

ANGELINA J. LOCKER, PhD

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EDUCATION

- 2020 The University of Texas at Austin, Ph.D. in Anthropology (Advisor: Dr. Fred Valdez, Jr.)
- 2015 The University of Texas at Austin, M.A. in Anthropology; minor: Geosciences
- 2013 California State University, Long Beach, B.A. in Anthropology, *cum laude*

PROFESSIONAL APPOINTMENTS

- 2026- Operations Director, Stable Isotope Biogeochemistry Lab, Northwestern University
- 2026- Research Assistant Professor, Department of Earth, Environmental, and Planetary Sciences, Northwestern University
- 2023-2026 Postdoctoral Research Scholar, Bioarchaeology & Stable Isotope Research Lab, Department of Anthropology, Vanderbilt University (Advisor: Dr. Tiffany A. Tung)
- 2021-2023 Postdoctoral Research Fellow, Critical Molecular Anthropology Lab, Department of Sociology and Anthropology, George Mason University (Advisor: Dr. Rick W. A. Smith)
- 2020-2021 Postdoctoral Fellow, Stable Isotope Lab, Department of Earth and Planetary Sciences, The University of Texas at Austin (Advisor: Dr. Daniel O. Breecker)

RESEARCH INTERESTS

Biocultural archaeology; migration; kinship; power; isotope geochemistry; ancient DNA; memory; place-making; mortuary archaeology; archaeological science; human-animal interaction; resilience. Geographic foci include Belize, New Mexico, and Peru.

PUBLICATIONS

Peer-Reviewed Journal Articles

- (*In Prep*) Cleary, C.D., Springs, L.C., **Locker, A.J.**, Chase, D.Z., Chase, A.F., Chase, A.S.Z., Badillo, M.M., To'one Masehualoon, García-Ortiz, H., Orozco, L., Benn Torres, J., Smith, R.W.A., and Reynolds, A.W. Ancient Mitogenomes from Belize Provide Insights into the Mobility and Migration of Ancient Communities in Mesoamerica and the Caribbean. To be submitted to *Genome Biology and Evolution*. 100% drafted. Waiting on co-author revisions.
- (*In Prep*) **Locker, A.J.**, Cunningham, T., Sayre, M., Rosenfield, S., Shapiama, E.E.A., Baker, L.J., He, J., Koss, S., Rick, J.W., and Tung, T.A. Stable Isotope ($\delta^{13}\text{C}$, $\delta^{18}\text{O}$) Analyses of Camelid Enamel Carbonates from Chavín de Huántar, Peru: Implications for

Diet, Mobility, and Human–Animal Interactions. To be submitted to *Journal of Archaeological Science: Reports*. 100% drafted. Waiting on co-author revisions.

(In Prep) **Locker, A.J.**, Sisneros, S., Tórrez, M.A., Stone, P., Martin, D.L., Ralston, C., Osterholtz, A., Torres, P., O’Neal, A., Reis, Y.T., Carabajal, T., Landress, D.C., Baker, L.J., Cunningham, T., He, J., Koss, S., Min, E., Solecki, L., Tung, T.A., and Smith, R.W.A. Colonial Foodways and Migration in the Northern Rio Grande: Bioarchaeological Insights from Belén’s Plaza Vieja. To be submitted to *American Antiquity*. 100% drafted. Waiting on co-author revisions.

(In Review) **Locker, A.J.**, Valdez, Jr., F., Badillo, M., Baker, L.J., Cunningham, T., Koss, S., Schmidt, C., Solecki, L. and Tung, T.A. Long-Term Dietary Dynamics in the Ancient Maya Lowlands: Carbon and Nitrogen Isotope Evidence from Kichpanha, Belize. Submitted to *Archaeological and Anthropological Sciences*.

2026 Baker, L. J., Alaica, A., **Locker, A.J.**, Krause, M., González, L. M., Aramburu Venegas, D.M., and Tung, T.A. Human-Camelid Interactions in the Wari Hinterlands: A stable isotopic analysis of camelid remains from Auquimarca (600-1000 CE), Huancayo, Peru. *Archaeological and Anthropological Sciences* 18: 125. DOI: [10.1007/s12520-026-02471-z](https://doi.org/10.1007/s12520-026-02471-z)

2025 **Locker, A.J.** Dearly de-parted: Ancestors, body partibility, and making place at Dos Hombres, Belize. *Journal of Anthropological Archaeology* 78: 101681. DOI: [10.1016/j.jaa.2025.101681](https://doi.org/10.1016/j.jaa.2025.101681)

2025 **Locker, A. J.**, Chase, D.Z., Chase, A.F., Chase, A.S.Z., Vallejos, A.P., Cano, G., Rodriguez, R., To’one Masehualoon NGO, Badillo, M., Baker, L.J., Tung, T. A. and Smith, R. W. A. The Maya are a People of Movement: Reconstructing Shifts in Maya Mobility from Oxygen Isotopes across Three Millenia at Santa Rita Corozal (Chactemal), Northern Belize. *American Journal of Biological Anthropology* 186(3): e70024. DOI: [10.1002/ajpa.70024](https://doi.org/10.1002/ajpa.70024)

2023 **Locker, A.J.**, Valdez, Jr., F., Breecker, D.O., Banner, J.L., Loewy, S.L., Luzzadder-Beach, S., Drake, S.M., Hyde, D.M., Trachman, R.M., and Lewis, B.S. Ancient Maya movement in the Rio Bravo Conservation and Management Area, NW Belize. *Journal of Archaeological Science: Reports* 49: 104052. DOI: [10.1016/j.jasrep.2023.104052](https://doi.org/10.1016/j.jasrep.2023.104052)

2023 **Locker, A.J.** and Drake, S. Contextualizing Human Remains in the Three Rivers Region of Belize. *Research Reports in Belizean Archaeology* (18): 469-480. DOI: [10.62064/rrba.18.40](https://doi.org/10.62064/rrba.18.40)

2023 Neuhoﬀ-Malorzo, P., **Locker, A.J.**, Luzzadder-Beach, S., Beach, T. and Valdez, Jr., F. The Role, Function, and Application of Technologies in Archaeology: Data from NW Belize. *Research Reports in Belizean Archaeology* (18): 265-275. DOI: [10.62064/rrba.18.22](https://doi.org/10.62064/rrba.18.22)

Peer-Reviewed Book Chapters

(In prep) **Locker, A.J.** Human Mobility Patterns. In *The Handbook of Contemporary Trends in Archaeological Sciences*, edited by López Varela, S.L. Springer (expected Fall 2026).

Textbooks

2020 Lab 3: Social Organization: Using Burials to Interpret Social Status. In *Conceptualizing Archaeology* by Fred Valdez. Sentia Publishing. Austin.

Lab 5: Ancient Writing Systems. In *Conceptualizing Archaeology* by Fred Valdez. Sentia Publishing. Austin.

Lab 6: Cognitive Archaeology: Symbols and Meaning through Time Status.
In *Conceptualizing Archaeology* by Fred Valdez. Sentia Publishing. Austin.

Technical Reports

- 2019 Trein, D.C., **Locker, A.J.**, Armstrong, A., and Uilke, L. "Structure 27 in Courtyard D, La Milpa: Results of the 2016 Field Season." In Research Reports from the Programme for Belize Archaeological Project, Volume 11. Occasional Papers, Number 24, edited by Trein, D.C., and Valdez, Jr., F. Center for Archaeological and Tropical Studies, The University of Texas at Austin.

RESEARCH SUPPORT

- 2026 Vanderbilt University, Graduate School, Lacy-Fischer Interdisciplinary Research Grant: *The influence of diet on stable carbon isotope offsets: Towards and integration of archaeological and paleontological datasets for improved dietary reconstructions* (PI: Katharine Walls; Co-PIs: Larisa DeSantis and Angelina Locker; \$7,500)
- 2025 National Science Foundation (#2444409): *Genomic and Isotopic Analyses of Population Interactions and Continuity* (PI: Rick Smith; \$336,902)
- 2024 Graduate Women in Science National Fellowship – Nell Mondy, Eloise Gerry, and Ariel Hollinshead Fellowship: *Evaluating drivers and consequences of Maya mobility and social change through time: A paleogenomic and isotopic approach* (\$6250)
- 2024 The Rust Family Foundation Archaeology Grants Program: *Evaluating ancient Maya place- and kin-making: An isotopic and paleogenomic approach* (\$7685)
- 2022 National Geographic Level I Grant #EC-93180R-22: *A Paleogenomic and Isotopic Assessment of 3000 years of Maya Settlement at Santa Rita Corozal, Belize* (PI: Rick W.A. Smith; \$20,000)
- 2021 National Science Foundation (#2051184): *Biological Impacts of Colonial Practices: Bioarchaeological Reconstruction of Health and Demography* (PI: Debra Martin; \$360,711)
**cancelled by Trump Administration April 2025.
- 2020 The Rust Family Foundation Archaeology Grants Program #RFF-2020-132: *The Rancho Archaeology Project (RAP) – Archaic and Preclassic Maya Developments* (\$7700; Co-PI Fred Valdez, Jr.)
- 2018 University of Texas at Austin, Office of the Vice President for Research, Planet Texas 2050 Grand Research Initiative *Population Dynamics in Premodern Societies* (\$23,242; Co-PI Fred Valdez, Jr.)
- National Geographic Society Early Career Grant #EC-229R-18: *Uncovering Ancient Maya Migrations: An Examination of Burial and Isotopic Data* (\$7350)
- The Rust Family Foundation Archaeology Grants Program #RFF-2018-51: *Unveiling Ancient Maya Migration Histories: Evidence from Stable Isotopes and aDNA* (\$5984)

- 2017 Summer Research Award, Graduate Studies Steering Committee, Department of Anthropology, The University of Texas at Austin (\$2500)
- 2016 Summer Research Award, Graduate Studies Steering Committee, Department of Anthropology, The University of Texas at Austin (\$2000)
- Wendy Ashmore Scholarship, Programme for Belize Archaeological Project (PfBAP) (\$6000)
- 2015 G.R. Willey Scholarship, PfBAP (\$4500)
- 2014 Frances Meskill Scholarship, PfBAP (\$2500)

FELLOWSHIPS

- 2023- Postdoctoral Research Scholar, Department of Anthropology, Vanderbilt University
- 2021-2023 Postdoctoral Research Fellow, Department of Sociology and Anthropology, George Mason University
- 2020-2021 Postdoctoral Research Fellow, Department of Geological Sciences, The University of Texas at Austin
- 2020 Dissertation Writing Fellowship, The Graduate School, The University of Texas at Austin
- 2019 The National Academies of Sciences, Engineering, Medicine, Ford Foundation Dissertation Writing Fellowship (Honorable Mention)
- 2016 Scientist in Residence Fellowship, Environmental Science Institute, The University of Texas at Austin
- 2015 Graduate Research Fellowship, the National Science Foundation (Honorable Mention)
- 2013 Graduate Recruitment Fellowship, the Department of Anthropology and College of Liberal Arts, The University of Texas at Austin

AWARDS

- 2022 Professional Development Award, College of Humanities and Social Sciences, George Mason University
- 2019 Professional Development Award, Office of Graduate Studies, The University of Texas at Austin
- Professional Development Award, the Department of Anthropology, The University of Texas at Austin
- 2017 Professional Development Award, Office of Graduate Studies, The University of Texas at Austin
- 2016 Professional Development Award, Office of Graduate Studies, The University of Texas at Austin

- 2015 Professional Development Award, the Department of Anthropology, The University of Texas at Austin
- Professional Development Award, Office of Graduate Studies, The University of Texas at Austin
- 2013 Student Travel Grant, Associated Students Incorporated, California State University, Long Beach

RESEARCH COLLABORATIONS AND FIELD EXPERIENCE

My research experience combines archaeological excavation with wet chemistry techniques, focusing on exploring migration, diet, placemaking, kinship, and population histories of ancient peoples. I approach this work through collaborative, community-centered partnerships, co-producing research with community leaders and organizations to ensure that investigations honor community knowledge and priorities. I have led excavation teams and trained undergraduate and graduate students in excavation methods, as well as in preparing human and animal remains and geologic samples for isotopic analyses (including carbon, nitrogen, oxygen [carbonate and phosphate], and strontium) and ancient DNA studies.

- 2022- *Nuestra Señora de Belén and Plaza Recovery Project* [PI: Debra Martin]. University of Nevada, Las Vegas, George Mason University, Vanderbilt University.
- 2021- *Corozal Population History Project* [PIs: Rick W. A. Smith and Austin Reynolds]. George Mason University and Baylor University.
- 2020- *Ancient Maya Kinship, Memory, and the Making of Place* [PI: Angelina Locker]. Vanderbilt University, George Mason University, The University of Texas at Austin.
- 2020 - 2021 *Stories of Ancient Resilience* [PIs: Dan Breecker, Melissa Kemp, Sheryl Luzzadder-Beach, Adam Rabinowitz]. Planet Texas 2050 Research Grand Challenge, The University of Texas at Austin.
- 2018 - 2020 *Resources, Stress, and Population Dynamics in Premodern Urban Societies* [PI: Adam Rabinowitz]. Planet Texas 2050 Research Grand Challenge, The University of Texas at Austin.
- 2015 - 2016 *Fort St. Louis and Presidio Nuestra Señora de Loreto de la Bahía* [PI: Brad Jones]. Texas Historical Commission, Austin, TX.
- 2014 - 2020 *Programme for Belize Archaeology Project* [PI: Fred Valdez, Jr.]. Blue Creek, Belize, C.A.
- 2013 *Belize Valley Archeological Reconnaissance Project* [PI: Jaime Awe]. San Ignacio, Belize, C.A.

LABORATORY EXPERIENCE

I have extensive experience in controlled laboratory environments (standard, clean, and ISO-certified) across stable isotope, genomics, radiogenic isotope, and ancient DNA facilities. I lead method development and optimization for new analytical capabilities while refining protocols in established labs. I am proficient in operating multiple mass spectrometers (IRMS, TIMS, LA-ICP-MS), FTIR, and pXRF. I calibrate and interpret analytical results using Microsoft Excel and RStudio, ensuring accuracy and reproducibility while generating publication-quality figures.

- 2024- Oster Terrestrial Paleoclimate Lab [PI: Jessica Oster]. Department of Earth and Environmental Sciences, Vanderbilt University.
- 2021- Bioarchaeology Stable Isotope Research Lab [PI: Tiffany Tung]. Department of Anthropology, Vanderbilt University.
- 2021- Critical Molecular Anthropology Lab [PI: Rick W.A. Smith]. Department of Sociology and Anthropology, George Mason University.
- 2021-2023 Laboratory of Genetic Anthropology and Biocultural Studies [PI: Jada Benn Torres]. Department of Anthropology, Vanderbilt University.
- 2017 - 2020 Isotope Clean Lab and Thermal Ionization Mass Spectrometer Lab [PI: Jay L. Banner]. Jackson School of Geosciences, The University of Texas at Austin.
- 2016 - 2019 Bolnick Molecular Anthropology Lab [PI: Deborah A. Bolnick]. Department of Anthropology, The University of Texas at Austin.
- 2015 - 2021 Stable Isotope Laboratory [PI: Daniel O. Breecker]. Jackson School of Geosciences, University of Texas at Austin.
- 2014 - 2015 Quadrupole ICP-MS Laboratory [PI: Nathan Miller]. Jackson School of Geosciences, The University of Texas at Austin.
- 2011 - 2013 The Institute for Integrated Research in Materials, Environments and Society [PI: Hector Neff]. California State University, Long Beach.

PROFESSIONAL CONFERENCE PRESENTATIONS

Conference Symposia Organized/Chaired

- (2026) SciX 2026 Art & Archaeology Session Organizer and Chair: *Beyond the Site: Analytical Reconstructions of Ancient Climates, Environments, and Landscapes*
- 2020 The Society for American Archaeology 85th Annual Meeting Session Chair: *Bioarchaeology, Mortuary Analysis, and Ancient DNA*. *Cancelled due to coronavirus pandemic
- 2019 The Society for American Archaeology 84th Annual Meeting. Session Co-Chair: *Ancient Maya Landscapes in NW Belize, Part II* (Co-organized with Samantha M. Krause)

Papers and Posters Presented

- (2026) Katharine Walls, **Angelina J. Locker**, J. Tyler Faith, Alexandra L. Norwood, Tiffany Tung, and Larisa R.G. DeSantis. "Intraspecific variation in carbonate-collagen stable carbon isotope offsets in large herbivorous mammals: Implications for dietary interpretations of fossil taxa in paleontological and archaeological contexts." 86th Annual Meeting for the Society of Vertebrate Paleontology, Cleveland, OH.

Angelina J. Locker. "Beyond Depositional Geochemistry: Region-Specific IRMS Standards for Archaeological Carbonate Analysis." SciX 2026, Sparks, NV.

- 2026 Lilian J. Baker, **Angelina J. Locker**, Aleksa K. Alaica, Danna Aramburu Venegas, and Tiffany Tung. “Animals, Maize, and Empire at Auquimarca: Isotopic Perspectives on Agropastoral Lifeways in the Wari Period (600–1000 CE) of Peru.” 91st Annual Meeting for the Society for American Archaeology, San Francisco, CA.
- Celia D. Cleary, **Angelina J. Locker**, Lauren C. Springs, Diane Z. Chase, Arlen F. Chase, Adrian S. Z. Chase, Melissa M. Badillo, Adela P. Vallejos, Genara Cano, Roy Rodriguez, Rick W.A. Smith, Austin W. Reynolds. “Ancient Mitogenomes from Belize Provide Insights into the Mobility and Migration of Ancient Communities in Mesoamerica and the Caribbean.” 95th Annual Meeting for the American Association of Biological Anthropologists, Denver, CO.
- 2025 **Angelina J. Locker**, Justin He, Lilian J. Baker, and Tiffany A. Tung. “Application of Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy for the Evaluation of Diagenesis in Human Dental Enamel.” SciX 2025, Covington, KY.
- Tierney Cunningham, **Angelina J. Locker**, and Tiffany A. Tung. “Llama and Alpaca Husbandry in the Ancient Andes: Reconstructing Diet and Migration with Stable Isotope Analysis of Camelid Teeth from the site of Chavín de Huántar, Peru. Poster presented at the Vanderbilt Undergraduate Research Fair, Nashville, TN.
- Lauren Solecki, **Angelina J. Locker**, Samuel Sisneros, Miguel A. Tórrez, Pamela Stone, Debra L. Martin, Tiffany A. Tung, and Rick W.A. Smith. “Analyzing Diet at Nuestra Señora de Belén, New Mexico through Stable Carbon and Nitrogen Isotopes.” Poster presented at the Vanderbilt Undergraduate Research Fair, Nashville, TN.
- Angelina J. Locker**, Fred Valdez, Jr., Austin W. Reynolds, Rick W.A. Smith, and Tiffany A. Tung. “Reconstructing Lifeways at Kichpanha: Stable Isotope Insights into Ancient Maya Movement and Diet from the Preclassic to Early Postclassic Periods.” 90th Annual Meeting for the Society for American Archaeology, Denver, CO.
- Angelina J. Locker**, Fred Valdez, Jr. and Tiffany A. Tung. “Stable Isotope Evidence of Ancient Maya Movement and Diet at Kichpanha, Belize from the Preclassic to Early Postclassic” Poster presented at the 94th Annual Meeting for the American Association of Biological Anthropologists, Baltimore, MD.
- Justin He, **Angelina J. Locker**, and Tiffany A. Tung. “Examining Ancient Human Enamel Diagenesis with ATR-FTIR.” Poster presented at the 54th Annual Meeting for the American Association for Dental, Oral, and Craniofacial Research, in conjunction with the 49th Annual Meeting of the Canadian Association for Dental Research, New York, NY.
- 2024 Lilian J. Baker, Danna Aramburú Venegas, **Angelina J. Locker**, and Tiffany A. Tung. “Human-Animal Interactions in the Wari Hinterlands: A Zooarchaeological Analysis of Camelid Burial Remains from Auquimarca (600-1000 CE), Huancayo, Peru. Poster presented at the Vanderbilt Undergraduate Research Fair, Nashville, TN.
- Angelina Locker**, Diane Z. Chase, Arlen F. Chase, Tiffany A. Tung, Rick W.A. Smith “The Maya are a People of Movement: An Isotopic Assessment at Chactemal (Santa Rita Corozal), Belize.” 89th Annual Meeting for the Society for American Archaeology, New Orleans, LA.

Rick W.A. Smith, **Angelina Locker**, Austin W. Reynolds, Diane Z. Chase, Arlen F. Chase. "Isotopic and Paleogenomic Evidence of Maya Persistence at Late Postclassic and Early Colonial Chactemal (Santa Rita Corozal), Belize." 89th Annual Meeting for the Society for American Archaeology, New Orleans, LA.

Angelina Locker, Lilian Baker, Meredith Amato, Maya Diaz, Diane Z. Chase, Arlen F. Chase, Adrien S.Z. Chase, Adela Pederson Vallejos, Roy Rodrigues, To'one Masehualoon NPO Belize Maya, Melissa Badillo, Lauren Springs, Tiffany A. Tung, Austin W. Reynolds, Rick W.A. Smith "The Maya are a People of Movement: An Isotopic Assessment at Chactemal (Santa Rita Corozal), Belize." 93rd Annual Meeting for the American Association of Biological Anthropologists, Los Angeles, CA.

Rick W.A. Smith, **Angelina Locker**, Adela Pederson Vallejos, Roy Rodriguez, Melissa Badillo, Lauren C. Springs, Tiffany A. Tung, Jada Benn Torres, Adrien S.C. Chase, Diane Z. Chase, Arlen F. Chase, Austin W. Reynolds. "Isotopic and Paleogenomic Evidence of Maya Persistence at Late Postclassic and Early Colonial Chactemal (Santa Rita Corozal), Belize." 93rd Annual Meeting for the American Association of Biological Anthropologists, Los Angeles, CA.

Celia D. Cleary, **Angelina J. Locker**, Lauren C. Springs, Melissa M. Badillo, Rick W. A. Smith, and Austin W. Reynolds. "Ancient mitochondrial Genomes from Belize Provide Insights into the Mobility and Migration of Ancient Communities in Mesoamerica and the Caribbean." Poster presented at the 93rd Annual Meeting for the American Association of Biological Anthropologists, Los Angeles, CA.

Dittmer, B.L., **A.J. Locker**, C.D. Cleary, S. Sisneros, M. Tórrez, C. Ralston, J. Benn Torres, P. Stone, D. Martin, and RWA Smith. "Using Uniparental DNA to Recover the Colonial Population History of Nuestra Señora de Belén, New Mexico." Poster presented at the 93rd Annual Meeting for the American Association of Biological Anthropologists, Los Angeles, CA.

Amen Negash, Lauren C. Springs, **Angelina J. Locker**, Austin W. Reynolds, and Rick W. A. Smith. "Assessing Patri/Matrilineal Residence Across Generations among Yucatec Maya People in the Corozal District, Belize." Poster presented at the 93rd Annual Meeting for the American Association of Biological Anthropologists, Los Angeles, CA.

- 2023 Arlen F. Chase, Diane Z. Chase, Rick W.A. Smith, **Angelina Locker**, Adrian S.Z. Chase "Questioning Early Ceramic Dating in Northern Belize: New Data from Santa Rita Corozal, Belize." South-Central Conference on Mesoamerica, University of Texas at San Antonio.

Angelina Locker "Ancient Maya Placemaking: An Isotopic Assessment of Ancestry, Memory, and Body Partibility." 88th Annual Meeting for the Society for American Archaeology, Portland, OR.

Angelina Locker. "Dearly De-Parted: Using stable isotope data to assess the role ancient Maya bodies played in making place." 92nd Annual Meeting for the American Association of Biological Anthropologists, Reno, NV.

Celia D. Cleary, **Angelina J. Locker**, Diane Z. Chase, Adrien F. Chase, Arlen S.Z. Chase, Melissa M. Badillo, Jada Benn Torres, Austin W. Reynolds, and Rick W.A. Smith. "Paleogenomic Insights into the Composition of an Ancient Urban Neighborhood at the

- Puchituk Terminus, Caracol." Poster presented at the 92nd Annual Meeting for the American Association of Biological Anthropologists, Reno, NV.
- Meredith M. Amato, **Angelina J. Locker**, Adrien F. Chase, Diane Z. Chase, Arlen S.Z. Chase, Melissa Badillo, Lauren C. Springs, Tiffany Tung, Austin W. Reynolds, and Rick W.A. Smith. "A Stable Isotopic Analysis of Diet across Three Millennia of Maya Settlement at Santa Rita Corozal, Belize." Poster presented at the 92nd Annual Meeting for the American Association of Biological Anthropologists, Reno, NV.
- Ralph Francois, Maya B. Krause, **Angelina J. Locker**, and Tiffany A. Tung. "Examining Childhood Diet of the Ancient Andean Site of Aquimarka through Stable Carbon Isotope Analysis." Poster presented at the Vanderbilt Undergraduate Research Fair, Nashville, TN.
- Lilian Baker, Maya B. Krause, **Angelina J. Locker**, and Tiffany A. Tung. "Using Stable Oxygen Isotope Analysis to Reconstruct Middle Horizon (600-1000 CE) Migration Patterns in the Central Peruvian Highlands" Poster presented at the Vanderbilt Undergraduate Research Fair, Nashville, TN.
- 2022 Patricia Neuhoﬀ-Malorzo, **Angelina Locker**, Sheryl Luzzadder-Beach, Timothy Beach, and Fred Valdez, Jr. "The Role, Function, and Application of Technologies in Archaeology: Data from NW Belize." 17th annual Belize Archaeology Symposium, San Ignacio, Belize, Central America
- Angelina J. Locker**, Fred Valdez, Jr., Dan Breecker, and Catherine Schmidt. "A Tale of Two Cities: Migration, Violence, and Collapse at Kichpanha and Colha, Northern Belize. 87th Annual Meeting for the Society for American Archaeology, Chicago, IL.
- Adam Rabinowitz, Dan Breecker, Melissa Kemp, Sheryl Luzzadder-Beach, and **Angelina Locker**. Grand Challenges in archaeology, archaeology in Grand Challenges: the Stories of Ancient Resilience project and integrating the past in the Planet Texas 2050 Grand Challenge at the University of Texas at Austin. 87th Annual Meeting for the Society for American Archaeology, Chicago, IL.
- 2020 Fred Valdez, Jr., **Angelina J. Locker**, Samantha Krause, Manda Adam, David Hyde, and Palma Buttles. "The Development of Horticulture and the Origins of the Prehistoric Maya: Data from Northern Belize." 18th annual Belize Archaeology Symposium, San Ignacio, Belize, Central America *Cancelled due to coronavirus pandemic
- Angelina J. Locker**, Åsa J. Lind, Fred Valdez, Jr., and Deborah A. Bolnick "Ancient DNA of Prehistoric Maya: Feasibility, Possibilities, and Implications for Research in the Neotropics." 85th Annual Meeting for the Society for American Archaeology, Austin, TX. *Cancelled due to coronavirus pandemic
- 2019 **Angelina J. Locker**, Fred Valdez, Jr., Staci L. Loewy, Jay L. Banner, and Daniel O. Breecker. "Papa was a Rolling Stone: Migration Stories from the Three Rivers Region, NW Belize." 84th Annual Meeting for the Society for American Archaeology, Albuquerque, NM
- Debora Trein, **Angelina Locker**, Stacy Drake, Manda K.S. Adam, and Patricia Neuhoﬀ-Malorzo. "They Blinded Me with Science: Fancy Methods and Novel Approaches at the Programme for Belize Archaeology Project." 84th Annual Meeting for the Society for American Archaeology, Albuquerque, NM

- 2017 **Angelina Locker** and Stacy Drake. “Exploring Migration and Kinship of the Ancient Maya of NW Belize through Isotopes and aDNA.” 82nd Annual Meeting for the Society for American Archaeology, Vancouver, BC, Canada
- 2016 **Angelina Locker** and Fred Valdez, Jr. “Late Classic to Terminal Classic Maya Transitions: Modeling from NW Belize.” 81st Annual Meeting for the Society for American Archaeology, Orlando, FL
- 2015 **Angelina Locker**, Robyn Dodge, Fred Valdez, Jr., and Lauren Sullivan. Modified version of “Sourcing the Clay: LA-ICP-MS Analysis of Ceramics from the Programme for Belize Archaeological Project, Northwestern Belize.” Poster presented at the 13th annual Belize Archaeology Symposium, San Ignacio, Belize, Central America
- Angelina Locker**, Robyn Dodge, Fred Valdez, Jr., and Lauren Sullivan. “Sourcing the Clay: LA-ICP-MS Analysis of Ceramics from the Programme for Belize Archaeological Project, Northwestern Belize.” 80th Annual Meeting for the Society for American Archaeology, San Francisco, CA
- Angelina Locker**. “Reconstructing Migration: Using Isotopic Analysis to Examine Ancient Maya Mobility in Northwestern Belize.” New Directions in Anthropology Conference, Austin, TX
- 2013 **Angelina Sweeney**, Candice Brennan, Hector Neff, and Barbara Arroyo. “Material Provenance Study of a Formative Period Structure: Qualitative and Quantitative Analysis of Concrete and Sediment Samples from Kaminaljuyu, Guatemala.” Poster presented at the 78th Annual Meeting for the Society for American Archaeology, Honolulu, HI

INVITED TALKS

- 2026 *Migration, Diet, and Ancestry Across 3,000 Years of Maya History in Northern Belize: A Multi-Disciplinary Perspective*. Research Seminar, Department of Earth, Environmental, and Planetary Sciences, Northwestern University, Evanston, IL. 05 June 2026.
- One Story, Many Ways of Knowing: 3000 years of Maya Migration, Diet, and Ancestry in Northern Belize*. W. Watson Armour III Research Seminar Series, Field Museum of Natural History. Chicago, IL. 22 April 2026.
- 2025 *Maya Movement and Diet at Kichpanha: Stable Isotope Insights from Preclassic to Early Postclassic*. Graduate Women in Science Fellowship Winners Research Talks. 25 March 2025.
- 2024 *Reconstructing Diet and Movement at Nuestra Señora de Belén*, Department of Sociology and Anthropology Public Forum, George Mason University. 08 November 2024.
- 2024 *The Maya are a People of Movement: An Isotopic Assessment at Chactemal (Santa Rita Corozal), Belize*, Department of Sociology and Anthropology Public Forum, George Mason University. 03 May 2024.
- 2023 *Reconstructing Movement and Diet at Chactemal, On the Genomic and Isotopic Analysis of Human Population Histories of the Great Maya Civilization of Belize*, To'one Masehualoon NPO Open Forum, House of Culture, Corozal, Belize. 01 July 2023.

- 2022 *Ancestry, Memory, and Body Partibility: An Isotopic Assessment of Ancient Maya Placemaking*, Department of Integrative Anatomical Sciences, University of Southern California
- 2021 *Tales from the Crypt: Mobility, Ancestors, and Placemaking in NW Belize*, Graduate Women in Science Research Seminar
- 2018 *Unraveling Ancient Maya Migration and Kinship: An Examination of Stable Isotopes and aDNA*, The Mitchell Foundation
- Ancient Maya Kinship and Migration: Evidence from Stable Isotopes, aDNA, and Burial Practices*, Department of Art History, The University of Texas at Austin
- 2017 *Ancient Maya Migration and Mobility: An Examination of NW Belize*, the Anthropological Society at The University of Texas at Austin

TEACHING + MENTORING (*Lab Component; #Online)

INSTRUCTOR OF RECORD

George Mason University

- ANTH 135: Intro to Biological Anthropology** (Fall 2021, Spring 2022, Fall 2022)

The University of Texas at Austin

- ANT 304: Intro to Archaeological Studies: Prehistory* (Summer 2016; Spring 2017)
- ANT 301: Intro to Biological Anthropology*(Summer 2019)

GUEST LECTURER

- 2021 *Feasting, Ancestry, and Place: An Ancient Maya Case Study, Archaeology of Feast and Famine* (Ms. Emily Dawson), Department of Anthropology, The University of Texas at Austin
- 2021 *Ancient Maya Bodies: An Isotopic Assessment of Mobility and Placemaking, Forensic Geology* (Drs. Daniel Breecker and Jaime Barnes), Department of Geosciences, The University of Texas at Austin
- 2020 *Bioarchaeology and Isotope Geochemistry, Forensic Geology* (Drs. Daniel Breecker and Jaime Barnes), Department of Geosciences, The University of Texas at Austin
- 2019 *Bioarchaeology and Archaeological Science, Science and Art in Archaeology* (Dr. Fred Valdez, Jr.), Department of Anthropology, The University of Texas at Austin
- 2018 *Archaeology, Science, and Identity, Cultures in Contact* (Dr. R. Alan Covey), Department of Anthropology, The University of Texas at Austin

TEACHING ASSISTANTSHIPS

The University of Texas at Austin

- ANT 314C/ LAS 315: Intro to Mesoamerican Archaeology
- ANT 326L/ LAS 32L: Cultures in Contact [2]
- ANT 360K/ LAS 324L: Civilization of the Maya [2]
- ANT 301: Intro to Biological Anthropology**
- ANT F662: Field Archaeology-Belize* [3]

- UGS 303: Sustaining a Planet*
- ANT 304: Intro to Archaeological Studies: Prehistory*
- ANT 324L: Art and Science in Archaeology
- ANT 349C/ BIO 337: Human Variation*

Cal. State University, Long Beach

- ANTH 140: Pyramids, Tombs, and Treasure

GRADUATE STUDENTS

- Susan G. Crane (UT Austin, Department of Classics, MA)
- Elijah C. Fleming (UT Austin, Department of Classics, PhD)
- David T. Ledesma (UT Austin, Integrative Biology, PhD)
- Celia D. Cleary (GMU, Sociology and Anthropology, M.A; Baylor, Anthropology, PhD)
- Meredith Amato (GMU, Sociology and Anthropology, MA)
- Catherine L. McCormack (Vanderbilt, Anthropology, PhD)
- Maya B. Krause (Vanderbilt, Anthropology, PhD)
- Sylvia A. Cheever (Vanderbilt, Anthropology, PhD)
- Isaac J. Gutierrez (Vanderbilt, Anthropology, PhD)
- Aubrey Chambers (Yale, Anthropology, MA)
- Katharine E. Walls (Vanderbilt, Biological Sciences, PhD)

UNDERGRADUATE STUDENTS

- Catherine E. Schmidt (UT Austin, Geological Sciences)
- Sheldon Smith (UT, Austin, Anthropology)
- Spencer Foster (UT Austin, Anthropology)
- Kimberly Noone (UT Austin, Anthropology)
- Lilian Baker (Vanderbilt, Anthropology; Medicine, Health, and Society)
- Lauren Solecki (Vanderbilt, Anthropology; Medicine, Health, and Society)
- Tierney Cunningham (Vanderbilt, Anthropology; Medicine, Health, and Society)
- Justin He (Vanderbilt, Biochemistry)
- Sophia D. Koss (Vanderbilt, Anthropology; Medicine, Health, and Society)
- Eugene Min (Vanderbilt, Biological Sciences)
- Sanjana Veerapaneni (Vanderbilt, Biological Sciences)

SERVICE + LEADERSHIP

PROFESSIONAL

2026	Society for Archaeological Sciences, 2026 Review Committee: Student and Early Career Research award program.
2025	American Association of Biological Anthropologists, 2026 Functional Anatomy/Genetics & Genomics Program Subcommittee
2025	American Association of Biological Anthropologists, 2026 Program Committee
2022	Society for American Archaeology, 2023 Annual Meeting Program Committee

- 2021 - 2022 Graduate Women in Science National Fellowship Program Evaluation Committee
- 2019 - 2020 Graduate Women in Science, Austin Chapter - Founding Board Member and Elected Treasurer

UNIVERSITY

- 2025 Vanderbilt University Summer Mentoring and Project Planning Workshop – workshop panelist
- 2025 Vanderbilt University Summer Undergraduate Research Program Proposal Workshop – workshop panelist
- 2023 - Vanderbilt University Undergraduate Research Fair – Poster Judge
- 2020 The Department of Anthropology, The University of Texas at Austin – *Graduate Student Handbook* addendum co-author.
- 2020 The Department of Anthropology, The University of Texas at Austin – *Anti-Racism Statement from the Anthropology Graduate Student Association (AGSA), The University of Texas at Austin, Summer 2020* co-author.
- 2018 The University of Texas at Austin, College of Liberal Arts, Dean Search Committee
- 2016 - 2019 Explore UT, Presenter: “Adventures in Archaeology,”
- 2016 - 2017 Scientist in Residence Fellow, Blackland Prairie Elementary, Round Rock, TX
- 2015 - 2019 International Archaeology Day, UT Austin and Texas Archeology Research Lab, Presenter

REFeree ACTIVITIES

Peer-reviewed Journals:

- *American Journal of Biological Anthropology*
- *International Journal of Osteoarchaeology*
- *Journal of Archaeological Science: Reports*
- *Science*
- *Science Advances*

Granting Institutions:

- Graduate Women in Science
- National Geographic Society
- National Science Foundation
- Society for Archaeological Sciences

K12 SCIENCE ENGAGEMENT

- 2024 Vanderbilt University, *Programs for Talented Youth*, Instructor - Archaeometry: Understanding the Past through Archaeological Science
- 2021 National Geographic and Disney, *Explorer Academy Adventures*, Real-Life Explorer, Bioarcheologist
- 2017 - 2020 Skype a Scientist: Jewish Community Day School, Boston, MA

- 2017 Student Teacher (“Archaeology and Ancient DNA”), Benold Middle School, Georgetown, TX
- 2015 - 2017 Girlstart: Girls in STEM Annual Conference Presenter “Dig It! Adventures in Archaeology”
- 2015 - 2016 Ascend Center for Learning, Tutor
- 2015 - 2016 Communities in Schools, Mentor, Andrews Elementary, Austin, TX

PROFESSIONAL DEVELOPMENT

- Association of Genetics to Anthropological Research (AGAR) Workshop on Computational Genetics, The University of Utah
- Total Data Station and Global Positioning System Workshop Texas Archeology Research Laboratory, The University of Texas at Austin
- NAGPRA Workshop, Texas Archeology Research Laboratory, The University of Texas at Austin
- Osteology Workshop, Texas Archeology Research Laboratory, The University of Texas at Austin
- What’s the Use? Using Archaeological Collections for Research, Outreach, and Exhibition, Society for American Archaeology Online Seminar Series
- Osteology Workshop, California State University, Long Beach

PROFESSIONAL MEMBERSHIPS

- American Association of Anthropological Genetics
- American Association of Biological Anthropologists
- Sigma Delta Epsilon, Graduate Women in Science
- Society for American Archaeology
- Society for Archaeological Sciences

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