomy	
2016-	Instructor - Clinically Oriented Human Gross Anatomy (University of Missouri School of
	Medicine)
2016-	Instructor and Course Coordinator - Human Gross Anatomy (Undergraduate Anatomy
	Lab) (University of Missouri)
2016	Coordinator – Seminar in Pathology and Anatomical Sciences (Undergraduate Anatomy
	Internship Program) (University of Missouri)
2011-2013	Instructor – Human Gross Anatomy (Kent State College of Podiatric Medicine)
	Instructor - Anatomy of the Lower Extremity (KSU College of Podiatric Medicine)

#### Biological Anthropology/Evolutionary Biology

2016, 2018	Evolutionary Biology (team taught) (University of Missouri, Department of Pathology
	and Anatomical Sciences)
2017	Evolutionary Morphology (team taught) (University of Missouri, Department of
	Pathology and Anatomical Sciences)
2014-2016	Instructor- Human Evolution (Kent State University)
2012	Course Planner and Content Developer: Issues in Human Evolution Online Laboratory
	Course (KSU)
2011-2012	Course Coordinator: Issues in Human Evolution (KSU)
2008-2012	Instructor - Issues in Human Evolution (KSU).

#### **Invited Intramural Lectures**

2019	Ligaments, Tendons, and their Insertions: Insights from Comparative and Experimental Anatomy. Grand Rounds, Department of Pathology and Anatomical Sciences, University of Missouri. March 19 <sup>th</sup> .
2017-18	Functional Morphology of the Knee. Guest lectures in Human Functional Morphology, Department of Anthropology, University of Missouri. Dr. Libby Cowgill.
2009	Darwin and Human Evolution. Darwin Day Symposium, Kent, OH. February 10.

# **Professional Development**

2019	Amira-Avizo Software for Physical Anthropology- Thermo Fisher Scientific for the American Association of Physical Anthropologists. Alex Hall.
	American Association of Thysical Anthropologists. Alex Trail.
2018	Online Teaching Foundations- Educational Technologies at University of Missouri
2018	Transforming Learning Through Inclusive Teaching- Teaching Academy at the University
	of Missouri; Astrid Villamil, Ph.D.
2017	Active Learning Workshop; Cheryl Hill, Ph.D.

# **Research Assistantships**

2009	Research Assistant; Dr. Chi-hua Chiu's Evolutionary Genetics Lab, Department of
	Anthropology, KSU.

# Field Experience

#### Service to the Profession

Manuscript Reviews		
2019	Journal of the American Podiatric Medical Association	
2018	Scientific Reports	
2016-	Journal of Human Evolution	
2017	The Foot	
2016	Anatomical Sciences International	
Committee Service		
2016	President's Award Committee, 31 <sup>st</sup> Annual Graduate Research Symposium, KSU	
2012	Research Award Committee, Graduate Student Senate, KSU, Kent Ohio	
2011	Local Arrangements Committee, $8^{th}$ annual conference of the Midwest Primate Interest	
	Group, Kent, Ohio	
2008	Local Arrangements Committee, American Association of Physical Anthropology 77 <sup>th</sup> annual meeting, Columbus, Ohio.	

# **Public Outreach and Exhibits**

2016-	University of Missouri Human Anatomy Lab Outreach Sessions
2017-2018	Dinosaurs and Cavemen Science Expo, Columbia, Missouri.
2016	STEM Project Fair Judge and Speed Mentor, Northeast Ohio STEM Alliance, Kent Ohio.

2016	"Collagen Fiber Orientation in the ACL of a Bonobo." <i>Beauty of Data</i> exhibit. Kent
	State University MuseLab. Kent Ohio.
2011	Brain Awareness Days, Northeast Ohio Chapter of Society for Neuroscience. Rootstown
	Ohio.
2008	Girls Explore Archaeology, Central Ohio Center for Science and Industry, Columbus
	Ohio.
2007-2008	Science Mentor, Wonders of Our World, OSU, Columbus Ohio.

#### **Media Attention**

**Spring 2016:** Story on *Beauty of Data* exhibit featuring my *Collagen Fiber Orientation of the ACL* in Kent State Magazine. (https://www.kent.edu/magazine/spring-2016)

**Spring 2016**: Online coverage of A Ruth, RS Meindl, MA Raghanti, and CO Lovejoy, Locomotor pattern fails to predict foramen magnum angle in marsupials, rodents, and strepsirrhine primates, including Inside Science (http://tinyurl.com/z5ksykb)

**Professional Memberships** 

American Association of Anatomists

American Association of Physical Anthropologists