MARIYAM (MARI) ISA
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EDUCATION

2020 Ph.D. in Anthropology
Michigan State University, East Lansing, MI
Dissertation: *Experimental investigations of blunt force trauma in the human skeleton*
Funding: National Science Foundation Graduate Research Fellowship (Award DGE1424871)

2016 M.A. in Anthropology
Michigan State University, East Lansing, MI

2014 B.S. in Anthropology with High Honor
Michigan State University, East Lansing, MI

2014 B.S. in Human Biology with High Honor; Honors College
Michigan State University, East Lansing, MI

AREAS OF INTEREST

Forensic anthropology, osteology, skeletal biology, human variation, skeletal trauma, bone biomechanics, fractography, forensic identification, comparative medical radiology, cold cases, intersection of sex and gender in forensic anthropology, ethics in forensic anthropology

EMPLOYMENT

Current Academic Position

2020-present Assistant Professor of Anthropology
Department of Sociology, Anthropology, & Social Work
Texas Tech University

Other Academic Affiliations

2022-present Adjunct Faculty Member
Department of Environmental Toxicology
Texas Tech University

2021-present Affiliate Faculty Member
Women & Gender Studies Program
Texas Tech University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2023-present Organization of Scientific Area Committees Forensic Anthropology Subcommittee
2015-present American Academy of Forensic Sciences
2020-2022 Trans Doe Task Force Professional Allies
2015-2019 Michigan Mortuary Response Team

PUBLICATIONS (†denotes student researcher supervised)

Books

2022 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.

Book Chapters (Refereed)

2023 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.

Journal Articles (Refereed)

Submitted D.E. Edwards†, **M.I. Isa**. Effects of projectile kinetic energy and firearm-to-target distance on fracture behavior in flat bones. *Journal of Forensic Sciences,* under review.

2023 **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.

2023 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*).

2023 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*).

2022 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.

2021 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.

2021 **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.

2019 **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.

2018 **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.

2017 **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.

Other Publications and Technical Reports

2018 Fenton TW, Wei F, Haut RC, principal investigators. Report prepared by **Isa MI**. *Final Project Overview*: *Building A Science of Adult Cranial Fracture*. National Institute of Justice Award No. 2015-DN-BX-K013.

2015 Morton SG, **Isa MI**, Wrobel GD. 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* 12: 107-114.

PROFESSIONAL PRESENTATIONS (†denotes student)

Invited Presentations

2022 A.M. Christensen, **M.I. Isa**. Webinar: "Forensic fractography of bone: A new (and approachable!) model for skeletal trauma analysis." Forensic Technology Center of Excellence in collaboration with the Society of Forensic Anthropologists Webinar Series; Virtual. November 2, 2022.

2021 Trans Doe Task Force (presenters in alphabetical order: S.H. Blatt, T.M. Flaherty, **M.I. Isa**, A.R. Michael, A. Redgrave, L. Redgrave, J. Veltstra). Conference Presentation: "Identifying Transgender and Gender Expansive Decedents Using Forensic Anthropology and Genetic Genealogy Methods." 18th Annual Chico Forensic Science Conference; Virtual. November 6, 2021.

2019 **M.I. Isa.** Conference lecture: "Experimental Approaches to the Interpretation of Blunt Force Cranial Fracture." Minnesota Coroners' and Medical Examiners' Association 36th Annual Forensic Science Seminar; Minneapolis, MN. October 3-4, 2019.

Conference Presentations

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.

2023 D.F. Edwards†, **M.I. Isa**. "Investigation of gunshot homicides in the New Mexico Decedent Image Database." American Academy of Forensic Sciences 75th Annual Scientific Meeting; Orlando, FL. February 13-17, 2023.

2023 **M.I. Isa**, A.R. Michael, C. Wainer†. "Research needs vs. publication trends in forensic anthropology." American Academy of Forensic Sciences 75th Annual Scientific Meeting; Orlando, FL. February 13-17, 2023.

2022 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.

2022 T.M. Flaherty, A. Dizon, J. Byrnes, S.H. Blatt, **M.I. Isa**, A.R. Michael. "An analysis of lethal anti-transgender violence and forensic disempowerment using the Transgender Day of Remembrance Database." American Association of Biological Anthropologists 91st Annual Meeting; Denver, CO. March 23-26, 2022.

2022 A. Redgrave, J. Veltstra, A.R. Michael, S.H. Blatt, **M.I. Isa**. "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 14-18, **2022**.

2022 **M.I. Isa**, A.R. Michael, S.H. Blatt, T.M. Flaherty. "Centering gender inclusive strategies in forensic anthropology." American Academy of Forensic Sciences 74th Annual Scientific Meeting; Seattle, WA. February 14-17, 2022.

2021 **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." American Academy of Forensic Sciences 73rd Annual Scientific Meeting; Virtual. February 15-19, 2021.

2021 A.R. Michael, **M.I. Isa**, A. Redgrave, L. Bingham Redgrave. "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.

2020 **M.I. Isa**, T.W. Fenton, L.A. Antonelli, P.E. Vaughan, F. Wei. "Application of fractography in trauma analysis of complex long bone fractures." American Academy of Forensic Sciences 72nd Annual Scientific Meeting; Anaheim, CA. February 17-21, 2020.

2020 A.R. Michael, **M.I. Isa**, A. Redgrave, L. Bingham Redgrave. "Collaborative approaches in the identification of transgender and gender variant decedents." American Academy of Forensic Sciences 72nd Annual Scientific Meeting; Anaheim, CA. February 17-21, 2020.

2019 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.

2019 **M.I. Isa**, T.W. Fenton, A.C. Goots, F. Wei, R.C. Haut. "Experimental investigation of blunt force fracture in the human mandible." American Academy of Forensic Sciences 71st Annual Scientific Meeting; Baltimore, MD. February 18-23, 2019.

2018 **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.

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 American Academy of Forensic Sciences 70th Annual Scientific Meeting; Seattle, WA. February 19-24, 2018.

2018 **M.I. Isa**, T.W. Fenton, A.C. Goots, E.O. Watson, P.E. Vaughan, F. Wei, R.C. Haut. "Initiation and propagation of fractures in blunt impacts to unconstrained human cadaver heads." American Academy of Forensic Sciences 70th Annual Scientific Meeting; Seattle, WA. February 19-24, 2018.

2018 E.O. Watson, T.W. Fenton, **M.I. Isa**, P.E. Vaughan, F. Wei, R.C. Haut. "The influence of implement shape on fracture pattern and defect size in experimental blunt cranial impacts." American Academy of Forensic Sciences 70th Annual Scientific Meeting; Seattle, WA. February 19-24, 2018.

2018 A.C. Goots, **M.I. Isa**, T.W. Fenton, E.O. Watson, P.E. Vaughan, F. Wei, R.C. Haut. "Estimating points of impact in multiple blunt force cranial trauma: lessons from experimental impacts." American Academy of Forensic Sciences 70th Annual Scientific Meeting; Seattle, WA. February 19-24, 2018.

2017 **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.

2017 J.A. Biggs, A.R. Michael, **M.I. Isa**. "Congenital anomalies as evidence of biological affinity among Maya burials in caves and rock shelters in Central Belize." Midwest Conference on Mesoamerican Archaeology and Ethnohistory; Detroit, MI. March 10-11, 2017.

2017 **M.I. Isa**, T.W. Fenton, P.E. Vaughan, F. Wei, R.C. Haut. "Concentrated 4-point bending and fracture behavior in human femora." American Academy of Forensic Sciences 69th Annual Scientific Meeting; New Orleans, LA. February 13-18, 2017.

2016 **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.

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**.

2016 **M.I. Isa**, T.W. Fenton, P.E. Vaughan, R.C. Haut. "Understanding the role of contact area in adult cranial fracture variation." American Academy of Forensic Sciences 68th Annual Scientific Meeting; Las Vegas, NV. February 22-27, 2016.

2015 **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.

2015 **M.I. Isa**, T.W. Fenton, T.S. DeLand, R.C. Haut. "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.

2015 T.W. Fenton, **M.I. Isa**, P.E. Vaughan, R.C. Haut. "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.

2014 **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.

2014 **M.I. Isa**, T.W. Fenton, J.M. Vollner, E.R. Niespodziewanski, T.S. DeLand, J. DeJong, R.C. Haut. "Fracture initiation and propagation in pediatric blunt cranial trauma." American Academy of Forensic Sciences 66th Annual Scientific Meeting; Seatle, WA. February 17-22, 2014.

2013 **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.

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 Workshop Organization

2022 Co-organizer for the "Queered Science: Interdisciplinary Approaches to Gender-Inclusive Research" symposium. American Academy of Forensic Sciences 74th Annual Scientific Meeting; Seattle, WA. February 14-17, 2022.

2021 Co-organizer for the "TRANScending Jane and John Doe: The Impact of Gender Identification in Forensic Cold Cases." Workshop hosted by Idaho State University; Virtual. April 2, 2021.

FUNDING

Research Funding

2023 **Agency**: Forensic Sciences Foundation
Award: Douglas M. Lucas Grant ($3,656.37)
Title: Computational approaches to modeling fracture patterns in bone: a novel approach using peridynamics
Principal Investigator: **M. Isa**, Co-PI: V. Howle
Result: **awarded**

2023 **Agency**: Forensic Sciences Foundation
Award: Kenneth S. Field Grant ($1,465.05)
Title: How do muzzle velocity and bullet grain influence fracture patterns in bone? A quantitative approach to the investigation of gunshot trauma
Principal Investigator: **M. Isa**, Co-PI: D. Edwards
Result: **awarded**

2021 **Agency**: Texas Tech University Office of Research and Innovation
Award: Proposal Assistance Program ($3,189)
Title: Establishing classification rates for skeletal trauma
Principal Investigator: **M. Isa**, Co-PI V. Howle
Result: **awarded**

2020 **Agency**: Michigan State University Graduate School
Award: Dissertation Completion Fellowship ($7,000)
Title: Experimental investigations of blunt force trauma in the human skeleton
Investigator: **M. Isa**
Result: **awarded**

2018 **Agency**: Michigan State University College of Social Science
Award: Research Scholars Award, MSU ($2129)
Title: Osteological analysis of human remains from Roman Russellae, Italy
Investigator: M. Isa
Result: **awarded**

2017 **Agency**: Michigan State University
Award: Kenneth E. Corey Research Enrichment Award ($2,082)
Title: Investigation of micro-spatial histological variation in the human ribs and the resultant effect on age at death estimation
Investigators: **M. Isa**, J. Biggs
Result: **awarded**

2015 **Agency**: National Science Foundation
Award: Graduate Research Fellowship ($34,000 / year stipend x 3 years)
Title: Experimental investigations of blunt force trauma in the human skeleton
Investigator: M.Isa
Result: awarded

Other Funding

2020 Forensic Science Foundation Student Travel Grant ($1500)
2014 Michigan State University Rasmussen Graduate Fellowship Award ($5,000)

HONORS AND AWARDS

2022 Outstanding Faculty Mentor, Texas Tech University Center for Transformative Undergraduate Experiences
2014 Ellis R. Kerley Paper Award, Ellis R. Kerley Forensic Sciences Foundation
2014 Grand Prize, Michigan State University Undergraduate Research and Arts Forum
2013 Phi Beta Kappa
2012 Phi Kappa Phi

TEACHING

Texas Tech University

Undergraduate Courses Taught

2022-present ANTH 4343: Methods in Forensic Anthropology
2022 ANTH 3314: Human Osteology
2021-2022 ANTH 4343: Human Skeletal Biology and Forensic Techniques
2020-present ANTH 3303: Forensic Anthropology
2020-present ANTH 4320: Forensic Archaeology

Graduate Courses Taught

2022-present ANTH 5319: Special Topics in Biological Anthropology – Skeletal Trauma and Taphonomy
2022 ANTH 5319: Special Topics in Biological Anthropology – Human Osteology
2022 ANTH 7000: Independent Study – Radiological Methods in Forensic Anthropology
2020-present ANTH 5319: Special Topics in Biological Anthropology – Cold Cases in Forensic Anthropology

Michigan State University

Undergraduate Courses Taught (Instructor of Record)

2019 ANP 441: Human Osteology and Forensic Anthropology
2016 ANP 370: Women and Health

MENTORING

Chair of Master's Committees

Maxwell Howard, anticipated **2024**
Thesis title: Age and Exercise Effects on Humeral Metric Sex Estimation
Program: Texas Tech University Anthropology M.A.

Carter Unger, anticipated **2024**
Thesis title: Regional and Seasonal Effects on Long Bone Fracture Characteristics
Program: Texas Tech University Anthropology M.A.

Delaney Edwards, degree conferred **2023.**
Thesis title: Investigation of Fracture Morphology in Gunshot Trauma
Program: Texas Tech University Anthropology M.A.

Member of Master's Committees (Thesis Track)

Lillian Antonelli, anticipated **2024**
Thesis title: A Biomechanical Evaluation On Non-Human Analogues In Bone Fracture Research
Program: California State University, Chico Anthropology M.A.

A. Celeste Medrano, degree conferred **2023**.
Thesis title: Assessment of Decomposition Training Aids Using a Controlled Experiment Framework
Program: Texas Tech University Forensic Science (Chemistry) M.S.

Kaitlyn Fulp, degree conferred **2021**.
Thesis title: A Study of Decomposition in the Arizona Sonoran Desert Using Pigs
Program: Texas Tech University Anthropology M.A.

Member of Master's Committees (Non-Thesis Track)

Ariel Noriega, anticipated **2024.**
Program: Texas Tech University Anthropology M.A.

Catherine Tennison, anticipated **2024.**
Program: Texas Tech University Anthropology M.A.

Tiffany Seeker, anticipated **2024.**
Program: Texas Tech University Forensic Science (Investigation) M.S.

Mary Festa, degree conferred **2023.**
Project title: Uncovering the Impact of Cranial Blunt Force Trauma in Forensic Investigation
Program: Texas Tech University Forensic Science (Investigation) M.S.

Sara Sidor, degree conferred **2023**.

Project title: Pathological Analysis of Homicidal and Suicidal Asphyxia Trauma Produced by Ligatures

Program: Texas Tech University Forensic Science (Investigation) M.S.

Katherine Titus, degree conferred **2022**.

Project title: Final Disposition of Remains in Homicide Investigations: A Review of the Literature and Investigative Impacts

Program: Texas Tech University Forensic Science (Investigation) M.S.

Undergraduate Mentorship with Specific Outcomes

Catherine Wainer (**2022-2023**)

Project: Research Needs vs. Publication Trends in Forensic Anthropology

Outcomes: Student 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

Program: Texas Tech University Transformative Undergraduate Experiences (TrUE) Scholars Program.

Outcomes: Student presented at the TTU Undergraduate Research Conference and was awarded First Place in the Social Constructs Impact category.

Lillian Antonelli (**2019-2020**)

Project: Assessing the Usefulness of Fractography in Skeletal Trauma Analysis

Outcomes: Student presented research at the Michigan State University (MSU) Anthropology Symposium and the MSU University Undergraduate Research Conference. Student was also a contributing author on a related paper published in *Forensic Science International*.

PROFESSIONAL SERVICE

Committee Service

2023-2026	Medicine Scientific Area Committee, Forensic Anthropology Subcommittee Member Organization of Scientific Area Committees (OSAC) for Forensic Science
2023-2024	Organizing Committee Member 2nd Annual Forensic Anthropology Meeting
2022-2023	Organizing Committee Member 1st Annual Forensic Anthropology Meeting
2020-present	Outreach, Engagement, Recruitment, and Retention Committee Member American Academy of Forensic Sciences Anthropology Section

Reviewer

2023	*Forensic Science International: Synergy*
2022	*Science & Justice*
2022	*BIPOC Alliances: Building Communities and Curricula* Edited Volume; The Curriculum and Pedagogy Group

Forensic Case Reports (case numbers redacted)

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
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

Law Enforcement Training Course

2022 Presented course for Texas Commission on Law Enforcement (TCOLE) titled "Forensic Anthropology and the Recovery of Human Remains." Odessa Police Department Training Facility; Odessa, TX. August 9, 2022.

OTHER ACTIVITIES

Public Lectures

2023 **M. Isa.** A Forensic Anthropology Perspective on the Crisis of Missing and Murdered Indigenous Women and Girls. Texas Tech University Library Series; Lubbock, TX. March 6, 2023.

2019 **M. Isa**. The Science of Broken Bones. Indiana Medical History Museum Forensic Science Lecture Series; Indianapolis, IN. October 16, 2019.

Laboratory Activities

2020-present Director
Texas Tech University Forensic Anthropology Laboratory

2016-20 Lead Graduate Research Assistant
Project: Building A Science of Adult Cranial Fracture.
Funding: *National Institute of Justice* (NIJ 2015-DN-BX-K013).

2016-17 Laboratory Manager
Michigan State University Forensic Anthropology Laboratory

2015-19 Osteologist
Analysis of Roselle Skeletal Collection
Museo Archaeologico e d'Arte della Maremma, Grosseto, Italy.

2014-20 Graduate Assistant in Forensic Anthropology
MSU Forensic Anthropology Laboratory

Field Activities

2018-19 Field Crew Member
Project: Interconnected Mobility of People and Economy along the River Ombrone (IMPERO) Archaeological Project.
Directors: A. Sebastiani, M. Hobart.

2016-19 Graduate Fellow
Project: Michigan State University Campus Archaeology Program.
Directors: L. Goldstein, S. Camp.

2014 Field Crew Member
Project: Belize River East Archaeological (BREA) Survey Project.
Director: E. Harrison-Buck.