

Edward B. Quinn

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EDUCATION

University of Florida – Gainesville

PhD & MPH Student, Anthropology; Started August 2018

Focus: Biocultural Anthropology

Adviser: Connie Mulligan, Ph.D.

University of Alabama – Tuscaloosa

Master of Arts, Anthropology; May 2016

Focus: Biocultural Medical Anthropology

Adviser: Jason DeCaro, Ph.D.

University of Wisconsin – La Crosse

Bachelor of Science, Biology; May 2011

Minors: Anthropology; Archaeological Studies

RESEARCH EXPERIENCE

Graduate Research Assistant – Mulligan Lab

August 2018 – Present

- Preparation and analysis of a DNA methylation dataset in R. Supervision of ongoing DNA extraction for a long-term project including training five undergraduate students in DNA extraction.

Assistant Research Specialist at the Morgridge Institute for Research

September 2016 – June 2018

- Assisted in the development of a model organism to study stem cells and regeneration. Gene expression screening, *in vitro* experimentation including RNAi, rodent handling, and maintenance of a tapeworm lifecycle. Results presented at the Scientific Advisory Board meeting in Madison, WI on June 12, 2017.

Research Associate – Human Biomarkers Research Assistant

May 2016 – August 2016

- Assayed physiological markers of autonomic and immune function in a biological wet lab setting.

Head Research Assistant on PowerPaths ACF Grant Project – Co-PI: Jason DeCaro, Ph.D.
May 2015 – April 2016

- Organized data collection and management with over 50 undergraduate research assistants at 11 different research sites. Supervised the collection of saliva samples, electrocardiogram data, galvanic skin response data, blood pressure, height, and weight. Gained experience assaying saliva samples for cortisol and alpha amylase.

Lead Research Assistant on PowerPaths ACF Grant Project – Co-PI: Jason DeCaro, Ph.D.
August 2014 – December 2014

- Led undergraduate data collection teams at field sites around Western Alabama. Collected saliva samples, electrocardiogram data, galvanic skin response data, blood pressure, height, weight, and interviewed preschool children.

PUBLICATIONS

Quinn EB, LeLaurin JH, Freytes IM, Eliazar-Macke ND, Orozco T, Uphold CR. 2022. Effect of a telephone and web-based problem-solving intervention for stroke caregivers on stroke patient activities of daily living: a randomized controlled trial. *In preparation*.

Aronoff JE, **Quinn EB**, Forde AT, Glover LM, Reiner A, McDade TW, Sims M. 2021. Perceived discrimination is associated with the distribution of innate and adaptive immune cells: Evidence from the Jackson Heart Study. *Submitted*.

Rozario T, **Quinn EB**, Wang J, Davis RA, Newmark PA. 2019. Region-specific regulation of stem cell-driven regeneration in tapeworms, *eLife* 2019; 8:e48958 DOI: 10.7554/eLife.48958

CONFERENCE PRESENTATIONS

“Gene expression in placental tissue compared with gene expression in venous blood from mothers and newborns in the Democratic Republic of Congo”

Hsiao CJ, Walters AC, **Quinn EB**, Maisha F, Mulligan CJ. Abstract presented at the American Association of Physical Anthropology Meeting 2021.

“Testing for epigenetic selection in newborns of high stress-exposed mothers in the Democratic Republic of Congo”

Quinn EB, Clukay CJ, Rodriguez D, Nevell LD, Maisha FM, Kertes DA, Mulligan CJ. Abstract accepted for the Human Biology Association Meeting 2020.

“Epigenetics, gene expression and stress in mothers and offspring in the Democratic Republic of Congo: Biocultural investigation of the intergenerational effects of stress”

Mulligan CJ, Maisha FM, Clukay CJ, Hsiao C, Rej P, Escoffier N, **Quinn EB**, Nevell LD, Kertes DA. Podium presented at American Association of Physical Anthropology Meeting 2019.

“Perceived discrimination differentially associated with inflammation depending on self-reported race/ethnicity”

Quinn EB, DeCaro JA. Poster presented at the Human Biology Association Meeting 2019.

“Hymenolepis diminuta: a parasite model for stem cells and regeneration”

Rozario T, **Quinn EB**, McDonald JR, Newmark PA. Podium presented at the North American Planarian Meeting 2017.

“Conservation of planarian neoblast markers in the tapeworm *Hymenolepis diminuta*”

Quinn EB, Rozario T, Newmark PA. Poster presented at the North American Planarian Meeting 2017.

“Discrimination, cultural consonance, and cell-mediated immunity among college students”

Quinn EB, DeCaro JA. Poster presented at the Human Biology Association Meeting 2016.

TEACHING EXPERIENCE

Chungdahm April English Teacher – Pohang, South Korea

August 2012 – August 2013

- Taught up to 6 English classes per day to Korean children. Responsibilities included: evaluation, classroom management, effective delivery of lessons, facilitating creativity, etc.

American Language and Culture Teaching Assistant – Merida, Spain

October 2011 – May 2012

- Designed and executed class activities to help teach English to rural elementary and high school students in Spain. Funded by an education grant from the Junta de Extremadura.

Anatomy and Physiology Laboratory Teaching Assistant

September 2010 – December 2010

- Demonstrated anatomical structures on cadavers to undergraduate students throughout the semester.

Mississippi Valley Archaeology Center Public Field School Teaching Assistant

Director: Dr. Constance Arzigian

July 2009 & 2010

- Supervised a one-week archaeological experience for the public in which participants learned and used basic archaeological excavation techniques to do fieldwork in Western Wisconsin.

University of Wisconsin – La Crosse Archaeology Field School Teaching Assistant

Director: Dr. David Anderson

May – July 2009 & 2010

- Supervised a five-week undergraduate archaeological field school. Helped to teach basic field techniques and laboratory analyses to undergraduate students.

Introduction to Biological Anthropology – Teaching Assistant

September 2009 – December 2009

- Attended lectures and held review session for students in this introductory biological anthropology course.

SKILLS

Molecular Biology Laboratory Techniques

- Cloning, gene expression analysis using mRNA *in situ* hybridization, *in vitro* experiments including RNAi, rodent handling, DNA extraction, etc.

Statistical Analyses

- R statistical software; analysis of large datasets using Bioconductor packages.

Spanish

- Excellent reading and speaking ability. Can converse easily with native speakers.

Teaching

- Experience teaching biology, anthropology, and English in international settings.

FUNDING AWARDS

Elizabeth Eddy Summer New Graduate Student Research Grant 2019	\$2,000
Graduate Student Council Travel Award 2019	\$300
Graduate School Preeminence Award (2018-2022)	\$35,000
Graduate Research Assistantship 2015-2016	\$15,000
McNair Graduate Fellowship 2014-2015	\$16,667
Graduate Research Assistantship Fall 2014	\$3,500
College of Arts and Sciences Student Research and Travel Funding	\$200
The Graduate School Research and Travel Funding	\$300
Tide Together Research and Travel Funding	\$600