

# Jacob Spencer Griffin

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## Education

- 2016-Pres. **Ph.D. Student, Anthropology**, University of North Carolina at Chapel Hill  
Human Biology, Ecology, and Evolution Track
- 2014-2016 **M.S., Anthropology**, Mercyhurst University  
Forensic and Biological Anthropology Track
- 2010-2014 **B.S., Applied Forensic Sciences** (*Summa cum Laude*), Mercyhurst University  
Concentration in Forensic Anthropology; Minor in Biology

## Research Interests

Aging, Life History Theory, Physical activity, Inflammation, Cardiovascular health, Psychosocial stress, Human biology, Skeletal biology

## Grants, Awards, & Honors

- 2016-Pres. University of North Carolina at Chapel Hill Teaching Assistantship
- 2017 Harriet J. Kupferer Graduate Exploratory Summer Research Award
- 2016 Sister Eustace Taylor Award for Outstanding Graduate Student, Mercyhurst University
- 2015 Forensic Science Foundation Travel Grant to the American Academy of Forensic Sciences Annual Meeting
- 2015 Mercyhurst University Student Research Council Creative and Scholarly Research Fund Award
- 2014-2016 Mercyhurst University Graduate Assistantship
- 2014 Graduated Summa Cum Laude, Mercyhurst University
- 2014 Frank Barry Leadership Award, Mercyhurst University
- 2010-2014 Egan Scholarship, Mercyhurst University
- 2010-2014 Mercyhurst University Athlete Scholarship
- 2010-2014 Dean's List (awarded every term)

## Publications

- 2018 Wilbur RE, **Griffin JS**, Sorensen M, Furberg RD. Establishing digital biomarkers for occupational health assessment in commercial salmon fishermen: Protocol for a mixed-methods study. *JMIR research protocols*. December 2018;7(12):e10215.
- 2016 **JS Griffin**. Ordinal and metric method for adult age estimation using vertebral osteophytosis. Masters Thesis. Mercyhurst University. May 2016.

## Presentations & Published Abstracts

### Poster Presentations

- 2019 **Griffin JS**, Sorensen MV. *Biological age estimation using NHANES 2005-2006: Relationship between physical activity, inflammation, and biological age*. 44<sup>th</sup> Meeting of the Human Biology Association. Cleveland, OH. March 2019.

- 2019 **Griffin JS**, Berger SM, Dent SC. *Exploring pathways to skeletal phenotypes: Biomarkers of skeletal health and bone mineral density in NHANES 2003-2004*. 88<sup>th</sup> Meeting of the American Association of Physical Anthropologists. Cleveland, OH. March 2019.
- 2019 Dent SC, Berger SM, **Griffin JS**. *Exploring pathways to skeletal phenotypes: Biomarkers of inflammation, skeletal health, and oral health in NHANES 2003-2004*. 88<sup>th</sup> Meeting of the American Association of Physical Anthropologists. Cleveland, OH. March 2019.
- 2018 **Griffin JS**, Sorensen MV, Barsukov AP, Klimova, TM. *Adiponectin and the pathogenesis of cardiovascular disease: A global comparison of the utility of adiponectin as a predictor of cardiovascular disease risk*. 43<sup>rd</sup> Meeting of the Human Biology Association. Austin, TX. April 2018.
- 2018 Wilbur RE, **Griffin JS**, Sorensen MV, Furberg RD. *Measuring the physical and occupational stress experienced by commercial salmon fishermen in Bristol Bay, Alaska*. 43<sup>rd</sup> Meeting of the Human Biology Association. Austin, TX. April 2018.
- 2018 **Griffin JS**. *Ordinal and metric methods for adult age estimation using vertebral osteophytosis*. 87<sup>th</sup> Meeting of the American Association of Physical Anthropologists. Austin, TX. April 2018.
- 2017 **Griffin JS**, Sorensen MV, Barsukov AP, Klimova, TM. *Association of c-reactive protein, interleukin-6, adiponectin, and body composition to cardiometabolic risk in indigenous siberians*. 42<sup>nd</sup> Meeting of the Human Biology Association. New Orleans, LA. April 2017.
- 2016 **Griffin JS**, Ousley SD. *Age estimation using osteophytic activity on the lumbar vertebrae and partial least squares regression*. 68<sup>th</sup> Meeting of the American Academy of Forensic Sciences. Las Vegas, NV. February 2016.
- 2015 **Griffin JS**. *United Way of Erie County: Spatial analysis of the Imagination Library's enrolled participants and potential recruitment areas*. 10<sup>th</sup> Annual Northwestern Pennsylvania Geographic Information Systems Conference. Clarion, PA. October 2016.

### **Symposiums Organized**

- 2019 **Griffin JS**, Dent SC, Berger SM. Biocultural approaches to the plasticity of the Human Skeleton. Poster Symposium, 88<sup>th</sup> Meeting of the American Association of Physical Anthropologists. Cleveland, OH. March 2019.

### **Teaching Experience**

- 2016-Pres. **Teaching Assistant**, Department of Anthropology, University of North Carolina  
**Undergraduate Courses:** *Human Growth and Development, Medicine and Anthropology, World Prehistory, Global Health, Living Medicine*
- 2017 **Instructor**, Duke University Talent Identification Program at Rice University  
**Course:** *Forensic Anthropology*
- 2015 **Laboratory and Field Exercise Assistant**, Department of Applied Forensic Sciences, Mercyhurst University, Forensic Anthropology Summer Short Courses  
**Courses:** *Death-Scene Archaeology: Field Methods in the Location, Recovery, & Interpretation of Human Remains from Outdoor Contexts; Fragmentary Human Osteology; Documentation and Interpretation of the Fatal Fire Scene*

2014-2016 **Teaching Assistant**, Department of Anthropology, Mercyhurst University  
**Graduate Courses:** *Basics for Forensic Anthropology, Zooarchaeology, Forensic Archaeology*  
**Undergraduate Courses:** *Introduction to Forensic Anthropology, Introduction to Forensic Science, Criminalistics, Human Skeletal Biology*

***Invited Lectures:***

2015 *Introduction to Forensic Taphonomy*. Lecture presented to *Introduction to Forensic Science*. Instructor: Dennis P. Donovan. Mercyhurst University, Erie, PA. October, 2015.

2015 *Introduction to Comparative Anatomy and Zooarchaeology*. Lecture presented to the Erie County Conservation Department's Envirathon. Erie, PA. May, 2015.

2015 *Introduction to Taxonomy and Evolution*. Lecture presented to *Zooarchaeology*. Instructor: Dr. Alexandra Klales. Mercyhurst University, Erie, PA. February, 2015.

2015 *Ethics in Anthropology*. Lecture presented to *Human Skeletal Biology I*. Instructor: Dr. Alexandra Klales. Mercyhurst University, Erie, PA. 2015

**Research Experiences**

2019 **Graduate Research Assistant:** *Impact of psychosocial stress and physical activity on inflammatory profiles in college students*. Undergraduate Research Consultant Team, Department of Anthropology, University of North Carolina at Chapel Hill, Human Biology Laboratory

2018 **Graduate Research Assistant:** *Pilot study on the effect of physical activity, psychosocial stress, and sleep on inflammation*. Undergraduate Research Consultant Team, Department of Anthropology, University of North Carolina at Chapel Hill, Human Biology Laboratory

2017 **Co-Investigator:** *Physiological and psychological occupational stress among Alaska commercial salmon fishermen*. Graduate research project, Department of Anthropology, University of North Carolina at Chapel Hill, Human Biology Laboratory

2016 **Principal Investigator:** *Ordinal and metric methods for adult age estimation using vertebral osteophytosis*. Masters Thesis, Department of Applied Forensic Sciences Mercyhurst University, Forensic Anthropology Laboratory

**Professional Service**

2017-Pres. Appropriations Committee Chair, UNC-CH Graduate Student Federation

2017-Pres. Senator- Anthropology, UNC-CH Graduate and Professional Student Federation

2017-Pres. Social Chair, UNC-CH Society for Anthropology Students

2016-Pres. Student Affiliate, American Association of Human Biology

2016-Pres. Member, University of North Carolina Human Biology Lab

2016-Pres. Member, University of North Carolina Society for Anthropology Students

2014-Pres. Student Affiliate, American Academy of Forensic Sciences

2014-Pres. Student Affiliate, American Association of Physical Anthropologists

2014-Pres. Co-Secretary, American Academy of Forensic Sciences Young Forensic Scientists Forum

2014-2016 Deputy Quality Assurance Manager, Mercyhurst Forensic Laboratory

- 2014-2016 Member, Mercyhurst University Forensic Anthropology Lab  
 2010-2014 Member, Mercyhurst University Forensic Sciences Lab  
 2013-2016 Member, Mercyhurst University Forensic Search and Recovery Team

### **Professional Experiences**

- 2016-Pres. **Teaching Assistant**, Department of Anthropology, University of North Carolina  
 Assist instructor in all course aspects. This includes creating and proctoring exams, grading all coursework, holding office hours, and addressing all questions and concerns from students. Also, acting as the instructor for recitation sections comprising of 20-25 students.
- 2016-2019 **Student Athlete Tutor**, Academic Support Program for Student Athletes, University of North Carolina at Chapel Hill  
 Conducting weekly individual and group study sessions for student athletes in a variety of anthropology and biology courses. Study sessions focus on material comprehension, retention, and application.
- 2017 **Instructor**, Duke University Talent Identification Program at Rice University  
 Created and designed course for 25 talented and gifted high school students. Was responsible for teaching an entire semesters worth of material in three weeks.
- 2016 **Expert Witness**, People vs. Cal Harris  
 Hired as scientific, expert witness in murder trial. Testified to the forensic archaeological recovery of a fire pit and to the evidence recovered from the excavation.
- 2014-2016 **Graduate Assistant**, Mercyhurst University  
 Assist with all forensic cases under the supervision of two board certified forensic anthropologists. This includes every aspect of casework including: scene recovery, maceration, estimation of biological profile, photography, trauma analysis, taphonomic analysis, and case management.
- 2015 **Archaeology Team Member**, The Archaeology Site of Atapuerca - UNESCO World Heritage Site, Atapuerca, Spain  
 Assisted with the excavation in the Portalon site at Atapuerca. Excavated a Roman floor and Neolithic fire pit. Also assisted with all lab activities including: cleaning, sorting, labeling, and identification.
- 2013 **Intern**, Mahoning County Coroner's Office, Youngstown, OH  
 Assisted with all internal and external examinations through body preparation, biological specimen collection, organ handling, and dissection. Additionally, acquired photographic and written crime scene documentation, talked with families, collected evidence, and performed office duties.

### **Professional Skills**

**Research Methods:** Dried blood spot collection, saliva collection, enzyme immunoassay, adult anthropometry

**Proficient In:** Microscribe digitizer, 3 Skull software, Microsoft Office Suite, ESRI ArcGIS, electronic total station (Nikon Models), survey-grade GPS/GNSS (Trimble Models), FORDISC 3.1, R Statistical package, JMP Pro statistical package, Adobe Photoshop, digital photography