

# SARAH E. BAUMGARTEN

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## EDUCATION

- 2021**      **PH.D., ANTHROPOLOGY** Washington University in St. Louis, St. Louis, MO.  
Advisor: Dr. David Strait
- 2018**      **A.M., BIOLOGICAL ANTHROPOLOGY** Washington University in St. Louis,  
St. Louis, MO.
- 2015**      **M.S., FORENSIC AND BIOLOGICAL ANTHROPOLOGY** Mercyhurst  
University, Erie, PA.
- 2012**      **B.A., ANTHROPOLOGY**, Stony Brook University, Stony Brook, NY.

## GRANT SUPPORT

### *Grants and Awards*

- 2020      National Science Foundation Doctoral Dissertation Research Improvement Grant (PI: D. Strait). Biomechanical Implications of Mandibular Premolar Root Variation in Hominins and Extant Primates. \$31,275.
- 2016-present      University Fellowship, Washington University in St. Louis.
- 2016-present      Summer Research Grant, Washington University in St. Louis.
- 2015      Forensic Sciences Foundation Student Scholarship Award, American Association of Forensic Sciences. \$250.

## PUBLICATIONS

- 2020      **Baumgarten S.E.** and Kenyon B. 'Metric Methods for Estimating Sex Using the Pelvis'. In A.R. Klales (Ed). *Sex Estimation in the Human Skeleton*. Elsevier.

### *In prep*

- 2021      **Baumgarten, S.E.**, Smith, A.L., Wright, K.A., Wright, B.W., Scott, R.S., Ross, C.F., Strait, D.S., Biomechanical Correlates of Premolar Root Variation in Robust and Gracile Capuchins. *American Journal of Physical Anthropology*.
- 2021      Greer, S., Baumgarten, S.E., Simonetto, A., Segura, M., Doretti, M. Importance of Site-wide Taphonomic Assessments: Highly Fragmented, Commingled, and Heat-Altered Remains from Mass Graves. *Forensic Anthropology*.
- 2021      **Baumgarten, S.E.**, Tayal, S., Strait, D. "Biomechanical Correlates of Mandibular Premolar Root Variation in Robust and Gracile Australopiths". *American Journal of Physical Anthropology*.

## DEVELOPMENT OF EDUCATIONAL TECHNOLOGY

- 2018      Allen, K., Baumgarten, S.E., Ritzman, T., Morhardt, A., Glowacka, H., Scott, A., Bauernfeind, A. Thumbroll Application. Medical Education Application for iOS and Android. Anatomy Dissection Modules for Axilla, Brachial Plexus, Posterior Leg, Sublingual Region, Superficial Back, Superficial Fascia of Upper Limb, Superficial Fascia of Lower Limb.

## PUBLISHED ABSTRACTS AND PRESENTATIONS

- 2020 **Baumgarten, S.E.**, Tayal, S., Strait, D. “Biomechanical Correlates of Mandibular Premolar Root Variation in Robust and Gracile Australopiths”. American Association of Physical Anthropologists, Los Angeles, CA.
- 2018 **Baumgarten, S.E.**, Smith, A.L., Wright, K.A., Wright, B.W., Scott, R.S., Ross, C.F., Strait, D.S. “Biomechanical Correlates of Premolar Root Variation in Robust and Gracile Capuchins”. Poster. American Association of Physical Anthropologists, Austin, TX.
- 2018 Greer, S., **Baumgarten, S.E.**, Siminetto, A., Segura, M., Doretti, M. “Importance of Site-wide Taphonomic Assessments Highly Fragmented, Comingled, and Heat-Altered Remains”. Poster. American Academy of Forensic Sciences, Seattle, WA.
- 2017 Kenyon, B., **Baumgarten, S.E.**, Sirianni, J. “A Metric Approach to Assessing Sex in the Erie County Poorhouse Collection”. Poster. American Association of Physical Anthropologists, New Orleans, LA.
- 2016 **Baumgarten, S.E.** “A Metric Approach to Sex Estimation Using Fragmented Os Coxae”. Podium. American Association of Physical Anthropologists, Atlanta, GA.
- 2015 **Baumgarten, S.E.**, “Human Rights Investigations in Mexico: A Case Study”. Podium. Bioarchaeologists’ Northeast Regional Dialogue Conference, Buffalo, NY.
- 2015 **Baumgarten, S.E.**, Ousley, S.D., Decker, S.J., Shirley, N.R. “A Transparent Method for Sex Estimation Using Refined DSP Measurements of the Innominate”. Poster. American Association of Physical Anthropologists, St. Louis, MO.
- 2015 **Baumgarten, S.E.**, Ousley, S.D. “Estimating Sex from the Innominate Utilizing New Measurements”. Poster. American Academy of Forensic Sciences, Orlando, FL.
- 2014 **Baumgarten, S.E.**, Ousley, S.D. “Estimating Sex from the Innominate Utilizing New Measurements”. Podium. Forest, Lakes, and Grasslands (FLAG) Forensic Anthropology, Roscommon, MI.

## TEACHING AND MENTORSHIP

### *Instructor of Record*

- Spring 2016 Instructor. Zooarchaeology. Mercyhurst University.
- Fall 2015 Instructor. Basics of Forensic Anthropology. Mercyhurst University.

### *Teaching Assistant*

- Fall 2019 Assistant to the Instructor. Topics in Health and Healing. Washington University in St. Louis.
- Spring 2019 Assistant to the Instructor. Human Osteology. Washington University in St. Louis.
- Fall 2018 Assistant to the Instructor. The Human Body: Anatomy, Embryology, and Imaging. Washington University Medical School in St. Louis.
- Spring 2018 Assistant to the Instructor. Anthropological Genetics. Washington University in St. Louis.
- Fall 2017 Assistant to the Instructor. Principles of Human Anatomy. Washington University in St. Louis.
- Spring 2015 Teaching Assistant. Paleoanthropology. Mercyhurst University.
- Fall 2014 Teaching Assistant. Modifications of the Human Skeleton. Mercyhurst University.
- Fall 2014 Teaching Assistant. Fragmentary Human Osteology. Mercyhurst University.

***Departmental Tutor***

Fall 2019 The Human Body: Anatomy, Embryology, and Imaging. Washington University Medical School in St. Louis.

***Teaching Certifications***

2020 Professional Development in Teaching Program: Community Member Certification. Center for Teaching and Learning. Washington University in St. Louis.

**INVITED TALKS**

- 2016 Lecture to local public school and community on Physical Anthropology and Zooarchaeology, Erie, PA.
- 2015 Lecture to Criminology Course on Forensic Pathology and Forensic Anthropology, Mercyhurst University, Erie, PA.
- 2014 Lecture to Gifted and Talented Students in public school district on Physical and Forensic Anthropology, Erie, PA.
- 2014 Lecture to forensic science class on Forensic Anthropology and Forensic Pathology, Kings Park, NY.

**FIELD AND RESEARCH EXPERIENCE**

***Academic***

- 2017-present Evolutionary Morphology Student Lab Manager. Washington University in St. Louis.
- 2017 Lab Assistant in archaeological excavation at Arma Veirana, Erli, Italy.
- 2013 Research Assistant, Human Osteology Laboratory, Department of Anthropology, Stony Brook University. Supervisor: Dr. Fred Grine
- 2012 Research Assistant, Primate Locomotion Laboratory. Department of Anatomy, Stony Brook University School of Medicine. Supervisors: Dr. Susan Larson, Dr. Brigitte Demes, Dr. Matthew O'Neil,
- 2011 Turkana Basin Institute Field School, Turkana, Kenya.

***Professional***

- 2015-present Consulting Forensic Anthropologist, Argentine Forensic Anthropology Team.
- 2013-2016 Forensic Anthropologist, Forensic Scene Recovery Team, Mercyhurst University.
- 2014-2015 Deputy Quality Assurance Manager, Mercyhurst Forensic Anthropology Laboratory.
- 2014-2015 Graduate Employee, Department of Applied Forensic Sciences, Mercyhurst University.
- 2014 Consulting Forensic Anthropologist for the Federal Bureau of Investigation.
- 2014 Senior Intern at Suffolk County Medical Examiner's Office, Hauppague, NY.

**MENTORING**

***Undergraduate***

- Elle Hanson, (B.A., Anthropology, Washington University in St. Louis)
- Shubham Tayal (B.S., Biology, Washington University in St. Louis)
- Victoria Hain (B.S., Biology, Washington University in St. Louis)
- Jennifer Coulombe (B.S., Applied Forensic Science and Biology, Mercyhurst University)
- Jessica Van Dam (B.S., Applied Forensic Science, Mercyhurst University)

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***Graduate***

Rachel Sender, (M.A., Anthropology, Washington University in St. Louis)

Jessica Yopak (M.S., Forensic and Biological Anthropology, Mercyhurst University)

Chelsea Ramirez (M.S., Forensic and Biological Anthropology, Mercyhurst University)

Kelsey Carpenter (M.S., Forensic and Biological Anthropology, Mercyhurst University)

**SERVICE**

2018-2019 Graduate Student Subfield Representative to Anthropology Faculty, Washington University in St. Louis.

2017-2018 Graduate Student Coordinator of Journal Club, Washington University in St. Louis.

**PROFESSIONAL MEMBERSHIPS**

American Association of Physical Anthropologists

American Academy of Forensic Sciences, Anthropology Section

Golden Key International Honor Society