Theresa M. De Cree

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Education

PhD in Applied Anthropology (2022- Present)

Texas State University, San Marcos, TX; GPA: 4.00
Advisor: Daniel Wescott, PhD
Expected Graduation: May 2027

MS in Anthropology with a concentration in Biological and Forensic Anthropology (2019-2021)

Mercyhurst University, Erie, PA; GPA 3.94
Advisors: Dennis C. Dirkmaat, PhD D-ABFA and Luis Cabo, MS
Graduation: May 2021 Summa Cum Laude
Thesis: *Estimation of the Postmortem Interval Based on Co/NCo Ratios in Bone*

BA in Anthropology with a Physical concentration, with a minor in Creative Writing (2015 – 2018)

University of Pittsburgh, Pittsburgh; PA; GPA 3.59
Advisor: Margaret Judd, PhD
Graduation: May 2018 *Magna Cum Laude*
Thesis: *Mobility and Injury: A Comparative Study of Historic Bedouin and Nubian Agriculturalists*

Research Interests

Orthopedic medical devices, biomechanics of osseointegration and bony ingrowth, forensic anthropology, bioarcheology, human skeletal biology, gross anatomy, skeletal trauma analysis, biomechanics of trauma, fragmentary human osteology, sex determination, menopause effects on bones, DNA, histology, forensic odontology, bioarcheology of care, case outcomes and standards of practice in forensic anthropology

Skills

Biological Profile analysis (FORDISC, 3Skull, ADBOU, TA2, TA3), skeletal data collection (trauma, pathology, and taphonomy analysis), scene and laboratory photography, forensic archeological survey and recovery, mass disaster scene processing, evidence handling, provenience tracking, body processing and maceration, autopsy assistance, anatomy dissection, *mapping (Hand drawn maps,* ArcMap, ArcGIS Pro, Trimble Total Station mapping, RTK mapping, Gradiometer, Ground Penetrating Radar), *3D scanning* (EinScan Pro, Artec Spyder, RevoPoint), radiography (NOMAD Handheld Portable, Regius Console, MaxRay Cacoon, NSI x5000 Micro-CT Scanner) safety and use, 3D imaging and analysis (MatLab, Avizo, ImageJ (BoneJ), database entry and management, Microsoft Access, Adobe Creative Cloud Suite,Adobe Acrobat, Excel, SPSS, Photoshop

Professional Experience

2022-Present **Forensic Case Manager**, Forensic Anthropology Center at Texas State University, San Marcos, TX
Maintain physical and electronic case records, seek grant funding for DNA, FGG, and isotope testing for Identification, organize reanalysis efforts, take DNA samples, compose SOPs for forensic anthropological case work, perform forensic case work (biological profile, trauma, pathology, and taphonomy)

Jan 2026-Present **Anthropology Intern,** Bexar County Medical Examiner's Office, San Antonio, TX
Attend autopsies, assist in special dissections to determine skeletal trauma, work on developing proficiencies for the ABFA Analyst exam, radiographic age estimation, radiographic comparisons for ID, trauma analysis, manage and compare missing and unidentified persons data

May-June 2025 **Archaeological Technician II**, Defense POW/MIA Accounting Agency, Rennes, France
Pedestrian survey, gradiometer, GPR, shovel test pits, feature excavation, artifact documentation

2024 **CT Extern**, University of Texas Computed Tomography Lab, Austin, TX
Manage and process CT data for uploading to MorphoSource, Assist in summer short course on 3D image analysis software (Dragonfly,Blender, Avizo), assisted in the organization of annual conference

2022-2024 **Doctoral Instructional Assistant**, Texas State University, San Marcos, TX
Curation of the Texas State Donated Skeletal Collection, including donor skeletal and dental inventories, inventory photos, photoshopping inventory photos, filing inventories and photos, updating the TXSTDSC database regarding curation, maintain the cleanliness of the lab, generate photographs and 3D scans for Collaborative Testing Services (Human vs. Non-Human and Sex Estimation Proficiency Tests)

2021-2022 **Deputy Coroner**, Northampton County Coroner's Office, Nazareth, PA
Attend scene and autopsies to gather information to aid Coroner in the determination of manner and cause of death, assist in human/ nonhuman identification of skeletal remains and human biological profile and trauma analysis, proofread autopsy reports, Quality assurance on case reports, gather toxicology specimens, prescription medication identification and documentation, evidence processing, and maintain chain of custody

2020-2021 **Health and Safety Manager**, Department of Applied Forensic Sciences, Forensic Anthropology Laboratory, Mercyhurst University
Aided in Blood Borne Pathogen Training, arranged proper disposal of chemicals, successfully coordinated government safety inspections, wrote radiation safety protocols, Arranged dosimetry for laboratory

2020-2021 **Technology and Equipment Manager**, Department of Applied Forensic Sciences, Forensic Anthropology Laboratory, Mercyhurst University
Maintained and updated department equipment and software, renewed licensing for software, troubleshoot equipment, created protocols for equipment use, Prepared data files for analysis

2019 –2021 **Graduate Assistant**, Residence Life, Mercyhurst, Mercyhurst University
The development of protocols for lost keys, check-ins, and check-outs, Correspondence via phone and email with students and parents, facilitate communication in the office, organizing files, Assisting the Director in the enrollment of students in meal plans, Preparation and execution of projects as needed

2019-2021 **Graduate Forensic Anthropologist**, Department of Applied Forensic Sciences, Mercyhurst University
Forensic casework (160+ hours), Forensic archaeological recovery (Phase II and III) and forensic osteological analyses, Postmortem Interval estimation, Trauma and Pathology Analysis, learned collection protocols for biometric fingerprint data

2018 **Intern** in the Autopsy and Death Investigation Units, Medical Examiner's Office of Alleghany County
120-hour Internship, operated LODOX X-ray machine, collected cultures and blood samples, assisted in eviscerations, accompanied death investigation units to the scene

2017-2018 **Bioarchaeology Research Assistant**, Anthropology Department, University of Pittsburgh
Worked with commingled fragmentary remains from an archaeological site, cleaned, sorted, and registered bone fragments, collected data on bone side and type, managed fragment database

Teaching Experience

Texas State University

Spring 2026	Human Osteology (Instructor of Record)	ANTH3381
Fall 2025	Human Osteology (Instructor of Record)	ANTH3381
Spring 2025	Human Osteology (Instructor of Record)	ANTH3381
Fall 2024	Human Osteology (DIA)	ANTH3381
Spring 2024	Human Osteology (DIA)	ANTH3381
Fall 2023	Human Osteology (DIA)	ANTH3381
Spring 2023	Field Methods in Forensic Anthropology (DIA)	ANTH4326
Fall 2022	Advanced Skeletal Methods II (DIA)	ANTH5376

Mercyhurst University, Erie PA

Spring 2021	Human Skeletal Biology II and Lab (TA)	ANTH333/334
Fall 2020	Human Osteology and Lab (TA)	ANTH326/327

Posters and Presentations

2026 Javier Garcia, **Theresa De Cree**. *The importance of projectile trauma analysis training for undergraduate students.* Poster Presentation at the Texas Academy of Science 129th Annual Meeting, Tyler, Texas. (Accepted)

2026 **Theresa De Cree**, James Myrick, Daniel Wescott. *Evaluating bone strength in press-fit versus cement-fit arthroplasty via micro-CT.* Poster Presentation at the Texas Academy of Science 129th Annual Meeting, Tyler, Texas. (Accepted)

2026 **Theresa De Cree,** Daniel Wescott. *A Comparative Macroscopic Study of Bone Quality and Fracture Frequency in Individuals With and Without Arthroplasty*. Poster Presentation at American Academy of Forensic Sciences 78th Annual Scientific Meeting, New Orleans, Lousiana.

2025 **Theresa De Cree**, Shelby Garza, Emily Brooks, Emma Giacomello. *Detecting Peri- and Post-Menopausal Bone Changes Utilizing Micro-CT for Forensic Anthropology.* Poster Presentation at American Academy of Forensic Sciences 77th Annual Scientific Meeting, Baltimore, Maryland.

2025 **Theresa De Cree**. *Bone Fracture Trends in Elderly Individuals with Arthroplasty.* Poster Presentation at the Texas Academy of Science 128th Annual Meeting, Waco, Texas.

2024 **Theresa De Cree**, Emma Giacomello, Michelle Hamilton, Yasmin Mancero Tello. *The Impact of Case Protocol and Decedent Demographics on Positive Identification in Forensic Anthropology.* Poster presentation at the 93rd Meeting of the American Association of Biological Anthropology, Los Angeles, California.

2024 Emilie Wiedenmeyer, **Theresa De Cree**, Michelle Hamilton. *The Evolution of Forensic Anthropological Casework: Exemplifying the Importance of Routine Reanalysis of Long-Term Unidentified Remains at the Forensic Anthropology Center at Texas State (FACTS)*. Poster Presentation at American Academy of Forensic Sciences 76th Annual Scientific Meeting, Denver, Colorado.

2024 **Theresa De Cree**, Emma Giacomello, Michelle Hamilton, Elizabeth Moore, Katie Gerstner. *Antemortem Trauma and Trauma Reporting in the Texas State Donated Skeletal Collection.* Poster Presentation at American Academy of Forensic Sciences 76th Annual Scientific Meeting, Denver, Colorado.

2024 **Theresa De Cree**, Ivanna Robledo, Emily Brooks, *Skeletal Indicators of Down Syndrome: A Case Study in Forensic Anthropology.* Poster Presentation at American Academy of Forensic Sciences 76th Annual Scientific Meeting, Denver, Colorado

2023 **Theresa De Cree**, Stephanie A. Baker, Daniel J. Wescott, Devora Gleiber. *Structural Differences in Trabecular Bone of Individuals with Normal and Obese BMI Scores*. Poster Presentation and Lightening talk at 10th Annual TOSCA Meeting, University of Texas at Austin, Austin, TX.

2023 **Theresa De Cree**, Emma Giacomello, Katie Gerstner, Rose Moore, Michelle Hamilton. *Antemortem Trauma and Trauma Reporting in the Texas State Donated Skeletal Collection*. Poster Presentation at the Texas State University Graduate Research Conference, Texas State University, San Marcos, TX.

2022 **Theresa De Cree**, Luis Cabo. The Evaluation of Postmortem Interval Using Collagenous to *Non-Collagenous Ratios in Skeletal Remains: A Validation Study*, Poster Presentation at American Academy of Forensic Sciences 74th Annual Scientific Meeting, Seattle, WA.

2022 Emily Brooks, **Theresa De Cree**, Kaitlyn Bolhofner. *Collagen Denaturalization in Porcine Femora: Maceration and its Effect on Co/NCo Ratios.* Poster presentation at the 91st Meeting of the American Association of Biological Anthropology, Denver, CO. (Online format)

2021 Sarai Colon, Emily R. Brooks, **Theresa M. De Cree**, Samantha Lafrance, Luis L. Cabo, and Leslie Fitzpatrick. *A Pilot Study of Qualitative and Quantitative Methodologies for Commingled Remains*. Poster presentation at the 90th Meeting of the American Association of Biological Anthropology, Baltimore, MA. (*Online format*)

2021 Emily Brooks, **Theresa De Cree**, Nora Butterfield, and Luis L. Cabo. *A Pilot Study of Geomorphometric Sex Estimation on the Pelvis*. Poster Presentation at American Academy of Forensic Sciences 73rd Annual Scientific Meeting. (*Online Format*) Forensic Sciences Foundation, Student Scholarship Award

2021 Emily Brooks, **Theresa De Cree**, Victoria Lamond, Samantha LaFrance, Colleen Peters, Luis L. Cabo. *A Pilot Study on Measurement Error on 2D and 3D Images in Forensic Anthropological Applications*. Poster Presentation at American Academy of Forensic Sciences 73rd Annual Scientific Meeting. (*Online Format*)

2020 Emily Brooks, **Theresa De Cree**, Victoria Lamond, Samantha LaFrance, Colleen Peters, Luis L. Cabo. *A Pilot Study on 2D and 3D Image Distortion: A Forensic Anthropological Approach*. Poster presentation at the Tom Ridge 16th Annual Research Consortium, Erie, PA. (*Online format*).

2020 Emily Brooks, **Theresa De Cree**, Nora Butterfield, Luis L. Cabo. *Sex Estimation of the Pelvis on Skeletal Remains: A Pilot Study*. Poster presentation at the Tom Ridge 16th Annual Research Consortium, Erie, PA. (*Online format*) 2nd Place Overall Graduate Oral Presentation, Dr. Jerry Covert Award

2017 **Theresa De Cree**. *Trauma in an Iron Age Nomadic Group from Wadi ath-Thamad, Jordan*. Poster Presentation, Lambda Alpha Research Symposium, University of Pittsburgh, Pittsburgh, PA.

Invited Lectures

2025 **Theresa De Cree**. *Careers in Forensic Anthropology.* Invited lecture, Professionalization in Anthropology, Texas State University, San Marcos, TX.

2024 **Theresa De Cree**. *UTCT Internship.* Invited lecture, Professionalization in Anthropology, Texas State University, San Marcos, TX.

2022 **Theresa De Cree**. *Bone Pathology.* Invited lecture, Advanced Skeletal Methods II, Texas State University, San Marcos, TX.

2022 **Theresa De Cree**. *Bone Histology in Forensic Anthropology.* Invited lecture, Advanced Skeletal Methods II, Texas State University, San Marcos, TX.

2021 **Theresa De Cree**. *XRF and PMI Estimation*. Invited lecture, Forensic Taphonomy, Mercyhurst University, Erie, PA.

2021 **Theresa De Cree**. *Juvenile Age Estimation*. Invited lecture, Human Osteology II, Mercyhurst University, Erie, PA.

2020 **Theresa De Cree**. *Upper Limb Anatomy*. Invited lecture, Human Osteology, Mercyhurst University, Erie, PA.

2020 **Theresa De Cree**. *Bioarchaeology and Forensic Anthropology*. Invited lecture, Introduction to Physical Anthropology, Mercyhurst University, Erie, PA.

2018 **Theresa De Cree**. *The Importance of Forensic Anthropology in Medicolegal Investigations*. Internship Presentation, Allegheny County Office of the Medical Examiner, Pittsburgh, PA.

2017 **Theresa De Cree**. *Medical Examiner Internships*. Invited lecture, Introduction to Forensic Anthropology, University of Pittsburgh, Pittsburgh, PA.

External Research Experience

2021 Tooth Hop per Inch (TPI) Determination Practices for Saw Mark Analysis, Mercyhurst and Clarkson Universities
2017-2018 Eustachian Tube Dysfunction, UPMC Children's Hospital, Pittsburgh, PA
2017 Sexual dimorphism of the pelvis as influenced by hormone replacement therapy, University of Pittsburgh, Hamann Todd Collection

Publications

2024 Gignac, P. M., Aceves, V., Baker, S., Barnes, J. J., Bell, J., Boyer, D., **De Cree,T** ... & Zobek, C. M. (2024). The Role of Networks to Overcome Large-scale Challenges in Tomography: The Non-Clinical Tomography Users Research Network. Tomography of Materials and Structures, 100031.

Awards and Grants

2026 Texas State University, Doctoral Student Incentive Program, Spring 202, **$3,216**
2025 Texas State University, Doctoral Student Incentive Program, Fall 2025, **$3,216**
2025 Texas State University, Doctoral Student Incentive Program, Spring 2025, **$3,216**
2024 National Institute of Justice, Graduate Research Fellowship Program, CO-PI, **$180,000**
2024 NoCTURN Travel Scholarship, **$1,800** for travel expenses to attend the NoCTURN conference
2024 Grady Early Fellowship, **$12,902** for research expenses
2024 Texas Academy of Sciences, Third Place Research Award Competition, **$1,000** for research expenses
2023, 2024 Texas State University, PhD Retention Scholarship, Tuition for four semesters, **$7,505**
2023 TOSCANA Travel Award, For 10th Annual TOSCA Meeting in Austin, TX, award included travel, accommodations, and conference registration
2021 Summa Cum Laude Honors, Department of Applied Forensic Sciences, Mercyhurst University
2021 Forensic Sciences Foundation, Student Scholarship Award, AAFS 73rd Annual Scientific Meeting
2020 2nd Place Overall Graduate Oral Presentation, Dr. Jerry Covert Award, Tom Ridge 16th Annual Research Symposium
2020 Session Viewership Award, Tom Ridge 16th Annual Research Symposium
2018 Magna Cum Laude Honors, Anthropology Department, University of Pittsburgh
2017 Summer Undergraduate Research Award (SURA) **$3,500**, University of Pittsburgh
2016, 2017 Dean's List, University of Pittsburgh

Service

Departmental and University Service

2023-Present Vice Chair of the Anthropology Section, Texas Academy of Sciences
2025 FACTS Fire Course- at Texas State University
2024 FACTS Osteology Lectures at Texas State University
2023 FACTS Fire Course- at Texas State University
2023 FACTS Forensic Methods Summer Course- at Texas State University
2022 FACTS Lecture- at Texas State University for Texas School for the Deaf
2022 FACTS Fire Course- at Texas State University
2022 FACTS Mass Grave Project- at Texas State University
2019 History's Mysteries: Forensic Anthropology and Bioarcheology – Mercyhurst Prep, Erie, PA
2019 *Think and Drink Event*: Forensic Anthropology Table– Cleveland Museum of Natural History
2018 *Anthropology Day* – University of Pittsburgh

2017 Majors and Minors Fair: Anthropology – University of Pittsburgh
2017-2018 Business Manager: Anthropology Club and Lambda Alpha Honors Society – University of Pittsburgh

Mentoring

Fall 2022- Present **FACTS Intern Supervisor**, provide training each semester for FACTS interns on 3D scanning, CT scan reconstruction and analysis, supervise undergraduate research projects and assist in abstract submission for scientific conferences

Spring 2025 **Second Reader**, the Honors Capstone of Maria Jose Castro Doumolin, Subadult Long Bone Stature Validation and Comparison Using KidStats: Stature and FORDISC 3.1

Professional Organization and Honor Society Membership

Since 2023 *Phi Kappa Phi* Honors Society
Since 2020 American Association of Biological Anthropologists, Student Member
Since 2019 American Academy of Forensic Sciences, Anthropology, Student Affiliate
Since 2015 *Lambda Alpha* Anthropology Honors Society

Languages

Conversational fluency in **Spanish**

References available upon request