LAUREN C SPRINGS

Curriculum Vitae

Texas State University, Department of Anthropology

PROFESSIONAL APPOINTMENTS

2026- *Lecturer*, Department of Anthropology, Texas State University, San Marcos.

2025-26 *Postdoctoral Researcher in Community-Based Paleogenomics*, Department of Sociology and Anthropology, George Mason University

2023-25 *Postdoctoral Fellow*, The Kemp Lab, Department of Integrative Biology, The University of Texas at Austin

2013 *Adjunct Faculty*, Sciences Division, Northeastern Lakeview College

2012-13 *Adjunct Faculty*, Department of Anthropology, Texas State University

EDUCATION

2023 **Ph.D.**, Anthropology. The University of Texas at Austin

2012 **M.A.**, Anthropology. Texas State University, San Marcos

2008 **B.A.**, Anthropology. Texas A&M University, College Station

RESEARCH INTERESTS & SPECIALIZATIONS

Bioarchaeology; human osteology; population history; colonial archaeology; identity and ethnogenesis; genomics; ancient DNA; Belize

PUBLICATIONS

PEER-REVIEWED JOURNAL MANUSCRIPTS AND CHAPTERS (9):

2023 **Springs LC**, Garber JF. The British in the Bay: Occupational Stress and Biological Disparities. *Research Reports in Belizean Archaeology* 18:301-311.

2023 Balentine CM, Alfonso-Durruty M, Reynolds AW, Vilar M, Morello F, San Román M, **Springs LC**, Smith RWAS, Archer SM, Mata-Míguez J, Wing N, Bolnick DA. Evaluating population histories in Patagonia and Tierra del Fuego, Chile, using ancient mitochondrial and Y-chromosomal DNA. *American Journal of Biological Anthropology* 180:144-161.

2021 Smith RWA, **Springs LC**, Reynolds AW, Bolnick DA. Making Kin in a Postgenomic World: Indigenous Belonging after the Genome. In: Daniels In and Beyond the Law. Kermoal and Andersen, eds.

2017 Bentley JH, Garber JF, **Springs LC**. Charmed Objects and African Influence in the Cemetery at St. George's Caye, Belize. *Research Reports in Belizean Archaeology* 14:373-378.

2016 Bolnick DA, Raff JA, **Springs LC**, Reynolds AW, and Miró-Herrans AT. Native American Genomics and Population Histories. *Annual Review of Anthropology.* 45: 319-340.

2016 **Springs LC**, Garber JF, Bolnick DA, Sullivan LA, Bentley JH. The Early English Cemetery on St. George's Caye Revisited: DNA analysis and

Reassessment of Burial Counts and Chronology. *Research Reports in Belizean Archaeology* 13:361-368.

2014 Garber JF, Sullivan LA, Awe JA, **Springs LC**, and Elverson M. Murder Bottles, Grey Matter and Treasure: Results of the 2012 Field Season on St. George's Caye. *Research Reports in Belizean Archaeology* 11:371-376.

2013 **Springs LC**. Results of the skeletal analysis for the 2011 St. George's Caye archaeological field season. *Research Reports in Belizean Archaeology* 10: 319-327.

CHAPTERS IN ARCHAEOLOGICAL REPORTS (10):

2019 Bentley JH, **Springs LC**, Garber JF. Field Investigations on St. George's Caye: Results on the 2018 Field Season. In: Garber JF, ed. The St. George's Caye Archaeology Project: results of the 2018 field season.

2018 Bentley JH, **Springs LC**, Garber JF. Field Investigations on St. George's Caye: Results on the 2017 Field Season. In: Garber JF, ed. The St. George's Caye Archaeology Project: results of the 2017 field season.

2017 Bentley JH, Garber JF, **Springs LC**, Sullivan LA. Field Investigations on St. George's Caye: Results on the 2016 Field Season. In: Garber JF, ed. The St. George's Caye Archaeology Project: results of the 2016 field season.

2017 **Springs LC**. Results of the Skeletal Analysis for the 2015 St. George's Caye Archaeological Field Season. In: Garber JF, ed. The St. George's Caye Archaeology Project: Results of the 2016 field season.

2016 Bentley JH, Garber JF, **Springs LC**, Sullivan LA. Field Investigations on St. George's Caye: Results on the 2015 Field Season. In: Garber JF, ed. The St. George's Caye Archaeology Project: Results of the 2015 field season.

2015 Bentley JH, **Springs LC**, Garber JF, Sullivan LA. Field Investigations on St. George's Caye: Results on the 2014 Field Season. In: Garber JF, ed. The St. George's Caye Archaeology Project: Results of the 2014 field season.

2014 **Springs LC**. Results of the skeletal analysis for the 2013 field season on St. George's Caye. In: Garber JF, ed. The St. George's Caye Archaeology Project: Results of the 2013 field season.

2014 Elverson MT, Garber JF, Sullivan LA, **Springs LC**. Investigations on St. George's Caye: results of the 2013 field season. In: Garber JF, ed. The St. George's Caye Archaeology Project: Results of the 2013 field season.

2013 **Springs LC**. Results of the skeletal analysis for the 2012 field season on St. George's Caye. In: Garber JF, ed. The St. George's Caye Archaeology Project: Results of the 2012 field season.

2012 **Springs LC**. Results of the skeletal analysis for the 2011 field season on St. George's Caye. In: Garber JF, ed. The St. George's Caye Archaeology Project: Results of the 2011 field season.

RESEARCH FUNDING, FELLOWSHIPS, & AWARDS [$102,198 total]

RESEARCH FUNDING:

2025 [$25,000] Wenner Gren Foundation, Post PhD Research Grant
Legacies of Maya Resistance: Genomic Signatures of Indigenous Persistence in Northern Belize

2018 [$12,025] Wenner Gren Foundation, Dissertation Fieldwork Grant
Negotiating Identity and Change in Colonial Belize: An Evaluation of Genomic Signatures of British Colonialism

2018 [$16,985] National Science Foundation, Doctoral Dissertation Research Grant
PI: Deborah Bolnick, Co-PI: Springs
Genomics in a Colonial Setting

2016 [$2,000] Summer Research Award, The University of Texas at Austin

2012 [$1,500] Freeman Fellows Graduate Research Award, Texas State University

FELLOWSHIPS:

2019 [$42,863] University Graduate Continuing Fellowship, The University of Texas at Austin

2011 [$1,025] Grady Early Graduate Anthropology Fellowship, Texas State University

AWARDS:

2017 [$400] Professional Development - The University of Texas at Austin

2015 [$400] Professional Development - The University of Texas at Austin

RESEARCH EXPERIENCE

ARCHAEOLOGICAL PROJECTS:

2021+ **Corozal Population History Project**
Core research team, archaeogenetic analysis.
Collaborators*:* Rick Smith, Austin Reynolds, Angie Locker, Arlen Chase, Diane Chase, Melissa Badillo, Adela Pederson-Vallejos, Roy Rodriguez, Genara Cano, To'one Masehualoon.

2011+ **St. George's Caye Archaeological Project**
Project osteologist, lab manager, and field instructor.
Collaborators*:* James Garber (PI), Lauren Sullivan, Heath Bentley, Matthew Elverson.

2012 **Cultural Resource Management**. Coastal Environments, Inc. Site #: 41HR796, *On-site* osteologist, PI: Richard Weinstein

2010 **Historic Sites Division, Texas Historical Commission**, *Intern*, Supervisor: Kerri Wilhelm

GENOMICS RESEARCH:

2023-25 **Stories of Ancient Resilience** | Planet Texas 2050
Researcher and subject matter expert in aDNA methods and analysis.
Collaborators*:* Melissa Kemp (PI), Adam Rabinowitz (PI), Alexandra Boville, Tianyi Xu.

2016-19 **Identifying Genomic Signatures of Evolutionary and Cultural Change in Native Americans** | National Science Foundation
aDNA Research Technician.
Collaborators: Deborah Bolnick, David Hurst Thomas, Clark Spencer Larsen, Laurie Rietsema, Carey Garland, Chris Stojanowski

2013-19 **Bolnick Molecular Anthropology Labs** | UT Austin
Research Collaborator on various projects, Student Mentor
Collaborators: Deborah Bolnick, Rick Smith, Austin Reynolds, Samantha Archer, Christina Balentine

2015-16 **Uncovering the Genetic Legacy of Fueguians and Patagonians through Ancient DNA Analyses** | National Geographic Society
aDNA Research Technician
Collaborators: Marta Alfonso-Durruty, Miguel Vilar, Deborah Bolnick

2015 **Shiloh Methodist Cemetery Burials** | Texas State University
aDNA Research Technician
Collaborators: Daniel Wescott, Deborah Bolnick, Cassie Skipper

FORENSIC EXPERIENCE:

2010-12 **Grady Early Forensic Anthropology Research Laboratory**, *graduate researcher*

2010-12 **Forensic Anthropology Research Facility at Texas State University**, *graduate researcher*

PROFESSIONAL DEVELOPMENT

2023 *Reproducible Science Institute*
Texas Advanced Computing Center – Austin, TX

2018 *Introduction to Next Generation Sequencing Analysis*
Texas Advanced Computing Center – Austin, TX

2018 *Introduction to TACC* - [Unix/bash, TACC clusters]
Texas Advanced Computing Center – Austin, TX

2018 *Introduction to Unix* - [Unix/bash, macOS terminal]
Texas Advanced Computing Center – Austin, TX

2012 *Application of Genomics to Anthropological Research (AGAR)*
Texas Biomedical Research Institute – San Antonio, TX

2011 *Forensic Entomology Workshop*
Texas A&M University & Texas State University.

TEACHING RECORD

INSTRUCTOR OF RECORD:

Texas State University	ANTH 3381: Human Osteology ANTH 3319: Human Growth and Development
Northeast Lakeview College	ANTH 2301: Physical Anthropology

TEACHING ASSISTANTSHIPS:

University of Texas at Austin	ANT 301: Introduction to Physical Anthropology ANT 349C: Human Variation ANT 349D: Anthropological Genetics CMS 264M: Internships in the Sciences
Texas State University	ANTH 2414: Introduction to Physical Anthropology
Texas A&M University	ANTH 4340: Human Osteology

PROFESSIONAL DEVELOPMENT INSTRUCTION:

2018 **Skeletal Death Investigation**, Texas Engineering Extension Service, Forensic Anthropology Center at Texas State University

2017 **Human Remains Recovery,** Forensic Anthropology Center at Texas State University, San Marcos

2016 **Skeletal Death Investigation**, Texas Engineering Extension Service, Forensic Anthropology Center at Texas State University

2014 **Summer Internship for Native Americans in Genomics (SING) Workshop**, The University of Texas at Austin

2012-14 **Skeletal Death Investigation**, Texas Engineering Extension Service, Forensic Anthropology Center at Texas State University

2011-13 **Human Remains Recovery,** Forensic Anthropology Center at Texas State University

CONFERENCES PANELS ORGANIZED

2017 *Crossing the Divide: Biocultural and Biosocial Approaches to Anthropology*. Co-organized with Deborah Bolnick. American Anthropological Association Annual Meeting. December, Washington, DC.

CONFERENCE PRESENTATIONS (*invited presentations)

2025 Xu T, **Springs LC,** Greene H, Kemp ME. Past ranges and future habitats: Paleogenomic and ecological insights into *Gopherus* tortoise conservation. Crossing the Paleontological-Ecological Gap & Conservation Paleobiology Symposium. (July, Zürich, Switzerland)

2024 Negash A, **Springs LC**, Locker AJ, Reynolds AW, Smith RW. Assessing Patri/Matrilocal Residence Across Generations among Yucatec Maya People in the Corozal District, Belize. American Association of Biological Anthropologists Annual Meeting. (March, Los Angeles, California)

2023 Amato MM, Locker AJ, Chase AF, Chase DZ, Chase AS, Badillo M, **Springs LC**, Tung T, Reynolds AW, Smith RW. A Stable Isotopic Analysis of Diet across Three Millennia of Maya Settlement at Santa Rita Corozal, Belize. American Association of Biological Anthropologists Annual Meeting. (April, Reno, Nevada)

2022 **Springs LC**, Garber JF. Osteological stress, labor, and inequality at St. George's Caye. Belize Archaeology and Anthropology Symposium Annual Meeting. (June, San Ignacio, Belize)

2022 Balentine CM, Alfonso-Durruty M, Reynolds AW, Vilar M, Morello F, San Román, **Springs LC**, Bolnick DA. Tracing demographic histories through time using ancient DNA in Chilean FuegoPatagonia. (March, Denver, Colorado)

2021 Balentine CM, Alfonso-Durruty M, Reynolds AW, Vilar M, Morello F, San Román M, **Springs LC**, Smith RWA, Mata-Míguez, Wing N, Bolnick DA. Exploring the population history of Patagonia & Tierra del Fuego, Chile, using ancient DNA. International Symposium on Biomolecular Archaeology. (June, Virtual)

2021 Archer SM, **Springs LC**, Bolnick DA. Investigating the health status of 19th century African Americans: multi-sited evidence from Texas. (April, Virtual)

2019 Garber JF, **Springs LC**, Bentley JH, Sullivan LA, Elverson M, Bolnick DA. Pirates, Turtles, Regiments, and Burials: Ten Years of Archaeology at St. George's Caye. Belize Archaeology and Anthropology Symposium Annual Meeting. (June, San Ignacio, Belize)

2019 Crespo F, Cummins T, Merchant M, Klein J, **Springs LC**, Bolnick DA, Larsen CS, Thomas DH. Ancient proteomics analysis in the early contact period, St. Catherines Island, Georgia. American Association of Physical Anthropologists Annual Meeting. (March, Cleveland, Ohio)

2018 *__Springs LC__, Larsen CS, Thomas DH, Semon AM, Blair EH, Rohland N, Reich D, Bolnick DA. Continuity and aggregation at Mission Santa Catalina de Guale: Archaeological and genetic interpretations of regional population history in coastal Georgia. American Association of Physical Anthropologists Annual Meeting. (April, Austin, Texas)

2018 Mavroudas SR, **Springs LC**. Bone Histology Age-at-Death Estimates and Associated Taphonomic Changes at St. George's Caye, Belize. American Association of Physical Anthropologists Annual Meeting. (April, Austin, Texas)

2017 *__Springs LC__, Garber JF. Ethnogenesis in the colonial past: Gathering biocultural traces of identity and belonging. American Anthropological Association Annual Meeting. (November, Washington DC)

2017 Garber JF, Bentley JH, **Springs LC**, Sullivan LA. Napoleonic Shakos, Michael Jackson, and the Order of the Garter: West Indian Regiments on St. George's Caye. Belize Archaeology and Anthropology Symposium Annual Meeting. (June, San Ignacio, Belize)

2017 **Springs LC**, Larsen CS, Thomas DH, Semon AM, Bolnick DA. Investigating the genetic impacts of Spanish missionization on the Guale of St. Catherine's Island, Georgia. American Association of Physical Anthropologists Annual Meeting (April, New Orleans, Louisiana)

2016 *__Springs LC__, Reynolds AW, Bolnick DA. Initial Assessment of Ancient DNA Preservation and Genetic Diversity at Santa Catalina de Guale. Southeastern Archaeological Conference Annual Meeting. (October, Athens, GA)

2016 Bentley H, Garber JF, **Springs LC**. Charmed objects and African influence in the cemetery at St. George's Caye, Belize. Belize Archaeology and Anthropology Symposium Annual Meeting. (June, San Ignacio, Belize)

2016 **Springs LC**, Garber JF, Bolnick DA. Genetic analysis of a British colonial cemetery in Belize. American Association of Physical Anthropologists Annual Meeting. (April, Altanta, GA)

2015 *__Springs LC__, Bolnick DA, Garber JF. Missing histories of colonial and diasporic genetic research. American Anthropological Association Annual Meeting. (November, Denver, CO)

2015 Reynolds AW, **Springs LC**, Mata-Miguez J, Bolnick DA. An examination of the effectiveness of several ancient DNA extraction methods. Society for Molecular Biology and Evolution Annual Meeting. (July, Vienna, Austria)

2015 **Springs LC**, Garber JF, Bolnick DA, Sullivan LA, Bentley H. The early English cemetery on St. George's Caye Revisited: DNA analysis and reassessment of burial counts and chronology. Belize Archaeology and Anthropology Symposium Annual Meeting. (June, San Ignacio, Belize)

2015 Bentley JH, Garber JF, Stanchly N, Searle L, Prince JR, Bartelink EJ, **Springs L**. Turtlers, Pirates and Trade: A History of Sea Turtle Exploitation on St. George's Caye. Belize Archaeology and Anthropology Symposium Annual Meeting. (June, San Ignacio, Belize)

2014 **Springs LC,** Mavroudas S. Histological analysis of skeletal remains at St. George's Caye, Belize. Society for American Anthropology Annual Meeting. (April, Austin, TX)

2014 Prince JR, Bartelink EJ, **Springs LC**, Garber JF, Fox G. Diet and trade in an Eighteenth Century British Colonial sample from Saint George's Caye, Belize. American Association of Physical Anthropology Annual Meeting. (April, Calgary, AB)

2013 Garber JF, Sullivan LA, Awe JA, **Springs LC**, and Elverson M. Murder Bottles, Grey Matter and Treasure: Results of the 2012 Field Season on St. George's

Caye. Belize Archaeology Symposium Annual Meeting. (June, San Ignacio, Belize)

2013 Prince JR, Bartelink EJ, **Springs LC**, Garber JF, Fox G, MacKinnon A, Kline S. Turtles, pork, and merchants: diet and identity at colonial period St. George's Caye, Belize. American Association of Physical Anthropology Annual Meeting. (April, Knoxville, TN)

2012 **Springs LC**, Garber JF. Skeletal analysis of the 2011 St. George's Caye field excavations. Belize Archaeological Symposium Annual Meeting. (June, San Ignacio, Belize)

2012 **Springs LC**, Erhart EM, Garber JF. Analysis of the cemetery at St. George's Caye, Belize. American Association of Physical Anthropology Annual Meeting. (April, Portland, OR)

2012 **Springs LC**. Genetic distance in populations of African ancestry by allele frequencies. Texas Academy of Science Annual Meeting. (March, Alpine, TX)

2011 **Springs LC,** Erhart EM. Metric analysis of individuals interred in St. George's Caye Cemetery, Belize. Texas Association of Biological Anthropologists Annual Meeting. (November, San Marcos, TX)

BIOINFORMATIC SKILLS

Environments/Languages: Unix/bash, R, RStudio, Python, Stampede/Lonestar clusters (Texas Advanced Computing Center)

COMMUNITY OUTREACH & PUBLIC SERVICE

SCHOLASTIC OUTREACH:

2024 Ann Richards School for Young Women Leaders – Kemp Laboratories Visit
2023 Hot Science Cool Talks – Kemp Laboratory Table
2018 Invited Speaker – "Applications of Bioarchaeology" (UT ANT324L course)
2017 Invited Speaker – "Osteology careers and graduate school" (UT ANT366 course)
2015 Explore UT – "Leaping Lemurs" booth by the Department of Anthropology
2014 Explore UT – "Leaping Lemurs" booth by the Department of Anthropology
2013 Invited Speaker – "Tips for a Successful Graduate School Application" (Forensic Anthropology Club, Texas State University)
2012 Invited Speaker – "Intro to Forensic Anthropology" (Westwood High School)
Invited Speaker – "Forensic Anthropology" (W Charles Akins High School)
2011 Invited Speaker – "Forensic Anthropology Center at Texas State" (Lanier HS)

PUBLIC SERVICE – FORENSIC CASEWORK:

8.21.2012	Williamson Co. Sheriff's Office, TX	[Burial Excavation and Recovery]
2.02.2012	Comal County Sheriff's Office, TX	[Surface Search and Recovery]
10.11.2011	Williamson Co. Sheriff's Office, TX	[Surface Search and Recovery]
9.09.2011	Hays County Sheriff's Office, TX	[Surface Search and Recovery]
3.31.2011	Comal County Sheriff's Office, TX	[Surface Search and Recovery]

1.13.2011 Milam County Sheriff's Office, TX [Surface Search and Recovery]

OTHER SERVICE:
2023-25 Grady Early Fellowship (review committee)

PROFESSIONAL AFFILITATIONS

Society for American Archaeologists
American Anthropological Association
American Association of Anthropological Genetics
American Association of Biological Anthropologists