

Srishti Sadhir | Curriculum Vitae
Evolutionary Anthropology | Duke University
Biological Sciences Building, Durham, NC 27708
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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

- 2023-2024 **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> .
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

2023-Present	Survey of Lifestyle and Health Outcomes during Pregnancy; Evolutionary Energetics and Ecology Lab, Durham, NC—Advisor: H. Pontzer
2022-Present	Maternal Energetics & Health 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 and Health Outcomes during Pregnancy in Athletes; 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 (<i>Papio</i>) 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] <i>Instructor</i>
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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.
2023-Present 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

2023	North Carolina Science and Engineering Fair (Region 3B), North Carolina School of Science and Mathematics, Durham, NC <i>Judge</i>
2020-2022	Demystifying Graduate School (Panel; reoccurring), Duke University, Durham, NC <i>Panelist & Session Leader</i>
2022	Lemurpalooza, Duke Lemur Center, Durham, NC <i>Research Volunteer</i>
2018-2020	The Major Experience (TME), University of Connecticut, Storrs, CT <i>Anthropology Mentor</i>
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 *Student Volunteer*, 91st Annual Meeting of the American Association of Biological Anthropologists, Denver, CO
- 2022 *Job Talk Organizer*, Job Candidate Searches (Lecturer, Assistant Research Professors), Department of Evolutionary Anthropology, Duke University, Durham, NC
- 2021-2022 *Graduate & Professional Student Government (GPSG) Representative*, Library Council (Provost's University Committee), Duke University, Durham, NC
- 2021-2022 *Seminar Organizer*, Evolutionary Anthropology Talk Series (EATS), Department of Evolutionary Anthropology, Duke University, Durham, NC
- 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