

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.; Sarah 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-Present **Duke Scholars in Molecular Medicine Program:**
Endocrinology, Metabolism, and Cardiovascular Disease track
Duke Clinical & Translational Science Institute
Duke University, Durham, NC
- 2021-Present **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 Triangle Center for Evolutionary Medicine Research Award; \$9,478
- 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
- 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 prep</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>In prep</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.
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> .
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> .
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. <i>PLOS ONE</i> .
2021	Sadhir, S. , Eller, A.R., Canington, S.L., and Sholts, S.B. Investigating factors of metabolic bone disease in baboons (<i>Papio</i> spp.) using museum collections. <i>American Journal of Biological Anthropology</i> .
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. <i>Journal of Archaeological Science: Reports</i> .

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 “Marathon Moms”: Maternal Energy Metabolism during Pregnancy in 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 Patterns 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

Supervised Undergraduate Research

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

- 2022-2023 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.

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

- 2022-2023 Little, I. & 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.

Mentorship and Public Outreach

- 2023 North Carolina Science and Engineering Fair (Region 3B), North Carolina School of Science and Mathematics, Durham, NC
Judge
- 2020-2022 Demystifying Graduate School (Panel; reoccurring), Duke University, Durham, NC
Panelist & Session Leader
- 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 <i>Program Assistant, Planning Committee Member</i>
2019	Yes! Teen Internship Program, National Museum of Natural History, Smithsonian Institution, Washington, DC <i>Undergraduate Mentor</i>
2019	The Expert is in – Biological Anthropology Outreach, National Museum of Natural History, Smithsonian Institution, Washington, DC <i>Biological Anthropology Intern</i>
2017-2018	Seacoast Science Center (SSC), Rye, NH <i>Naturalist, Environmental Education Intern</i>

Professional Service

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

2021 *Meeting Organizer*, 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