

Alicia R. Morgan (Grosso)

Department of Physical Therapy | Clarkson University
8 Clarkson Ave., Potsdam, New York 13699

Education

PhD in Anthropology with a concentration in Physical Anthropology (2014 – April 2020)

University of Pittsburgh, Pittsburgh, PA

Advisor: Michael Siegel, PhD

Dissertation: Tissue Variability Effects on Saw Mark Evidence in Bone

MS in Anthropology with a concentration in Biological and Forensic Anthropology (2011 – 2013)

Mercyhurst University, Erie, PA; GPA 3.929

Advisor: Dennis C. Dirkmaat, PhD D-ABFA

Graduation: December 2013 with Sister Eustace Taylor Award in Anthropology

Thesis: Evaluation of Saw Blade Teeth-Per-Inch Measurements in Bone: Considerations for Validation Studies

BS in Applied Forensic Sciences with a double concentration in Forensic Anthropology and Criminalistics/Forensic Biology (2007 – 2011)

Mercyhurst College, Erie, PA; GPA 3.925

Advisor: Steven A. Symes, PhD D-ABFA

Graduation: May 2011 *Summa Cum Laude*, Mercyhurst Honors Student

Thesis: A Craniometric Study of *Odocoileus virginianus*, *Felis domesticus*, and *Lynx rufus*: Principal Component Analysis with Varied Biological Classifications

Research Interests

Human skeletal biology, forensic anthropology, gross anatomy, skeletal trauma analysis, geometric morphometrics, skeletal remodeling, toolmark analysis, biomechanics of trauma, bone tissue variability, fragmentary human osteology, comparative vertebrate osteology

Technical Expertise

Microscopic analysis

Stereomicroscope: Leica M165C with flexicam camera (*in-house lab microscope*)

Skeletal trauma analysis (blunt force, sharp force, sharp-blunt, ballistic)

Most experience with microscopic saw mark analysis

General Technical skills

Gross human dissection

Maceration (removal of soft tissue for skeletal preservation)

Fragmentary human osteology

Zooarchaeology/comparative vertebrate osteology

Forensic anthropological techniques (biological profile estimation, forensic archaeological recovery of outdoor crime scenes, fire scenes, and mass disasters, etc.)

Photography

Computer and statistical software

LAS X (Leica microscope)

Statistical Package R, Excel, and Morpho J (some experience with Stata)

ORS Dragonfly

Stratovan Checkpoint

Photoshop and Gimp

Microsoft Office

Professional Experience

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|-------------|---|
| 2020 – | Assistant Professor – Department of Physical Therapy, Clarkson University |
| 2020 – | Pre-PT Student Advisor – Department of Physical Therapy, Clarkson University |
| 2019 – 2020 | Undergraduate Advisor – Anthropology Department, University of Pittsburgh |
| 2017 – 2018 | TA mentor – Anthropology Department, University of Pittsburgh |
| 2015 – 2019 | Teaching Assistant/Teaching Fellow – Anthropology Department, University of Pittsburgh |
| August 2013 | Assistant Instructor – Cambria County Camp Cadet, Cresson, PA |
| 2011 – 2013 | Graduate Assistant – Applied Forensic Sciences Department, Mercyhurst University |
| 2011 – 2013 | Collections Manager – Applied Forensic Sciences Department, Mercyhurst University |
| 2011 – 2013 | Work Study Supervisor – Applied Forensic Sciences Department, Mercyhurst University |
| June 2012 | Assistant for Death Scene Archaeology Short Course – Applied Forensic Sciences Department, Mercyhurst University |
| June 2012 | Assistant for Laboratory Methods in the ID of Human Skeletal Remains Short Course – Applied Forensic Sciences Department, Mercyhurst University |
| June 2012 | Assistant for Analysis of Bone Trauma and Pseudo-Trauma in Suspected Violent Deaths Short Course – Applied Forensic Sciences Department, Mercyhurst University |
| June 2012 | Assistant for Recovery and Interpretation of the Mass Fatality/Bomb Blast/Fatal Fire Scene Short Course – Applied Forensic Sciences Department, Mercyhurst University |
| 2007 – 2011 | Laboratory Assistant – Processing Laboratory, Mercyhurst Archaeological Institute and Applied Forensic Sciences Department, Mercyhurst College |
| Summer 2010 | Intern – Erie County Medical Examiner’s Office, ECMC, Buffalo, NY |

Teaching Experience

Clarkson University, Potsdam NY

Non-continuous course instruction

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|-------------|--|--------|
| Spring 2024 | Independent Study (Student: Megan Ashley) | PT300 |
| Summer 2023 | Analytical Methods for Evidence Based Practice (Instructor) | PT528 |
| Spring 2023 | Undergraduate Research in Bioscience (Student: Blake Hunter) | BY405 |
| Spring 2022 | Research Practicum (Instructor) | PT618 |
| Fall 2022 | Research methods (Instructor) | PT 608 |

Aug 2022 – Present

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| Summer | Analytical Methods for Evidence Based Practice (Faculty project mentor) | PT528 |
| Spring | Research Practicum (Faculty project mentor) | PT618 |
| Fall | Research methods (Faculty project mentor) | PT 608 |
| Fall | Writing and Presenting Research (Faculty project mentor) | PT648 |

Aug 2020 – Present

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| Spring | Cardiopulmonary/Exercise Science (Anatomy lab coordinator) | PT515 |
| Fall | Foundational Sciences for Physical Therapy (Anatomy lab coordinator) | PT505 |
| Fall | Gross Anatomy (Instructor) | OT501 |

Duquesne University, Pittsburgh PA

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|-------------|--|----------|
| Spring 2020 | Anatomy II Lab (PA/PTs) (Clinical Teaching Professional) | HLTS 471 |
| Fall 2019 | Anatomy I Lab (PA/PTs) (Clinical Teaching Professional) | HLTS 470 |
| Fall 2019 | Anatomy Lab (AT/OTs) (Clinical Teaching Professional) | HLTS 315 |
| Spring 2019 | Anatomy II Lab (PA/PTs) (Clinical Teaching Professional) | HLTS 471 |
| Fall 2018 | Anatomy I Lab (PA/PTs) (Clinical Teaching Professional) | HLTS 470 |
| Fall 2018 | Anatomy Lab (AT/OTs) (Clinical Teaching Professional) | HLTS 315 |

University of Pittsburgh, Pittsburgh PA

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|-------------|--|-----------|
| Spring 2019 | Human Skeletal Analysis and recitations (TA) | ANTH 1602 |
| Fall 2018 | Introduction to Physical Anthropology and recitations (TA) | ANTH 0680 |
| Summer 2018 | Introduction to Physical Anthropology (Instructor) | ANTH 0680 |
| Spring 2018 | Primate Anatomy (TA) | ANTH 1605 |
| Fall 2017 | Introduction to Physical Anthropology and recitations (TA) | ANTH 0680 |
| Spring 2017 | Introduction to Physical Anthropology and recitations (TA) | ANTH 0680 |
| Fall 2016 | Forensic Anthropology and recitations (TA) | ANTH 0630 |
| Spring 2016 | Introduction to Physical Anthropology and recitations (TA) | ANTH 0680 |
| Fall 2015 | Forensic Anthropology and recitations (TA) | ANTH 0630 |

Duke University Talent Identification Program (Site location: Texas A & M University, College Station, TX)

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| July 2013 | Modern Medicine: Disease and Immunology 1 (TA) |
| June 2013 | Modern Medicine: Disease and Immunology 1 (TA) |

Mercyhurst University, Erie PA

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| Spring 2013 | Environmental Evidence and lab (TA) | FRSC300/301 |
| Spring 2013 | Method and Theory in Forensic Anthropology and lab (TA) | ANTH350/351 |
| Winter 2012 | Zooarchaeology and lab (TA) | ANTH560/561/250/251 |
| Fall 2012 | Introduction to Forensic Anthropology (TA) | ANTH242 |
| Fall 2012 | Skeletal Trauma Analysis and lab (TA) | ANTH630/631 |
| Fall 2012 | Fragmentary Human Osteology and lab (TA) | ANTH520/521 |
| Spring 2012 | Death Investigations (TA) | FRSC410 |
| Winter 2011 | Zooarchaeology and lab (TA) | ANTH560/561/250/251 |
| Fall 2011 | Introduction to Forensic Science and lab (TA) | FRSC150/151 |
| Fall 2011 | Indoor Crime Scene Investigation and lab (TA) | FRSC320 |

Publications

- 2023 (*Submitted*) Fricano E, Torres S, Grosso AR. (2023) An unusual taphonomic case report of bones in an urban aqueduct. (Anticipating submission to the Journal of Forensic Anthropology in Fall 2023).
- 2023 (*In progress*) Grosso AR, De Cree T, Volney T, Schmitt S. How many tooth hops does it take to estimate saw blade TPI from tooth hop measurements in bone?
- 2022 Grosso AR, Volney T. Effects of a low-velocity fluvial environment on saw mark evidence in bone. *Journal of Forensic Sciences* (Jan 2023; published online Nov 2022) 00(0):1-11. DOI: 10.1111/1556-4029.15170
- 2022 Grosso AR. Tooth hop variability in human and nonhuman bone: Effect on the estimation of saw blade TPI. *Journal of Forensic Sciences* 67(1): 102-111. DOI: <https://doi.org/10.1111/1556-4029.14897>.
- 2020 Grosso AR. Tissue Variability Effects on Saw Mark Evidence in Bone. PhD Dissertation, Department of Anthropology, University of Pittsburgh.

Presentations and Invited Lectures

- 2023 Grosso AR and Sirsat T. Anatomy and Physiology. Invited lecture and lab, summer 2023 EMT Course, Clarkson University, Potsdam, NY. May 30, 2023.
- 2023 Grosso AR. Care and Analysis of Burned Human Remains. Lecture for a Fellowship Workshop offered at Western University School of Osteopathic Medicine, Pomona, CA. May 18, 2023.
- 2023 Volney T, **Grosso AR**. Effects of a low-velocity fluvial environment on saw mark evidence in bone. Poster presentation at the 66th Meeting of the American Academy of Forensic Sciences, Orlando, FL. February 13-18.

- 2023 Meach R, Fricano E, Shirley C, **Grosso AR**. Cobb Angle Estimation in a Deceased Population. Poster presentation at the 66th Meeting of the American Academy of Forensic Sciences, Orlando, FL. February 13-18.
- 2022 Grosso AR. Cutting Edge Investigations: Using Microscopic Saw Mark Analysis to Evaluate Saw Blade Characteristics from Bone. Science Café Invited lecture. November 15 & 16, 2022.
- 2022 Ramsdell M, Bazzocchi M, **Grosso A**, Banerjee S. Writing Research Questions and Literature Review. Panel for the Robert E. McNair Post-Baccalaureate Achievement Program, Clarkson University. May 23, 2022.
- 2022 Toth SA, **Grosso AR**. Human-Dog Shared Medicine/Basic Vet Care. 2nd Annual Dog Series, City of Alexandria 4-H/Virginia Tech, Virginia Cooperative Extension. May 19, 2022.
- 2022 Grosso AR, Toth SA, Lieurance AJ. Learning through Movement: Tactile Methods for Interpreting Muscle Movement in Osteology. Poster presentation, American Association of Biological Anthropology. March 25, 2022.
- 2022 Toth SA, **Grosso AR**. Nationwide anthropology engagement: Utilizing the 4-H Youth Development program for community outreach. Podium presentation, American Association of Biological Anthropology. March 25, 2022.
- 2021 Grosso AR. How (not) to Get Away with Murder: Forensic Anthropology and the Outdoor Fire Scene. Podium presentation at the David A. Walsh Arts & Sciences Seminar Series, Clarkson University. October 20, 2021.
- 2021 Grosso AR. The Influence of Extrinsic Variation in Gunshot Wounds in a U.S. Civil War Skeletal Sample. Poster presentation at the 2021 Experimental Biology meeting (*Virtual Meeting*). April 27-30.
- 2021 Toth SA, **Grosso AR**. STEM Outreach Initiatives: Integrating Biological Anthropology within the STEM Community. Podium presentation at the 90th Meeting of the American Association of Physical Anthropology (*Virtual Meeting*). April 5-28.
- 2021 Grosso AR. Ankle joint complex. Invited lecture, PT105, Clarkson University, Potsdam, NY. March 29.
- 2021 Grosso AR. Aging Bodies and the Anthropology of Care. Invited lecture, From Womb to Tomb, University of Pittsburgh, Pittsburgh, PA. March 15.
- 2020 Grosso AR. Forensic Anthropology and the Outdoor Crime Scene. Invited lecture, PT305 Seminar, Clarkson University, Potsdam, NY.
- 2020 Grosso AR. Tissue Variability Effects on Saw Mark Evidence in Bone. Dissertation Defense, University of Pittsburgh, Pittsburgh, PA. March 19.
- 2020 Grosso AR. Bone and its Properties. Invited lecture, Primate Biology, University of Pittsburgh, Pittsburgh, PA.
- 2020 Grosso AR, Begley A. How Many Tooth Hops Does It Take to Accurately Measure Saw Blade Teeth-Per-Inch in Bone? Poster presentation at the 89th Meeting of the American Association of Physical Anthropology, Los Angeles, CA. (*Online format*)

- 2020 Grosso AR, Begley A. How Many Tooth Hops Does It Take to Accurately Measure Saw Blade Teeth-Per-Inch in Bone? Panel presentation at the A&S Grad Expo, University of Pittsburgh, Pittsburgh, PA. March 20. *(Cancelled due to COVID)*
- 2020 Toth SA, **Grosso AR**, Siegel MI. Musculoskeletal Modeling: Human ACL Rupture Recognized as Multifactorial Using Dog CCL Rupture Cases. Poster presentation at the 89th Meeting of the American Association of Physical Anthropology, Los Angeles, CA. *(Online format)*
- 2019 Grosso AR. Skeletal Trauma: GSWs, Sharp Force Trauma, and Cases of Postmortem Dismemberment. Invited lecture, Forensic Anthropology, University of Pittsburgh, Pittsburgh, PA.
- 2019 Grosso AR, Toth SA, Neidich DL. Variability of Saw Blades and Saw Marks Measured from Nonhuman Bone: Implications for the Evaluation of Accuracy of Microscopic Saw Mark Analysis. Poster presentation at the 88th Meeting of the American Association of Physical Anthropology, Cleveland, OH. March 27-30.
- 2019 Grosso AR. Variability of Saw Blades and Saw Marks Measured from Nonhuman Bone: Implications for the Evaluation of Accuracy of Microscopic Saw Mark Analysis. Poster presentation at the A&S Grad Expo, University of Pittsburgh, Pittsburgh, PA. March 22.
- 2019 Grosso AR. Bone Biology. Invited lecture, Human Skeletal Analysis, University of Pittsburgh, Pittsburgh, PA.
- 2018 Grosso AR. Human Osteology. Invited lecture, Introduction to Physical Anthropology, University of Pittsburgh, Pittsburgh, PA.
- 2017 Grosso AR. Forensic Archaeology. Invited lecture, Forensic Anthropology, University of Pittsburgh, Pittsburgh, PA.
- 2017 Grosso AR. Human Osteology. Invited lecture, Introduction to Physical Anthropology, University of Pittsburgh, Pittsburgh, PA.
- 2017 Grosso AR. Primate Behavior. Invited lecture, Introduction to Physical Anthropology, University of Pittsburgh, Pittsburgh, PA.
- 2016 Grosso AR. Femoral Fracture Patterns from Gunshot Wounds in a U.S. Civil War Skeletal Sample. Poster presentation at the A&S Grad Expo, University of Pittsburgh, Pittsburgh, PA. March 24.
- 2016 Grosso AR, Neidich DL. Forensic Taphonomy. Invited lecture, Forensic Anthropology, University of Pittsburgh, Pittsburgh, PA.
- 2016 Grosso AR. Skeletal Trauma. Invited lecture, Forensic Anthropology, University of Pittsburgh, Pittsburgh, PA.
- 2015 Grosso AR. Forensic Archaeology. Invited lecture, Forensic Anthropology, University of Pittsburgh, Pittsburgh, PA.
- 2014 Grosso AR. Examination of Saw Blade Teeth-Per-Inch Measurements in Bone. Poster presentation at the 66th Meeting of the American Academy of Forensic Sciences, Seattle, WA. February 17-22.
- 2013 Grosso AR. Evaluation of Saw Blade Teeth-Per-Inch Measurements in Bone: Considerations for Validation Studies. Thesis Defense, Mercyhurst University, Erie, PA.
- 2012 Grosso AR, Fredette SM. A Forensic Case of Burned and Commingled Remains: Interactive Analysis with Arc GIS. Death Scene Archaeology Short Course, Mercyhurst University, Erie, PA.

- 2011 The Role of Forensic Anthropology in Outdoor Crime Scene Recovery. Missing Person Awareness Event, Warren, PA.
- 2011 Grosso AR, Fredette SM. A Forensic Case of Burned and Commingled Remains. Forest, Lakes, and Grasslands Regional Forensic Meeting, Roscommon, MI.

Current/Active Research Projects

Grosso AR. Effects of tissue variability on skeletal trauma evidence in bone.

Grosso AR, Fricano E, Shattuck H. Using geometric morphometrics to assess asymmetrical bone remodeling in the lower extremities from uneven weight-bearing and muscle use in individuals diagnosed with scoliosis.

Toth S, **Grosso AR**. CCL Ruptures in Golden Retrievers as translational models for human ACL rupture: (1) changes in behavior post-rupture; (2) onset of osteoarthritis post-rupture; (3) can diet be used to predict CCLR incidence?

(*Grant submitted 2023*) NSF FW-HTF-P: Firefighter Exoskeleton for Navigation in eXtreme Environments (FENIXE).

- LSHS PI/SIs: Brooks S, Towler C, Oppenlander J
- LSHS collaborators: **Grosso A** and Wildermouth D

(*Grant accepted 2023, start date TBA*) BRAIN-STEM: Building Rural Aspirations in Neuroscience with STEM

- PIs: Lennart Johns, Kathleen Kavanagh, Mary Margaret Small, Thomas Williams
- LSHS Collaborators: Sirsat T, **Grosso A**, Denault D, Towler C

(*Grant accepted 2023, start date 5/1/23*) NIH BiOengineering Research Education to AcceLerate Innovation in STEM (BOREALIS).

- PI: Laurel Kuxhaus
- LSHS preceptors: Kwadwo-Appiah Kubi, **Grosso A**, Ziegler S

(*Planning stage*) Grosso AR, Marko M. Variation in human calcaneal morphology and implications for altered biomechanics.

- Co-project: Marko M, **Grosso AR**. How variations in calcaneal morphology relate to Achilles rupture and altered biomechanics.

(*Planning IRB*) McGuire D, **Grosso AR**. Evaluating the success of the Girls on the Run (GOTR) mission in a rural community.

(*Planning stage*) Grosso AR, Banerjee N, Banerjee S. Virtual, automated reconstruction of fragmentary bone from fire scenes.

(*Planning stage*) Grosso AR, Banerjee N, Banerjee S. Advancing drones for improved outdoor crime scene recovery: use of artificial intelligence, machine learning, and augmented reality technologies in forensic anthropology.

Academic Awards and Scholarships

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| 2017 | Elizabeth Baranger Excellence in Teaching Award (\$750), University of Pittsburgh |
| 2016 | Outstanding Presenter (\$100), Grad Expo, University of Pittsburgh |
| 2015 | GSO Summer Research Grant (\$500), University of Pittsburgh |
| 2014 | Arts and Sciences Graduate Fellowship, University of Pittsburgh |
| 2013 | Sister Eustace Taylor Graduate Student Award in Anthropology, Mercyhurst University |
| 2011 | Zurn School of Natural Sciences and Mathematics Certificate of Excellence, Mercyhurst College |
| 2011 | Certificate of Excellence for the Applied Forensic Sciences Department, Mercyhurst College |
| 2007 – 2011 | Dean's List, Mercyhurst College |
| 2007 – 2011 | Valedictorian Scholarship, Mercyhurst College |

2007 Dresser-Rand Employee Scholarship

Service

Professional Service

2022 – Ethics Committee member – American Association of Biological Anthropology

2022 – Reviewer – *Journal of Legal Medicine*

2020 – Reviewer – *International Journal of Paleopathology*

Community service

Spring 2023 Girls on the Run (Colton, NY). Head coach – GOTR is a physical activity-based positive youth development program, using running as a platform to teach life skills and promote healthy behaviors.

Departmental and University Service

Summer 2023 General faculty hiring committee, Department of Physician Assistant Studies, Clarkson University

Spring 2022 Faculty hiring committee for Assistant, Associate, or Full Professor of Occupational Therapy – Department of Occupational Therapy, Clarkson University

2022 – Research committee chair – Department of Physical Therapy, Clarkson University

2022 – 2025 Faculty Senate – Clarkson, University (3-year term)

2021 – 2024 Institutional Review Board (IRB) – Clarkson University (3-year term)

2020 – Pre-PT Committee – Department of Physical Therapy, Clarkson University

2020 – Pre-PT Student Advisor – Department of Physical Therapy, Clarkson University

2020 – PT Club Advisor – Department of Physical Therapy, Clarkson University

2020 – Curriculum Committee – Department of Physical Therapy, Clarkson University

2020 – GRASP Committee – Department of Physical Therapy, Clarkson University

2020 – Research committee – Department of Physical Therapy, Clarkson University

2020 – 2023 Admissions Committee – Department of Physical Therapy, Clarkson University

2019 – 2020 Undergraduate Advisor – Anthropology Department, University of Pittsburgh

2019 – 2020 Undergraduate Studies Committee – Anthropology Department, University of Pittsburgh

2018 – 2019 Faculty Search Committee for Associate Professor – Anthropology Department, University of Pittsburgh

2018 – 2019 Website Committee – Anthropology Department, University of Pittsburgh

2018 – 2019 Colloquium Committee – Anthropology Department, University of Pittsburgh

2017 – 2018 Grad Studies Committee – Anthropology Department, University of Pittsburgh

2016 – 2017 Colloquium Committee – Anthropology Department, University of Pittsburgh

2016 – 2017 ASGSO Summer Research Grant Committee – University of Pittsburgh

2016 – 2017 ASGSO Grad Expo Committee – University of Pittsburgh

Student Mentorship and Outreach

2023 – 2024 Co-mentorship amongst Moshe Marko, Dale Fournier, and Alicia Grosso. DPT Research project (PT528, 608, 618, 648) – Department of Physical Therapy, Clarkson University. **Stephanie Dunlap**. Effects of Super Slow Tempo versus Regular Tempo on Localized Muscle Adaptation in Resistance Training.

PT 300 Independent Study: **Megan Ashley**

2023 – 2024 DPT Research project (PT528, 608, 618, 648) – Department of Physical Therapy, Clarkson University. **Brandon Bahr, Mina Gerges, Brendan Gardner, Phiriyaphon Sinthawachiwa**. Paw-sitive Insights: The Link between Canine CCL Ruptures and Human Osteoarthritis.

2023 – 2024 DPT Research project (PT528, 608, 618, 648) – Department of Physical Therapy, Clarkson University. **Brooke Peters, Annmarie Altilio, Caitlyn Ferreira**. The Effects of Sex Hormones on CCL Rupture in Golden Retrievers.

Fall 2023 DPT Research Project (PT648; continuation of project listed below) – Department of Physical Therapy, Clarkson University. **Nnaebuka Ononye**. Do Dogs with a Cranial Cruciate Ligament Injury Demonstrate Changes in Behavior Compared to Sound Dogs?

- Oct. 23, 2023 BOCES High school students touring Clarkson Hall facilities to learn more about the Health Science graduate programs and undergraduate prep (Anatomy lab tour and Introduction to PT)
- Spring 2023 **Blake Hunter** – BY405 independent research course. Greatly aided in data collection for project: Geometric morphometrics of scoliosis: asymmetrical development of the pelvis due to differential weight bearing and muscle mechanics.
- April 18, 2023 BOCES High school students touring Clarkson Hall facilities to learn more about the Health Science graduate programs and undergraduate prep (Anatomy lab tour and Introduction to PT)
- Feb. 8, 2023 50-60 High school students touring Clarkson Hall facilities to learn more about the Health Science graduate programs and undergraduate prep (Anatomy lab tour, Ultrasound, Introduction to PT)
- 2022 – 2023 DPT Research project (PT608, 618, 648) – Department of Physical Therapy, Clarkson University
Ridwana Huda, Rick Valdes, Alexander Buckley, Hannah Lehman, Jordan Miller. Geometric morphometrics of scoliosis: asymmetrical development of the pelvis due to differential weight bearing and muscle mechanics.
- Summer 2022 **Tyra Volney** – Robert E. McNair Post-Baccalaureate Achievement Program (Clarkson University) – Forensic Science, John Jay College of Criminal Justice (NYC).
Project for publication: How many tooth hops does it take to estimate saw blade TPI from tooth hop measurements in bone? (Interobserver error and influences of user experience level)
Project for publication: Effects of a low-velocity fluvial environment on saw mark evidence in bone.
Project for RAPS: The effect of sediment abrasion and water velocity on saw-mark characteristics of bones in dismemberment cases.
- Summer 2022 **Skylar Schmitt** – CUPO scholar through CSTEP – Biology (Anthropology minor), Clarkson University.
Project for publication: How many tooth hops does it take to estimate saw blade TPI from tooth hop measurements in bone? (Interobserver error and influences of user experience level)
Project for RAPS: Virtual (manual) reconstruction of fragmented pig humeri using 3D scanning and MeshLab.
- Summer 2022 **Camryn Shirley** – Robert E. McNair Post-Baccalaureate Achievement Program (Clarkson University) – Community Health; Chemistry, University of Illinois at Urbana-Champaign.
Project for RAPS: Using geometric morphometrics to measure scoliosis and the impact on the human pelvis.
- April 27, 2022 BOCES High school students touring Clarkson Hall facilities to learn more about the Health Science graduate programs and undergraduate prep (Anatomy lab tour and Introduction to PT)
- 2021 – 2022 DPT Research projects (PT608, 618, 648) – Department of Physical Therapy, Clarkson University
Jose Soto Lopez, Eman Alanazi, Susan Bolanos, Nnaebuka Ononye. CCL Ruptures in Golden Retrievers, focus on (1) behavioral changes and onset of OA post rupture; (2) dietary differences in CCL rupture vs. control group.
- Summer 2021 Student research collaboration (**Theresa DeCree**, MS Candidate) – Applied Forensic Sciences Department, Mercyhurst University
Project for publication: Tissue variability effects on saw mark evidence in bone
Project for publication: How many tooth hops does it take to estimate saw blade teeth-per-inch in bone? (Interobserver error and influences of user experience level)
- Summer 2021 Student research collaboration (**Sharon Toth**, PhD Candidate) – Anthropology Department, University of Pittsburgh
Project for publication: CCL ruptures in dogs: Cross-sectional Study
Project for publication: CCL ruptures in dogs: Longitudinal Study
- 2020 – 2021 Mentoring graduate student (**Sharon Toth**) for Project YES, a career enhancing project
- Fall 2019 Mentoring undergraduate student (**Anne Begley**) for internship credit on saw mark analysis – Anthropology Department, University of Pittsburgh
- Oct 2019 International Archaeology Day – Classics Department, University of Pittsburgh
- June 2019 Anatomy Lab Assistant for Greater Latrobe Area High School lab tour for students interested in health sciences – Seton Hill University and LECOM (6/13/19)
- May 2019 Anatomy Lab Assistant for Avonworth High School lab tour for students interested in STEM fields– Duquesne University (5/17/19)

May 2019 Falk School Carnival, Anthropology booth – Falk Laboratory School, Pittsburgh, PA (5/5/19)
Oct 2018 International Archaeology Day – Classics Department, University of Pittsburgh
Spring 2012 Introduction to Forensic Anthropology (for seniors pursuing continued education) – Mercyhurst University
July 2012 Assistant Instructor for Somerset County Camp Cadet – Boswell, PA
July 2011 Assistant Instructor for Somerset County Camp Cadet – Boswell, PA
Spring 2011 Presenting on how forensic anthropology can aid in investigations – Missing Person Awareness Event, Warren, PA

Professional Organization and Honor Society Membership

Since 2021 American Council of Academic Physical Therapy Education (ACAPT), Member
Since 2019 American Association of Anatomists (AAA), Member
Since 2015 American Association of Biological Anthropologists (AABA), Member
2013-2016 American Academy of Forensic Sciences, Physical Anthropology (AAFS), Student Affiliate
Since 2013 *Lambda Alpha* Anthropology Honors Society
Since 2008 *Phi Eta Sigma* Honors Society

Forensic casework experience available upon request

References available upon request