

Srishti Sadhir | Curriculum Vitae
Evolutionary Anthropology | Duke University
Biological Sciences Building, Durham, NC 27708
srishti.sadhir@duke.edu

Education

- 2020-Present **Ph.D. Candidate**, Evolutionary Anthropology
Duke University, Durham, NC
Committee: Herman Pontzer, Ph.D. (chair); Susan C. Alberts, Ph.D.; Charles L. Nunn, Ph.D.; Leanne M. Redman, Ph.D.; Sarahn M. Wheeler, M.D.
- 2016-2020 **B.A.**, Ecology and Evolutionary Biology, Anthropology
with Honors and University Scholar distinction, *summa cum laude*
University of Connecticut, Storrs, CT
Thesis: *An Archaeological Study of Human Hunting Adaptations at Wadi Madamagh, Jordan during the Last Glacial Maximum*
Committee: Natalie D. Munro, Ph.D. (chair); Richard Sosis, Ph.D.; Susan Z. Herrick, Ph.D.

Additional Training

- 2023-2024 **Duke Scholars in Molecular Medicine Program:**
Endocrinology, Metabolism, and Cardiovascular Disease track
Duke Clinical & Translational Science Institute
Duke University, Durham, NC
- 2021-2024 **Graduate Certificate**, Duke Global Health Institute
Duke University, Durham, NC

Awards, Fellowships, and Grants

- 2023-Present Wenner-Gren Foundation Dissertation Fieldwork Grant, \$16,400
- 2023-Present NSF Doctoral Dissertation Research Improvement Grant; \$27,286
- 2023-Present The Leakey Foundation Research Grant; \$13,022
- 2021-Present NSF Graduate Research Fellowship Program (GRFP); \$138,000
- 2023-2024 Triangle Center for Evolutionary Medicine Research Award; \$9,478
- 2021-2024 Duke Lemur Center Director's Fund; \$8,000
- 2024 Duke Graduate School Conference Travel Award; \$750
- 2023-2024 Evolutionary Anthropology Graduate Student Mentorship Award; \$1,000
- 2023 Duke Graduate School Conference Travel Award; \$750
- 2022-2023 Evolutionary Anthropology Graduate Student Mentorship Award; \$1,000
- 2022 Summer Research Fellowships for Second-Year Ph.D. Students; \$8,250

2022	Evolutionary Anthropology Conference Travel Award; \$750
2021-2022	Evolutionary Anthropology Graduate Student Mentorship Award; \$1,000
2021	Summer Research Fellowships for First-Year Ph.D. Students; \$6,500
2020-2021	Evolutionary Anthropology Graduate Student Mentorship Award; \$1,000
2020	Honorable Mention, NSF Graduate Research Fellowship Program (GRFP)
2020	Natural History Research Experiences (NHRE) Travel Award, Smithsonian Institution; \$900
2020	Office of Undergraduate Research Travel Award, University of Connecticut; \$387
2019	NSF Research Experiences for Undergraduates (REU) Recipient, funded through the Smithsonian Women's Committee (SWC); \$6,350
2018	Undergraduate Student Poster Award: Fields of Conflict Conference; \$300

Publications

<i>In review</i>	Sadhir, S. , McGrosky, A., Swanson, Z.S., Tavormina, A., Tomechko, K., Pontzer, H. Physical activity and heat stress shape water needs in pregnant endurance athletes. <i>Evolution, Medicine, and Public Health</i> .
<i>In review</i>	Sadhir, S. , McGrosky, A., Ford, L.B., Nzunza, R., Wemanya, S.N., Mashaka, H., Kinyanjui, R., Ndiema, E., Braun, D.R., Rosinger, A.Y., Pontzer, H. Physical activity and pregnancy norms among Daasanach women in Northern Kenya. <i>American Journal of Human Biology</i> .
2024	Rosinger, A.Y., Stoler, J., Ford, L.B., McGrosky, A., Sadhir, S. , Ulrich, M., Todd M., Bobbie, N., Nzunza, R., Braun, D.R., Ndiema, E.K., Douglass, M.J., Pontzer, H. Mobility ideation due to water problems during historic 2022 drought associated with livestock wealth, water and food insecurity, and fingernail cortisol concentration in northern Kenya. <i>Social Science & Medicine</i> . https://doi.org/10.1016/j.socscimed.2024.117280 .
2023	Parker, C.H., Sadhir, S. , Swanson, Z., McGrosky, A., Hinz, E., Urlacher, S., and Pontzer, H. Effect of influenza vaccination on resting metabolic rate and c-reactive protein concentrations in healthy young adults. <i>PLOS ONE</i> . https://doi.org/10.1371/journal.pone.0295540
2023	Sadhir, S. and Pontzer, H. Impact of energy availability and physical activity on variation in fertility across human populations. <i>Journal of Physiological Anthropology</i> . https://doi.org/10.1186/s40101-023-00318-3

- 2022 Klasson, C., **Sadhir, S.**, and Pontzer, H. Daily physical activity is negatively associated with thyroid hormone and immune system markers among men and women in the NHANES dataset. *PLOS ONE*.
<https://doi.org/10.1371/journal.pone.0270221>
- 2021 **Sadhir, S.**, Eller, A.R., Canington, S.L., and Sholts, S.B. Investigating factors of metabolic bone disease in baboons (*Papio spp.*) using museum collections. *American Journal of Biological Anthropology*. <https://doi.org/10.1002/ajpa.24450>
- 2020 **Sadhir, S.**, al-Nahar, M., Olszewski, D.I., Petrillo, A., and Munro, N.D. Human hunting adaptations at Wadi Madamagh, Jordan at the peak of the Last Glacial Maximum. *Journal of Archaeological Science: Reports*.
<https://doi.org/10.1016/j.jasrep.2020.102661>

Presentations

- 2024 **Sadhir, S.**, McGrosky, A., Swanson, Z.S., Tavormina, A., Tomechko, K., Pontzer, H. Maternal metabolic limits in endurance athletes during pregnancy. *71st Annual Meeting of the American College of Sports Medicine*, Boston, MA [thematic poster].
- 2024 **Sadhir, S.**, McGrosky, A., Swanson, Z.S., Tomechko, K., Pontzer, H. Maternal metabolic limits in endurance athletes during pregnancy. *49th Annual Meeting of the Human Biology Association* (p.66), Los Angeles, CA [podium].
- 2024 **Sadhir, S.** Clinical perspectives on maternal energy metabolism during pregnancy in endurance athletes. *DSMM Think Translationally Seminar*, Durham, NC [lecture].
- 2023 **Sadhir, S.**, and McGrosky, A. Methods in metabolism and health. *TriCEM: Evolutionary Medicine Summer Institute*, Raleigh, NC [lecture].
- 2023 **Sadhir, S.**, McGrosky, A., Ford, L.B., Nzunza, R., Wemanya, S.N., Mashaka, H., Kinyanjui, R., Ndiema, E., Braun, D.R., Rosinger, A.Y., Pontzer, H. Physical activity and pregnancy norms among Daasanach women in Northern Kenya. *48th Annual Meeting of the Human Biology Association* (p.45), Reno, NV [podium].
- 2022 **Sadhir, S.** and Pontzer, H. Survey of exercise behavior and pregnancy outcomes in highly active women. *91st Annual Meeting of the American Association of Biological Anthropologists* (p.158), Denver, CO [poster].
- 2021 **Sadhir, S.** and Pontzer, H. Interbirth interval and age at first reproduction in populations with disparate energy status. *90th Annual Meeting of the American Association of Physical Anthropologists* (p.91), virtual format [poster and panel discussion].
- 2020 **Sadhir, S.**, Eller, A.R., Canington, S.L., and Sholts, S.B. Investigating the relationship between skin color and vitamin D deficiency in baboons (*Papio*). *89th Annual Meeting of the American Association of Physical Anthropologists*, p.244, virtual format [poster].

- 2020 **Sadhir, S.** and Munro, N.D. An Archaeological Study of Human Hunting Adaptations at Wadi Madamagh, Jordan during the Last Glacial Maximum. *Frontiers in Undergraduate Research Exhibition*, Storrs, CT [poster].
- 2019 **Sadhir, S.**, Eller, A.R., Canington, S.L. and Sholts, S.B. Skin Pigmentation Variability in Baboons: Implications for Vitamin D Deficiency. *Northeastern Evolutionary Primatology Meeting*, Amherst, MA [poster]. *Fall Frontiers in Undergraduate Research Exhibition*, Storrs, CT [poster]. *NHRE Research Symposium*, National Museum of Natural History, Smithsonian Institution, Washington, DC [poster].
- 2018, 2019 **Sadhir, S.** and McBride, K.A. Musket Ball Analysis of the 17th Century Pequot War in Southern New England. *Frontiers in Undergraduate Research Exhibition*, Storrs, CT [poster]. *Fields of Conflict Conference*, Mashantucket, CT [poster].

Research Projects and Field Experience

- 2022-Present Maternal Metabolic Limits in Pregnant Endurance Athletes; Evolutionary Energetics and Ecology Lab, Durham, NC—Advisor: H. Pontzer
- 2022-Present Daasanach Health & Life History Project; Koobi Fora Field School, Kenya—Advisors: H. Pontzer & A.Y. Rosinger
- 2021-Present Reproductive Energetics & Neuroendocrinology of Ruffed & Ring-Tailed Lemurs; Duke Lemur Center, Durham, NC—PIs: S. Sadhir & A. Schrock
- 2021-Present Survey of Physical Activity and Health Outcomes during Pregnancy; Evolutionary Energetics and Ecology Lab, Durham, NC—Advisor: H. Pontzer
- 2020-2023 Energy Availability and Fertility Variation across Human Populations; Evolutionary Energetics and Ecology Lab, Durham, NC—Advisor: H. Pontzer
- 2019-2020 Baboon (*Papio*) Phenotypic Diversity and Health Survey; Collections studied: Smithsonian National Museum of Natural History (Washington, DC), Yale Peabody Museum of Natural History (New Haven, CT), Harvard Museum of Comparative Zoology (Cambridge, MA)—Mentors: S.B. Sholts, A.R. Eller
- 2017-2020 Human hunting adaptations at Wadi Madamagh; Zooarchaeology Lab, Storrs, CT—Advisor: N.D. Munro
- 2019 NSF REU: Natural History Research Experiences (NHRE), Environmental Mismatches in Primates and Humans: Anthropogenic Settings and Impacts Survey (EMPHASIS); Washington, DC—Mentors: S.B. Sholts, A.R. Eller
- 2018 Field School Pozzeveri in Medieval Archaeology and Bioarchaeology, Badia Pozzeveri, Italy—Director: A. Fornaciari

2018 Pequot War Musket Ball Assemblage Analysis; North American Archaeology Lab, University of Connecticut, Storrs, CT—Advisor: K.A. McBride

Teaching Experience

Summer 2022 Koobi Fora Field School
Human Biology: Life History Theory & Pregnancy Energetics [lecture]
Human Biology: Methods [demonstrations & trainings]
Instructor

Spring 2022 EVANTH 330: Human Evolutionary Physiology [lecture], Duke University
Teaching Assistant

Fall 2021 EVANTH 334L/736L: Human Osteology [lecture and laboratory], Duke University
Teaching Assistant, Lab Instructor

Fall 2020 Topic: Human Biological Research and Eugenics [lecture and discussion]
Graduate Seminar: *Ethics in Evolutionary Anthropology*, Duke University

Research Mentorship

Evolutionary Anthropology Graduate Student Mentorship, Durham, NC
Mentor & Committee Member – Undergraduate Honors Theses

2023-2024 Tomechko, K. (2024). Effects of physical activity patterns and barriers during pregnancy on health outcomes for women in high-income countries.

2021-2022 Parker, C. (2022). Metabolic response to influenza vaccination.

2020-2021 Klasson, C. (2021). Testing the constrained total energy expenditure hypothesis via NHANES data.

Maternal Energetics in Endurance Athletes: Data Management, Durham, NC
Supervisor

2024-Present Brown, U.
Eraniyan, A.
Kurt, A.

2023-2024 Tavormina, A.

2022-2023 Tomechko, K.

Illeret Health Clinic (IHC) Data Management, Durham, NC
Supervisor

2022-2023 Little, I.
2022-2023 Zhang, K.

Koobi Fora Field School, Kenya
Mentor – Student Projects

2022 Khayota, T. (2022). Water quality & health in the Daasanach community.
2022 Bossert, M. (2022). Water sharing behavior in the Daasanach community.

Public Outreach

2020-Present Demystifying Graduate School (Panel; reoccurring), Duke University, Durham, NC
Panelist & Session Leader

2023 North Carolina Science and Engineering Fair (Region 3B), North Carolina School of Science and Mathematics, Durham, NC
Judge

2022 Lemurpalooza, Duke Lemur Center, Durham, NC
Research Volunteer

2018-2020 The Major Experience (TME), University of Connecticut, Storrs, CT
Anthropology Mentor

2016-2020 Native American Cultural Programs (NACP), University of Connecticut, Storrs, CT
Program Assistant, Planning Committee Member

2019 Yes! Teen Internship Program, National Museum of Natural History, Smithsonian Institution, Washington, DC
Undergraduate Mentor

2019 The Expert is in – Biological Anthropology Outreach, National Museum of Natural History, Smithsonian Institution, Washington, DC
Biological Anthropology Intern

2017-2018 Seacoast Science Center (SSC), Rye, NH
Naturalist, Environmental Education Intern

Professional Service

2024-Present *Reviewer, American Journal of Human Biology*
2023-Present *Reviewer, PLOS One*

2023-Present	<i>Committee Member</i> , Osteology Collections Working Group, Duke University, Durham, NC
2021-2024	<i>Associate Editor</i> , Journal of Emerging Investigators (JEI)
2021-2024	<i>Reviewer</i> , Journal of Emerging Investigators (JEI)
2021-2023	<i>Laboratory Safety Coordinator & Chemical Hygiene Officer</i> , Evolutionary Energetics and Ecology Lab, Duke University, Durham, NC
2022-2023	<i>Evolutionary Anthropology Representative</i> , Graduate & Professional Student Government (GPSG) Climate Crisis Committee, Duke University, Durham, NC
2022-2023	<i>Evolutionary Anthropology Representative</i> , Graduate & Professional Student Government (GPSG) General Assembly, Duke University, Durham, NC
2022	<i>Student Volunteer</i> , 91 st Annual Meeting of the American Association of Biological Anthropologists, Denver, CO
2022	<i>Job Talk Organizer</i> , Job Candidate Searches (Lecturer, Assistant Research Professors), Department of Evolutionary Anthropology, Duke University, Durham, NC
2021-2022	<i>Graduate & Professional Student Government (GPSG) Representative</i> , Library Council (Provost's University Committee), Duke University, Durham, NC
2021-2022	<i>Seminar Organizer</i> , Evolutionary Anthropology Talk Series (EATS), Department of Evolutionary Anthropology, Duke University, Durham, NC
2021	<i>Meeting Organizer</i> , Statistics Reading Group [weekly meetings], Department of Evolutionary Anthropology, Duke University, Durham, NC

Professional Development

2022	Grant Writing [course], Duke University
2021	Biostatistics and Epidemiology [course], Duke Global Health Institute
2021	Accelerate to Industry: Job Search Strategies [workshop series], NC State University
2021	Science and Research Communication [course], Duke University
2020	Ethics in Evolutionary Anthropology [course], Duke University

Professional Affiliations

The American College of Sports Medicine (ACSM)
Human Biology Association (HBA)
American Association of Biological Anthropologists (AABA)

Association for Women in Science (AWIS)
Duke University Women in Science and Engineering (WiSE)
Phi Beta Kappa Honor Society
Alpha Lambda Delta Honor Society

Skills and Qualifications

Languages	English (fluent, native), Hindi (proficient, native), Spanish (conversational), Punjabi (basic)
Computing	R Programming Language, advanced; ArcGIS 10.6, intermediate; Python Programming Language, beginner
Laboratory	ABB Liquid Water Isotope Analyzer Sable Systems International Promethion Metabolic Screening COSMED Quark RMR COSMED K5 Doubly labeled water methodology and analysis Wearable technology use & data management
Field	Survey design and implementation Anthropometric and cardiometabolic assessment Bioelectrical impedance analysis Finger prick blood draw for dried blood spot & point-of-care testing