

MARIYAM (MARI) ISA, PhD

ASSISTANT PROFESSOR OF ANTHROPOLOGY, TEXAS TECH UNIVERSITY
DIRECTOR, ANTHROPOLOGY RESEARCH & IDENTIFICATION (ARID) LAB

CONTACT

☎ 806 834 3532

✉ mari.isa@ttu.edu

EDUCATION

PhD, Anthropology, Michigan State University, East Lansing, MI (degree conferred 2020)

Funded by the National Science Foundation Graduation Research Fellowship (NSF GRFP), Award DGE1424871. Dissertation: "Experimental Investigations of Blunt Force Trauma in the Human Skeleton."

MA, Anthropology, Michigan State University, East Lansing, MI (degree conferred 2016)

BS, Anthropology with High Honor, Michigan State University, East Lansing, MI (degree conferred 2014)

BS, Human Biology with High Honor, Michigan State University, East Lansing, MI (degree conferred 2014)

EMPLOYMENT

Assistant Professor, Department of Sociology, Anthropology & Social Work, Texas Tech University (2020-Present)

Director, Anthropology Research & Identification (ARID) Lab

Adjunct Faculty, Department of Environmental Toxicology

Affiliate Faculty, Women's and Gender Studies Program

PUBLICATIONS (*DENOTES STUDENT CO-AUTHORS)

PEER-REVIEWED ARTICLES

*D.F. Edwards, **M.I. Isa**. An experimental study of bullet mass and velocity and their relation to fracture patterns in flat bones *Journal of Forensic Sciences*, **2026**. <http://doi.org/10.1111/1556-4029.70258>.

S.H. Blatt, **M.I. Isa**, A.R. Michael, T.M. Flaherty, A. Smith, S. Howard, S. Unwin. Introducing Contextual Observations in Support of All Gender Expressions (COSAGE): a Crowd-sourced guide for documenting assigned sex at birth and gender expression in human identification efforts. *American Journal of Biological Anthropology*, **2025**, 188:e70180. <https://doi.org/10.1002/ajpa.70180>.

*D.F. Edwards, **M.I. Isa**. Effects of projectile kinetic energy and firearm-to-target distance on fracture behavior in flat bones. *Journal of Forensic Sciences*, **2024**, 69(2), 400-414. <https://doi.org/10.1111/1556-4029.15462>.

M.I. Isa, T.W. Fenton, A.C. Goots, E.O. Watson, P.E. Vaughan, F. Wei. Effects of input energy and impactor shape on cranial fracture patterns. *Forensic Science International*, **2023**, 352, 111859. <https://doi.org/10.1016/j.forsciint.2023.111859>.

D.M. Adams, S.M. Blatt, T.M. Flaherty, J.D. Haug, **M.I. Isa**, A.R. Michael, A.C. Smith. Shifting the forensic anthropological paradigm to incorporate the transgender and gender diverse community. *Humans* **2023**, 3, 142-165. <https://doi.org/10.3390/humans3030013> (equal authorship publication with authors listed alphabetically).

D.M. Adams, J.Z. Goldstein, **M.I. Isa**, J.J. Kim, M.K. Moore, M. Pilloud, S.D. Tallman. A conversation on redefining ethical considerations in forensic anthropology. *American Anthropologist* **2022**, 124(3), 597-612. <https://doi.org/10.1111/aman.13753> (equal authorship publication with authors listed alphabetically).

A.M. Michael, S.H. Blatt, **M.I. Isa**, A. Redgrave, D.H. Ubelaker. Identification of a decedent in a 103-year-old homicide case using forensic anthropology and genetic genealogy. *Forensic Sciences Research* **2022**, 7(3), 412-426. <https://doi.org/10.1080/20961790.2022.2034717>.

A.C. Goots, **M.I. Isa**, T.W. Fenton, F. Wei. Blunt force trauma in the human mandible: An experimental investigation. *Forensic Science International Reports* **2021**, 5(5), 100252. <https://doi.org/10.1016/j.fsir.2021.100252>.

- M.I. Isa**, T.W. Fenton, L.S. Antonelli, P.E. Vaughan, F. Wei. Investigating reverse butterfly fractures: An experimental approach and application of fractography. *Forensic Science International* **2021**, 325, 110899. <https://doi.org/10.1016/j.forsciint.2021.110899>.
- M.I. Isa**, T.W. Fenton, A.C. Goots, E.O. Watson, P.E. Vaughan, F. Wei. Experimental investigation of cranial fracture initiation in blunt human head impacts. *Forensic Science International* **2019**, 300, 51-62. <https://doi.org/10.1016/j.forsciint.2019.04.003>.
- M.I. Isa**, T.W. Fenton, T.S. DeLand, R.C. Haut. Assessing impact direction in 3-point bending of human femora: incomplete butterfly fractures and fracture surfaces. *Journal of Forensic Sciences* **2018**, 63(1), 38-46. <https://doi.org/10.1111/1556-4029.13521>.
- M.I. Isa**, J.T. Hefner, M.A. Markey. Application of the Stephan et al. chest radiograph comparison method to decomposed human remains. *Journal of Forensic Sciences* **2017**, 62(5), 1304-1307. <https://doi.org/10.1111/1556-4029.13432>.

BOOKS & BOOK CHAPTERS

- A.M. Christensen, **M.I. Isa**, M.A. Smith, J.T. Hefner, H.E. Berryman, I.S. Saginor, J.B. Webb. *A Guide to forensic fractography of bone*. Ed. Federal Bureau of Investigation, No. 21.35, **2022**. <https://doi.org/10.5281/zenodo.6013747>.
- M.G. Celuzza, E.O. Watson, A.C. Goots, **M.I. Isa**, J. Beatrice, E.N. Streetman, E. Pacciani. Late Antique and Early Medieval Rusellae: Archaeology and anthropology of the cemetery of the Episcopal church. In *Archaeological and Historical Landscapes of Mediterranean Central Italy, Vol. 3: Archaeological Landscapes of Late Antique and Early Medieval Tuscia*. Ed., R. Rao, C. Megali, A. Sebastiani, Brepols, Turnhout, Belgium, **2023**, pp. 65-87. ISBN: 978-2-503-60499-2.
- A. Cucina, **M.I. Isa**, G.D. Wrobel. The Use and Misuse of Archaeological and Anthropological Data to Support Interpretations of Performative Violence: Bioarchaeological and Forensic Perspectives. In *Routledge Handbook of the Archaeology of Violence in the Americas*. A.M. Pérez-Florez, R. Harrod, Eds. Routledge Press, **accepted, publication anticipated 2026**.
- M.I. Isa**. Blunt Trauma and Fractography. In *The Routledge Handbook of Forensic Anthropology*, N.V. Passalacqua and M. Pilloud, Eds. Routledge Press, **accepted, publication anticipated 2026**.

RESEARCH REPORTS

- M.I. Isa**, **T.W. Fenton**. *Final Project Overview: Building a Science of Adult Cranial Fracture*. National Institute of Justice Award No. 2015-DN-BX-K013 (T. W. Fenton, PI; F. Wei & R. C. Haut, Co-PIs), **2018**.
- S.G. Morton, **M.I. Isa**, G.D., Wrobel. Caves were the houses of the Earth Lord, right? Insight into the domestic economy of Central Belize from the cave context. *Research Reports in Belizean Archaeology* **2015**, 12: 107-114.

GRANTS, HONORS & AWARDS

- Arts & Sciences Faculty Research Advancement Program (RAP) Black (2026)** – \$9,865 – awarded by the Texas Tech University College of Arts & Sciences for the project “FOrensic REmote Sensing InvestiatiON of Taphonomic Signatures (FORESighTS)”. PI: M. Isa; Co-PI G. Fontana.
- Douglas M. Lucas Grant (2023)** – \$3,656.37 – awarded by the Forensic Sciences Foundation (FSF) for the project “Computational approaches to modeling fracture patterns in bone: a novel approach using peridynamics”. PI: M.I. Isa; Co-PI, V. Howle.
- Kenneth S. Field Grant (2023)** – \$1,4605.05 – awarded by the FSF for the project “How do muzzle velocity and bullet grain influence fracture patterns in bone? A quantitative approach to the investigation of gunshot trauma”. PI: M. Isa; Co-PI, D.F. Edwards.
- Outstanding Faculty Mentor Award (2022)** – awarded by the Texas Tech University Center for Transformative Undergraduate Experiences
- Proposal Assistance Program Award (2021)** – \$3,189 – awarded by the Texas Tech University Office of Research and Innovation for the project “Establishing classification rates for skeletal trauma.” PI: M.I. Isa; Co-PI, V. Howle.
- Dissertation Completion Fellowship (2020)** – \$7,000 – awarded by the Michigan State University Graduate School for the dissertation titled “Experimental investigations of blunt force trauma in the human skeleton.”
- Student Travel Award (2020)** – \$1,500 – awarded by the Forensic Sciences Foundation to support travel to the American Academy of Forensic Sciences Annual Scientific Meeting in Anaheim, CA.
- Research Scholars Award (2018)** – \$2,129 – awarded by the Michigan State University College of Social Science to support osteological analysis of human remains from Roman Rusellae, Italy.
- Kenneth E. Corey Research Enrichment Award (2017)** – \$2,082 – awarded by the Michigan State University College of Social Science to support the investigation of micro-spatial histological variation in the human ribs and the resultant effect on age at death estimation.
- National Science Foundation Graduate Research Fellowship (2015)** – \$34,000/year stipend x 3 years – awarded by the National Science Foundation to support the dissertation project “Experimental investigations of blunt force trauma in the human skeleton.”

Ellis R. Kerley Paper Award (2014) – (\$250) – awarded by the Ellis R. Kerley Foundation for the paper “Fracture initiation and propagation in pediatric blunt cranial trauma,” presented at the American Academy of Forensic Sciences Annual Scientific Meeting in Seattle, WA.

Rasmussen Graduate Fellowship Award (2014) – (\$5,000) – awarded to 10 graduate students that the Michigan State University Graduate School believed would be leaders in their field.

Humanities, Social Science, and Communication Arts & Sciences Grand Prize (2014) – (\$500) – awarded for the presentation “Fracture initiation and propagation in pediatric blunt cranial trauma” at the Michigan State University Undergraduate Research & Arts Forum

Phi Beta Kappa (2013)

Phi Kappa Phi (2012)

National Merit Scholarship (2010–2014)

Michigan State University Alumni Distinguished Scholarship (2010–2014)

CONFERENCE PRESENTATIONS (*DENOTES STUDENT CO-AUTHORS)

M.I. Isa, D. Edwards*, J. Knysz*, A. Curry*. A118 “Exploring inter-observer agreement in assessments of projectile defects.” American Academy of Forensic Sciences (AAFS) 77th Annual Scientific Meeting; Baltimore, MD. February 17-22, **2025**.

C. Hulse, R. Tegtmeier Hawke, **M.I. Isa, K. Grow, A. Christensen. A60** “The application of forensic fractography to thermally altered bone.” AAFS 77th Annual Scientific Meeting; Baltimore, MD. February 17-22, **2025**.

D.F. Edwards*, **M.I. Isa. Y82** “How do muzzle velocity, bullet mass, and overall kinetic energy influence skeletal fracture initiation and propagation patterns.” AAFS 77th Annual Scientific Meeting; Baltimore, MD. February 17-22, **2025**.

C.A. Unger*, **M.I. Isa. A113** “Investigating differences in methodological approaches to scoring fracture angle, outline, and surface.” AAFS 77th Annual Scientific Meeting; Baltimore, MD. February 17-22, **2025**.

C.A. Unger*, **M.I. Isa. A29** “Investigating Applications of Forensic Fractography of Bone Over the Postmortem Interval.” AAFS 76th Annual Scientific Meeting; Denver, CO. February 19-14, **2024**.

D.F. Edwards*, **M.I. Isa. F5** “Investigating Fracture Morphology in Gunshot Trauma Impacts in Relation to Kinetic Energy and Distance.” AAFS 76th Annual Scientific Meeting; Denver, CO. February 19-14, **2024**.

M.I. Isa, A.R. Michael, C. Wainer*. A24 “Research needs vs. publication trends in forensic anthropology.” AAFS 75th Annual Scientific Meeting; Orlando, FL. February 13-18, **2023**.

D.F. Edwards*, **M.I. Isa. A6** “Investigation of gunshot homicides in the New Mexico Decedent Image Database.” AAFS 75th Annual Scientific Meeting; Orlando, FL. February 13-18, **2023**.

S.H. Blatt, A.R. Michael, **M.I. Isa, T.M. Flaherty.** “Crowd-sourcing resources and solutions to aid forensic anthropologists in identification of transgender and gender diverse (TGD) decedents.” American Association of Biological Anthropologists 92nd Annual Meeting; Reno, NV, April 19-22, **2023**.

S.H. Blatt, A.R. Michael, **M.I. Isa, A. Redgrave.** “Bye-bye binary: Collaborative, gender-expansive strategies for identification of Trans Does.” American Association of Biological Anthropologists 91st Annual Meeting; Denver, CO. March 23-26, **2022**.

M.I. Isa, A.R. Michael, S.H. Blatt, T.M. Flaherty. A107 “Centering gender inclusive strategies in forensic anthropology.” AAFS 74th Annual Scientific Meeting; Seattle, WA. February 21-25, **2022**.

A. Redgrave, J. Veltstra, A.R. Michael, S.H. Blatt, **M.I. Isa. A11** “We Take Care of Our Own: Utilizing the LGBT+ Accountability for Missing and Murdered Persons (LAMMP) Database.” American Academy of Forensic Sciences 74th Annual Scientific Meeting; Seattle, WA. February 21-25, **2022**.

M.I. Isa, T.W. Fenton, A.C. Goots, E.O. Watson, P.E. Vaughan, F. Wei. “Effects of Input Energy and Impact Surface on Cranial Fracture Patterns.” **A91** AAFS 73rd Annual Scientific Meeting; Virtual. February 15-19, **2021**.

A.R. Michael, **M.I. Isa, A. Redgrave, L. Bingham Redgrave. A101** “Structural vulnerability in transgender and non-binary decedent populations: Analytical considerations and harm reduction strategies.” American Academy of Forensic Sciences 73rd Annual Scientific Meeting; Virtual. February 15-19, **2021**.

M.I. Isa, T.W. Fenton, L.A. Antonelli, P.E. Vaughan, F. Wei. A119 “Application of fractography in trauma analysis of complex long bone fractures.” AAFS 72nd Annual Scientific Meeting; Anaheim, CA. February 17-22, **2020**.

A.R. Michael, **M.I. Isa, A. Redgrave, L. Bingham Redgrave. A1** “Collaborative approaches in the identification of transgender and gender variant decedents.” American Academy of Forensic Sciences 72nd Annual Scientific Meeting; Anaheim, CA. February 17-22, **2020**.

- T.W. Fenton, **M.I. Isa**. "A decade of experimental research on blunt force cranial fracture." American Association of Anatomists Annual Meeting at Experimental Biology; Orlando, FL. April 6-9, **2019**.
- M.I. Isa**, T.W. Fenton, A.C. Goots, F. Wei, R.C. Haut. **A139** "Experimental investigation of blunt force fracture in the human mandible." AAFS 71st Annual Scientific Meeting; Baltimore, MD. February 18-23, **2019**.
- M.I. Isa**, A.C. Goots. "Blunt force experiments in the human mandible." Forests, Lakes, and Grasslands Forensic Anthropologists 8th Annual Meeting; Roscommon, MI. October 19-21, **2018**.
- M.I. Isa**, T.W. Fenton. "Building a science of adult cranial fracture." National Institute of Justice Forensic Science Research and Development Symposium at the AAFS 70th Annual Scientific Meeting; Seattle, WA. February 20, **2018**.
- A.C. Goots, **M.I. Isa**, T.W. Fenton, E.O. Watson, P.E. Vaughan, F. Wei, R.C. Haut. **A35** "Estimating points of impact in multiple blunt force cranial trauma: lessons from experimental impacts." AAFS 70th Annual Scientific Meeting; Seattle, WA. February 19-24, **2018**.
- E.O. Watson, T.W. Fenton, **M.I. Isa**, P.E. Vaughan, F. Wei, R.C. Haut. **A34** "The influence of implement shape on fracture pattern and defect size in experimental blunt cranial impacts." AAFS 70th Annual Scientific Meeting; Seattle, WA. February 19-24, **2018**.
- M.I. Isa**, T.W. Fenton, A.C. Goots, E.O. Watson, P.E. Vaughan, F. Wei, R.C. Haut. **A33** "Initiation and propagation of fractures in blunt impacts to unconstrained human cadaver heads." AAFS 70th Annual Scientific Meeting; Seattle, WA. February 19-24, **2018**.
- M.I. Isa**. "Building a science of cranial fracture part 1: fracture initiation and propagation." Forests, Lakes, and Grasslands Forensic Anthropologists 7th Annual Meeting; Roscommon, MI. October 20-22, **2017**.
- M.I. Isa**, T.W. Fenton, P.E. Vaughan, F. Wei, R.C. Haut. **A136** "Concentrated 4-point bending and fracture behavior in human femora." AAFS 69th Annual Scientific Meeting; New Orleans, LA. February 13-18, **2017**.
- M.I. Isa**. "In pursuit of butterfly fractures: 4-point bending experiments in human femora." Forests, Lakes, and Grasslands Forensic Anthropologists 6th Annual Meeting; Roscommon, MI. October 28-30, **2016**.
- E.N. Streetman, C.C.M. Vogelsberg, **M.I. Isa**, T.W. Fenton, A. Sebastiani. "Changing economic landscapes in Late Antique Tuscany: osteological analysis of burials from an abandoned workshop." American Association of Physical Anthropologists 85th Annual Meeting; Atlanta, GA. April 13-16, **2016**.
- M.I. Isa**, T.W. Fenton, P.E. Vaughan, R.C. Haut. **A78** "Understanding the role of contact area in adult cranial fracture variation." AAFS 68th Annual Scientific Meeting; Las Vegas, NV. February 22-27, **2016**.
- M.I. Isa**. "An update on cranial impact experiments: New directions in understanding fracture variation." Forests, Lakes, and Grasslands Forensic Anthropologists 5th Annual Meeting, Roscommon, MI. September 24-27, **2015**.
- M.I. Isa**, T.W. Fenton, T.S. DeLand, R.C. Haut. **A96** "Fracture characteristics of fresh human femora under controlled three-point bending." American Academy of Forensic Sciences 67th Annual Scientific Meeting; Orlando, FL. February 16-21, **2015**.
- T.W. Fenton, **M.I. Isa**, P.E. Vaughan, R.C. Haut. **A100** "Experimental and computational validations of the initiation and propagation of cranial fractures in the adult skull." American Academy of Forensic Sciences 67th Annual Scientific Meeting; Orlando, FL. February 16-21, **2015**.
- M.I. Isa**. "Controlled three-point bending in fresh human femora." Forests, Lakes, and Grasslands Forensic Anthropologists 4th Annual Meeting; Roscommon, MI. September 26-28, **2014**.
- M.I. Isa**, T.W. Fenton, J.M. Vollner, E.R. Niespodziewanski, T.S. DeLand, J. DeJong, R.C. Haut. **H33** "Fracture initiation and propagation in pediatric blunt cranial trauma." American Academy of Forensic Sciences 66th Annual Scientific Meeting; Seattle, WA. February 17-22, **2014**.
- M.I. Isa**, S.G. Morton. "Interactive landscapes: Exploring movement and exchange across the ritual cavescape of Central Belize." Chacmool Archaeological Conference; Calgary, AB, Canada. November 8-10, **2013**.
- M.I. Isa**. "Cranial fracture initiation: why does it matter?" Forests, Lakes, and Grasslands Forensic Anthropologists 3rd Annual Meeting; Roscommon, MI. September 27-29, **2013**.

SYMPOSIUM AND CONFERENCE ORGANIZATION

- Co-Organizer, Forensic Anthropology Meeting in New Orleans, LA (**2025-2026**)
- Co-Organizer, Forensic Anthropology Meeting in Baltimore, MD (**2024-2025**)
- Co-Organizer, Forensic Anthropology Meeting in Denver, CO (**2023-2024**)
- Co-Organizer, Forensic Anthropology Meeting in Orlando, FL (**2022-2023**)
- Co-Organizer, "Queered Science: Interdisciplinary Approaches to Gender-Inclusive Research." Symposium at the AAFS 74th Annual Scientific Meeting in Seattle, WA (**2022**)
- Co-Organizer, "TRANScending Jane and John Doe: The Impact of Gender Identification in Forensic Cold Cases." Six-hour webinar hosted by Idaho State University (**2021**)

TEACHING

TEXAS TECH UNIVERSITY

Undergraduate Courses

ANTH 3314 Human Osteology (2022)

ANTH 4343 Methods in Forensic Anthropology, formerly Human Skeletal Biology & Forensic Techniques (2021-Present)

ANTH 3303 Forensic Anthropology (2020-Present)

ANTH 4320 Forensic Archaeology (2020-Present)

Graduate Courses

ANTH 5319 Topics in Biological Anthropology: Skeletal Trauma & Taphonomy (2022-Present)

ANTH 5319 Topics in Biological Anthropology: Human Osteology (2022)

ANTH 5319 Topics in Biological Anthropology: Cold Cases in Forensic Anthropology (2022-Present)

MICHIGAN STATE UNIVERSITY

Undergraduate Courses

ANP 441 Human Osteology & Forensic Anthropology (2019)

ANP 270 Women & Health (2016)

STUDENT MENTORSHIP

CHAIR OF MASTER'S THESIS COMMITTEES

Madeline Leeah. Title TBD. **In Progress.**

Program: Texas Tech University – Anthropology M.A.

Emma Taylor. Title TBD. **In Progress.**

Program: Texas Tech University – Anthropology M.A.

Dennise Sanchez. Title TBD. **In Progress.**

Program: Texas Tech University – Anthropology M.A.

Carter Unger. "Regional and Seasonal Effects on Long Bone Fracture Characteristics." **Degree conferred 2024.**

Program: Texas Tech University – Anthropology M.A.

Delaney Edwards. "Investigation of Fracture Morphology in Gunshot Trauma." **Degree conferred 2023.**

Program: Texas Tech University – Anthropology M.A.

MEMBER OF MASTER'S THESIS AND DOCTORAL DISSERTATION COMMITTEES

Lillian Antonelli, "A Biomechanical Evaluation on Non-Human Analogues in Bone Fracture Research." **Degree conferred 2024.**

Program: California State University, Chico – Anthropology M.A.

A. Celeste Medrano, "Assessment of Decomposition Training Aids Using a Controlled Experiment Framework." **Degree conferred 2023.** Program: Texas Tech University – Forensic Science M.S.: Chemistry Track.

Kaitlyn Fulp, "A Study of Decomposition in the Arizona Sonoran Desert Using Pigs." **Degree conferred 2021.**

Program: Texas Tech University – Anthropology M.A.

CHAIR OF MASTER'S COMMITTEES (NON-THESIS TRACK)

Maxwell Howard. Non-thesis exam. **Degree conferred 2024.**

Program: Texas Tech University – Anthropology.

MEMBER OF MASTER'S COMMITTEES (NON-THESIS TRACK)

Gema Diaz Duran. Fracture Characteristics of Trauma on the Skeletal System: A Literature Review. **In Progress.**

Program: Texas Tech University – Forensic Science M.S.: Investigator Track

Cynthia Herrera. Title TBD. **In Progress.**

Program: Texas Tech University – Forensic Science M.S.: Investigator Track

Ariel Noriega. Non-thesis exam. **Degree conferred 2025**

Program: Texas Tech University – Anthropology M.A.

Catherine Tennison. Non-thesis exam. **Degree conferred 2025**

Program: Texas Tech University – Anthropology M.A.

Kortnie Koebel. “Comparative Analysis of Blunt Force Trauma as it Relates to Decomposition Rates Utilizing Pig Models.” **Degree conferred 2025**. Program: Texas Tech University – Forensic Science M.S.: Investigator Track

Sydney Sylvester. “The Deep Dive: A Review of the Last Ten Years of Aquatic Decomposition Developments and Experimental Schemes.” **Degree conferred 2025**. Program: Texas Tech University – Forensic Science M.S.: Investigator Track

Payton Clough. “The Effect of Cadaver Concealment on PMI Estimation using Entomological Evidence.” **Degree conferred 2024**. Program: Texas Tech University – Forensic Science M.S.: Investigator Track

Mary Festa. “Uncovering the Impact of Cranial Blunt Force Trauma in Forensic Investigation.” **Degree Conferred 2023**

Program: Texas Tech University – Forensic Science M.S.: Investigator Track

Sara Sidor. “Pathological Analysis of Homicidal and Suicidal Asphyxia Trauma Produced by Ligatures.” **Degree Conferred 2023**

Program: Texas Tech University – Forensic Science M.S.: Investigator Track

Katherine Titus. “Final Disposition of Remains in Homicide Investigations: A Review of the Literature and Investigative Impacts.” **Degree Conferred 2022**. Program: Texas Tech University – Forensic Science M.S.: Investigator Track

UNDERGRADUATE STUDENT MENTORING WITH SPECIFIC OUTCOMES

Darian Finch (2024-2025). Project: “Bridging the Gap in Forensic Anthropology: Evaluating the Influence of Observer Experience and Sleep on the Documentation of Skeletal Trauma.” Student gained experience in trauma documentation and statistical analyses in R, and presented research results at the 2025 Texas Tech University Undergraduate Research Conference.

Jordyn Knysz, Alex Curry (2024). Project: “Exploring inter-observer agreement in assessments of projectile defects.” Students gained experience in trauma documentation and were contributing authors on a research poster presented at the 2025 American Academy of Forensic Sciences Annual Meeting.

Catherine Wainer (2022-2023). Project: “Research Needs vs. Publication Trends in Forensic Anthropology.” Student gained experience conducting a systematic literature review and was a contributing author on a research poster presented at the 2023 American Academy of Forensic Sciences Annual Meeting.

Chiamaka Lebechi (2021-2022). Project: “The Unidentified-Identified Gap: Examining University Skeletal Collections through a Structural Vulnerability Lens,” funded through the Transformative Undergraduate Experiences (TrUE) Scholars Program. Student presented at the 2022 Texas Tech University Undergraduate Research Conference and was awarded a first-place prize in the Social Constructs Impact category.

SELECTED WORKSHOPS, TRAININGS & INVITED LECTURES

New York City Office of Chief Medical Examiner Grand Rounds Lecture Series (2025). *From Morphology to Mechanism: Applying Biomechanics and Fractography to Pediatric Cranial Trauma Interpretation*. Office of Chief Medical Examiner, New York, NY.

Forensic Anthropology Center at Texas State (2024). *Introduction to Forensic Fractography of Bone Workshop*. Texas State University, San Marcos, TX.

Defense POW/MIA Accounting Agency (DPAA) Laboratory (2024). *Forensic Fractography of Bone Workshop*. Offutt Air Force Base, NE and Joint Base Pearl Harbor-Hickam, HI.

Forensic Technology Center of Excellence in collaboration with the Society of Forensic Anthropologists Webinar Series (2022). *Forensic Fractography of Bone: A New (and Approachable!) Model for Skeletal Trauma Analysis*. Webinar presented with A.M. Christensen.

Odessa Police Department (2022). *Forensic Anthropology and the Recovery of Human Remains*. Texas Commission on Law Enforcement (TCOLE) credit course held at the Odessa Police Department Training Facility in Odessa, TX.

Indiana Medical History Museum Forensic Science Lecture Series (2019). *The Science of Broken Bones*. Indianapolis, IN.

Minnesota Coroner's and Medical Examiners' Association Annual Forensic Science Seminar (2019). *Experimental Approaches to the Interpretation of Blunt Force Cranial Fracture*. Minneapolis, MN.

Michigan State Police (2019). Mock burial excavation training for state law enforcement and crime laboratory experts. East Lansing, MI.

Michigan State Police (2014). Mock burial excavation training for state law enforcement and crime laboratory experts. East Lansing, MI.

SERVICE

UNIVERSITY, COLLEGE & DEPARTMENT SERVICE

Forensic Science Tenure-Track Assistant Professor Search Committee, Department of Environmental Toxicology (2025-2026)

Lambda Alpha Anthropology Honors Society Faculty Advisor (2024-2025)

Women's and Gender Studies Program Social Committee Co-Chair (2021-2024)

Forensic Science Tenure-Track Assistant Professor Search Committee, Department of Environmental Toxicology (2021-2022)

Faculty Mentor, TrUE Scholar Program (2021-2022)

PROFESSIONAL SERVICE

Member of the Anthropology Consensus Body, American Academy of Forensic Sciences (AAFS) Standards Board (2025-present)

Executive Secretary of the Forensic Anthropology Subcommittee, National Institute of Standards and Technology (NIST)

Organization of Scientific Area Committees in Forensic Science (OSAC) (2024-present)

Member of the OSAC Forensic Anthropology Subcommittee (2023-present)

Moderator for Anthropology Section session at the AAFS Annual Scientific Meeting in Denver, CO (2024)

Member of the Outreach Engagement, Recruitment, and Retention (OERR) Subcommittee, AAFS Anthropology Section (2020-present)

REVIEWER

Review of original manuscript for *Forensic Anthropology* (2025)

Review of original manuscript for *Forensic Sciences* (2025)

Review of proposals submitted to the Grady Early Fellowship, Texas State University (2024)

Review of original manuscript for *Forensic Science Synergy* (2023)

Review of proposal submitted to the Austrian Science Fund (2023)

Review of original manuscript for *Science and Justice* (2022)

Review of chapter in *BIPOC Communities and Curricula*, I. Bailey, C. Sperry García, G. Reed., L.C. Sotomayor II, Eds. (2022)

FORENSIC ANTHROPOLOGY CASEWORK (CASE NUMBERS REDACTED)

EXPERT WITNESS TESTIMONY

2025 Skeletal Trauma Analysis Case, Winkler Co., TX

TEXAS CASES

2025 Trauma and Taphonomic Analysis Case Report, Tom Green Co., TX

2025 Trauma Case Consult, No Report, Lubbock Co. TX

2025 Trauma Analysis Case Report, Potter Co., TX

2025a Medicolegal Significance Case Consult, No Report, Potter Co., TX

2025b Medicolegal Significance Case Consult, No Report, Potter Co., TX

2025 Medicolegal Significance Case Consult, No Report, Runnels Co., TX

2025 Medicolegal Significance Case Consult, No Report, Ector Co., TX

2024 Recovery, Biological Profile, & Medicolegal Significance Case Report, Ector Co., TX

2024 Biological Profile & Trauma Analysis Case Report, Upton Co., TX

2023 Biological Profile & Trauma Analysis Case Report, Swisher Co., TX

2023 Biological Profile & Trauma Analysis Case Report, Ector Co., TX

2022 Biological Profile & Trauma Analysis Case Report, Winkler Co., TX

2022 Trauma Analysis Case Report, Potter Co., TX

2022 Comparative Medical Radiology Identification Case Report, Howard Co., TX

2022 Comparative Medical Radiology Identification Case Report, Ector Co., TX

2022 Comparative Medical Radiology Identification & Trauma Analysis Case Report, Ector Co., TX

2022 Comparative Medical Radiology Identification & Trauma Analysis Case Report, Ector Co., TX

2022 Comparative Medical Radiology Identification Case Report, Ector Co., TX
2021 Medicolegal Significance Case Report, Ector Co., TX

MICHIGAN CASES (REPORTS ONLY)

2019 Biological Profile & Trauma Analysis Case Report, Eaton Co., MI
2019 Biological Profile & Trauma Analysis Case Report, Van Buren Co., MI
2018 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2018 Comparative Medical Radiology Identification Case Report, Gratiot Co., MI
2018 Biological Profile, Trauma Analysis, & Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2018 Biological Profile, Trauma Analysis, & Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2017 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2017 Comparative Medical Radiology Identification Case Report, Isabella Co., MI
2017 Trauma Analysis Case Report, Macomb Co., MI
2017 Biological Profile & Trauma Analysis Case Report, Genesee Co., MI
2017 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2017 Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2017 Biological Profile Case Report, Shiawassee Co., MI
2017 Biological Profile & Trauma Analysis Case Report, Wexford Co., MI
2017 Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2017 Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2017 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2017 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2017 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2017 Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2017 Trauma Analysis Case Report, Clinton Co., MI
2017 Comparative Medical Radiology Identification Case Report, Ionia Co., MI
2017 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2016 Trauma Analysis & Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2016 Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2016 Comparative Dental Radiology Identification Case Report, Jackson Co., MI
2016 Comparative Medical Radiology Identification Case Report, Jackson Co., MI
2016 Comparative Medical Radiology Identification Case Report, Newaygo Co., MI
2016 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2016 Trauma Analysis Case Report, Ingham Co., MI
2016 Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2016 Medicolegal Significance Case Report, Presque Isle Co., MI
2016 Comparative Medical Radiology Identification Case Report, Genesee Co., MI
2016 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2016 Comparative Medical Radiology Identification Case Report, Gratiot Co., MI
2016 Comparative Medical Radiology Identification Case Report, Barry Co., MI
2015 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2015 Comparative Medical Radiology Identification Case Report, Ingham Co., MI
2015 Comparative Medical Radiology Identification Case Report, Gratiot Co., MI
2015 Comparative Dental Radiology Identification Case Report, Jackson Co., MI
2014 Trauma Analysis Case Report, Kalamazoo Co., MI

LABORATORY EXPERIENCE

Founder and Director, Anthropology Research & Identification Lab **(2021-present)**

Lead Graduate Research Assistant on National Institute of Justice-funded project "Building a Science of Cranial Fracture," Award 2015-DN-BX-K013. PI: Dr. Todd Fenton; Co-PIs Dr. Feng Wei, Dr. Roger Haut, Michigan State University (MSU). Funded by NSF GRFP **(2016-2018)**

Laboratory Manager, Michigan State University Forensic Anthropology Laboratory **(2016-2017)**

Osteologist, Roselle Skeletal Collection, Museo Archeologico e d'Arte della Maremma, Grosseto, Italy **(2015-2019)**

Graduate Assistant, Michigan State University Forensic Anthropology Laboratory **(2014-2020)**

Osteologist, Quattro Macine Skeletal Collection, Università del Salento, Lecce, Italy **(2015)**

Undergraduate Research Assistant on National Institute of Justice-funded project "Pediatric Fracture Printing: Creating a Science of Statistical Signature Analysis," Award 2011-DN-BX-K540. PI: Dr. Todd Fenton; Co-PIs Dr. Roger Haut, Dr. Anil Jain, Michigan State University. Funded through a College of Social Science Dean's Research Assistantship **(2012-2014)**

Undergraduate Research Assistant, Nubian Bioarchaeology Laboratory, Michigan State University. Funded through a Provost Undergraduate Research Initiative Fellowship **(2012-2013)**

Undergraduate Research Assistant, Nubian Bioarchaeology Laboratory, Michigan State University. Funded through a Professorial Research Assistantship **(2010-2012)**

ARCHAEOLOGICAL EXPERIENCE

Field crew member, Interconnected Mobility of People and Economy along the River Ombrone (IMPERO) Archaeological Project, Civitella Paganico, Italy. Director: Dr. Alessandro Sebastiani **(2018-2019)**

Graduate Research Fellow, Michigan State University Campus Archaeology Program (CAP), East Lansing, MI. Directors: Dr. Lynne Goldstein, Dr. Stacey Camp. **(2016-2019)**

Field crew member, Belize River East Archaeological (BREA) Survey Project. Director: Dr. Eleanor Harrison-Buck **(2014)**.

Field school student, Central Belize Archaeological Survey (CBAS). Director: Dr. Gabriel Wrobel **(2013)**.