Monica H. (Ahsan) Keith, Ph.D.

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EDUCATION _____

2020	Ph.D., Anthropology, University of Missouri Dissertation: <i>Genetic variation and health in a rural Caribbean village</i> Advisor: Gregory E. Blomquist
2014	M.A., Anthropology, University of Missouri Thesis: <i>Genetic and maternal effects on neonatal survival in the western</i> <i>lowland gorilla</i> Advisor: Gregory E. Blomquist
2012	B.S., Anthropology (Biology minor), Texas State University <i>summa cum laude</i>

ACADEMIC APPOINTMENTS

2020-	Postdoctoral Scholar, University of Washington, Department of Anthropology
	Faculty mentor: Melanie A. Martin

RESEARCH PROJECTS _____

2020-	Chaco Area Reproductive Ecology (CARE) Program (Data Analyst) Directors: Melanie A. Martin, Claudia Valeggia Duties: Child growth analysis, Bayesian modeling
2016-	Shodagor Longitudinal Health and Demography Project (Data Analyst) Director: Kathrine E. Starkweather Duties: Longitudinal data analysis, Bayesian modeling
2014-	Dominica Longitudinal Health Study (Genetic Project Lead) Collaborators: Mark V. Flinn, Gregory E. Blomquist, Jared E. Decker Duties: Grant-writing, research approvals, field data collection, longitudinal data management and analysis, DNA extractions, genotype data management and analysis

2012-14	Taxonomic Investigation of Bornean Loris Variation (Research Assistant) Directors: Lori S. Eggert, Rachel A. Munds Duties: Ancient DNA extraction from museum tissue, PCR, gel electrophoresis, sequence alignment, phylogenetic reconstruction
2011	Genetics of Metabolic Health (Intern) Texas Biomedical Research Institute, Department of Genetics, Comuzzie Lab Director: Anthony Comuzzie Duties: Pedigree/genealogical analysis, cardiac data analysis, serum processing, metabolic profiling in captive baboons, uric acid assay configuration
PUBLICATIO	JNS

Keith MH, Flinn MV, Durbin HJ, Rowan TN, Blomquist GE, Taylor KH, Taylor JF, Decker JE. (in prep). Genetic ancestry and population structure in rural Dominica.

Starkweather KE, **Keith MH**, Prall SP, Alam N, Thompson ME. (in prep). Complementary, but not substitutive, paternal care leads to faster growth but smaller body size in Shodagor children. Developmental Psychology: Comparative Perspectives on Paternal Effects [Special Issue].

Keith MH, Flinn MV, Taylor JF, Taylor KH, Blomquist GE. (in prep). Genome-wide association (GWA) tests of cardiometabolic traits in a Caribbean community show potential association between Ankyrin-3 (ANK3) and body mass index (BMI).

Keith MH, Blomquist GE, Flinn MV. 2019. Anthropometric heritability and child growth in a Caribbean village: A quantitative genetic analysis of longitudinal height, weight, and BMI in Bwa Mawego, Dominica. American Journal of Physical Anthropology 170:393–403.

Starkweather KE, **Keith MH**. 2019. One piece of the matrilineal puzzle: the socioecology of maternal uncle investment. Philosophical Transactions of the Royal Society B: The evolution of female-biased kinship in humans and other mammals [Special Issue] 374: 20180071.

Starkweather KE, **Keith MH**. 2018. Estimating impacts of the nuclear family and heritability of nutritional outcomes in a boat-dwelling community. American Journal of Human Biology 30: e23105.

Ahsan MH, Blomquist GE. 2015. Modeling variation in early life mortality in the western lowland gorilla: genetic, maternal and other effects. American Journal of Primatology 77: 666–678.

GRANTS AND FELLOWSHIPS _____

2017	Research Board Grant (\$47,048), University of Missouri
2017	Dorothy (Dot) Tompkins Gelvin, Ph.D., Memorial Research Scholarship
	(\$1,500), University of Missouri
2012-16	Life Sciences Fellowship (\$33,000/year), University of Missouri

HONORS AND AWARDS _____

2020	William S. Pollitzer Student Travel Award, American Association of Physical
	Anthropologists
2019	Best Paper by a New Investigator, Evolutionary Anthropology Society,
	American Anthropology Association Annual Meeting, Vancouver, BC.
2019	Conference Travel Award (\$500), Department of Anthropology, University of
	Missouri
2017	Conference Travel Award (\$500), Department of Anthropology, University of
	Missouri
2012	Outstanding Undergraduate in Anthropology, Texas State University
2012	Golden Key International Honour Society Induction
2011	Lambda Alpha National Honor Society Induction
2010-11	University Honors Scholarship (\$1,000), Texas State University
2009-12	Texas State Achievement Scholarship (\$2,500/year), Texas State University
2009-12	Top 10% Scholarship (\$2,000/year), Texas State University
2009-12	Dean's List, Texas State University

INVITED LECTURES _____

2020	"Longitudinal Health in Two Small-Scale Societies". Presented for the
	University of Michigan, Genes for Good Research Group. February 3, 2020.

2019 "Health, Genes, and Ancestry in a Caribbean Village". Presented for the University of Pittsburgh, Department of Anthropology. January 28, 2019.

CONFERENCE PRESENTATIONS -

- 2020 **Keith MH**, Durbin HJ, Rowan TN, Blomquist GE, Flinn MV, Taylor JF, Decker JE. Genetic ancestry and demographic history of a rural Caribbean village. Abstract for the 89th annual American Association of Physical Anthropology meetings.
- 2019 Starkweather KE, **Keith MH**. Shodagor women's work and reproductive decision-making. Presented at the American Anthropology Association Annual Meetings, Vancouver, BC.

2019	Keith MH, Starkweather KE. Socio-ecological predictors of maternal uncle
	investment in the bilateral, semi-nomadic Shodagor. Presented at the 88 th
	annual American Association of Physical Anthropology meetings, Cleveland,
	OH.

- 2017 **Ahsan MH**, Starkweather KE. Effects of genetics and the nuclear family environment on Shodagor health. Presented at the 86th annual American Association of Physical Anthropology meetings, New Orleans, LA.
- 2016 **Ahsan MH,** Bain JC, Flinn MV. Heritable traits and their impacts on child health in a Caribbean village. Poster at the 85th annual American Association of Physical Anthropology meetings, Atlanta, GA.
- 2015 **Ahsan MH,** Blomquist GE. Survival of the infants: An analysis of early life mortality in captive western lowland gorillas. Presented at the 27th annual Human Behavior and Evolution Society meetings, Columbia, MO.
- 2014 **Ahsan MH,** Blomquist GE. Heritability and maternal effects of neonatal survival in the western lowland gorilla. Presented at Missouri Life Sciences Week, Columbia, MO.

TEACHING EXPERIENCE —

2016-20	University of Missouri, Department of Anthropology Introduction to General Anthropology, Instructor of Record Introduction to Multiculturalism, Instructor of Record Introduction to Biological Anthropology, Laboratory Instructor
2017-19	University of Missouri, Department of Biological Sciences General Biology Lab, Teaching Assistant Summer Transition Program Biology Lab, Teaching Assistant
2011	Texas State University, Student Learning Assistance Center Pre-medical Biology and Chemistry, Tutor

TECHNICAL SKILLS -

Laboratory

Ancient DNA extractions from tissue DNA extractions from tissue, buccal swabs PCR, gel electrophoresis Serum processing, biochemical assays Anthropometric data collection, osteological measurements

Computational and Statistical

Proficient in Program R, Linux, SAS, Systat, PEDSYS, SOLAR, and Excel; basic Perl script Longitudinal phenotype database and genotype data management Bayesian modeling, mixed models, multivariate analysis Pedigree analysis, heritability estimation Admixture dating and analysis Genome-wide association studies Phylogenetic reconstructions, comparative methods

PROFESSIONAL MEMBERSHIPS —

American Association of Physical Anthropologists American Society of Human Genetics Human Behavior and Evolution Society