

# Nicole Crowe

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## Education

- 2020 **M.S.** in Pathologists' Assistant Studies, Department of Applied Health Sciences, Eugene Applebaum College of Pharmacy and Health Sciences Wayne State University Detroit, MI
- 2017 **M.S.** in Anatomy, Division of Anatomy, College of Medicine, The Ohio State University, Columbus, Ohio
- Thesis title: Histomorphometric Analysis of Elderly Ribs at Various Locations*
- 2015 **B.S.** in Anthropology, Department of Anthropology, College of Liberal Arts, Texas State University, San Marcos, TX
- Thesis title: A Histological Study: Examining Sex Differences in Human Rib Microstructure*

## Relevant Courses

Human Histology, Histochemistry, Clinical Histopathology Techniques, Skeletal Biology, Human Gross Anatomy, Human Embryology, General Pathology, Surgical Pathology, Autopsy Pathology

## Certifications

- 2021 **Pathologists' Assistant (ASCP)cm**; expires April 2024.

## Experience

- Jun 2022 - present **Anatomy Instructor/Lab Manager.** Department of Physiology and Anatomy. The University of North Texas Health Science Center, Fort Worth, TX.
- Jul 2021 - Jun 2022 **Certified Pathologists' Assistant.** Quest Diagnostics, Texas Health Harris Methodist Hospital, Fort Worth TX.
- Grossed low-to-high complexity surgical specimens
  - Obtained specimens for ancillary studies (tumor triage, lymphoma protocol, cytogenetic analysis, electron microscopy, immunofluorescence preparation)
  - Assisted with frozen sections
  - Helped prepare laboratory for College of American Pathologists (CAP) inspections

Mar 2021 - Apr 2021

**PRN Pathologists' Assistant.** Clinical Pathology Associates, Christus Santa Rosa Hospital, San Marcos, TX.

- Grossed low-to-high complexity surgical specimens
- Assisted with frozen sections

Aug 2019 - Sep 2020

**Pathologists' Assistant Student.** Wayne State University, Detroit, MI.

Clinical rotations, included:

- Wayne County Medical Examiner's Office, Detroit, MI.
  - Forensic Autopsy
  - Forensic Photography
- Beaumont Health, Royal Oak, MI.
  - Surgical Pathology
  - Histology
  - Lab Management
- Children's Hospital of Michigan, Detroit, MI.
  - Surgical Pathology
  - Clinical Autopsy
  - Clinical Photography
- Huron Valley-Sinai Hospital, Commerce Township, MI.
  - Surgical Pathology
- Sinai-Grace Hospital, Detroit, MI.
  - Surgical Pathology
- Memorial Medical Center, Springfield, IL.
  - Surgical Pathology
- University of Michigan, Ann Arbor, MI.
  - Surgical Pathology
- Ascension Providence Hospital, Rochester, MI.
  - Surgical Pathology

Nov 2017 - May 2018

**Lab Assistant.** Beaumont Health, Anatomic Pathology, Surgical Pathology, Royal Oak, MI.

- Retrieved surgical specimens from various locations within the hospital
- Accessioned surgical specimens into computer software (Softlab and Softpath)
- Communicated with internal and external healthcare personnel concerning reports, clarification of test requests, and problems related to specimens
- Stored and properly disposed of surgical specimens

Aug 2015 - Aug 2017

**Graduate Research Assistant.** Skeletal Biology Research Laboratory Injury Biomechanics Research Center, The Ohio State University, Columbus, OH.

- Prepared hard tissue microscope slides for imaging and data collection for ongoing research projects
- Collected human donor tissue for biomechanical testing
- Defleshed human skeletal remains for anthropological aging research and open forensic cases

- Assisted with biological profiles on human skeletal humans for open forensic cases
- Assisted in set-up and execution of rib impact testing for thorax research
- Classified modes of rib fracture to better understand common injury patterns in simulated frontal impacts

Feb 2017 - Jun 2017

**Organ Preservationist.**

Lifeline of Ohio, Columbus, OH.

- Prepared organ recovery process in operating room
- Monitored kidney(s) on preservation equipment until transplanted
- Maintained preservation of cold stored organs until transplants
- Retrieved organs from regional hospital fly-outs

Aug 2013 - Jul 2015

**Undergraduate Research Assistant.**

Grady Early Forensic Anthropology Research Laboratory (GEFARL)  
Forensic Anthropology Center, Texas State University, San Marcos, TX.

- Prepared hard tissue microscope slides for imaging and data collection for ongoing research projects

May 2013 - Jul 2015

**Undergraduate Volunteer for Operation Identification Project.**

Forensic Anthropology Center, Texas State University, San Marcos, TX.

The goal of the project was to identify, and repatriate unidentified border crosser's remains found along the Texas-Mexico border

- Defleshed human skeletal remains for biological profile analyses
- Composed photo inventories of personal effects for each individual
- Helped construct biological profiles by estimating age-at-death via histological aging methods using ribs and femora

Jan 2013 - Jul 2015

**Undergraduate Volunteer.** Forensic Anthropology Research Facility (FARF), Osteological Research and Processing Lab (ORPL), The Forensic Anthropology Center, Texas State University, San Marcos, TX.

- Assisted with transporting human body donors from various medical examiner facilities, funeral homes, and hospitals in Texas
- Samples blood, hair, and nails from donors
- Placed donors at outdoor decomposition facility for longitudinal decomposition studies
- Documented the progression of decomposition for each donor using digital photography and detailed notes

## Teaching Experience

- 2021 - 2022      **Pathology Instructor.** Texas Health Harris Methodist Hospital, Fort Worth, TX.
- Taught rotating medical students from UNTHSC College of Osteopathic Medicine.
  - Subjects covered, included: gross anatomy, gross examination, dictation, dissection, surgical pathology, and cancer staging
- 2019      **Teaching Assistant.** Wayne State University, Detroit, MI.
- Taught gross anatomy to physical therapy
  - Taught gross anatomy and grossing methods to first year pathologists' assistant students
- 2014      **Instructor.** Annual Mock Burial Excavation, Texas State Forensic Anthropological Society, Department of Anthropology, College of Liberal Arts, Texas State University, San Marcos, TX.
- Subjects covered included archaeological excavations techniques and clandestine burial exhumation
- 2014      **Instructor.** Two Day Human Remains Recovery Course, Forensic Anthropology Center, Texas State University, San Marcos, TX.
- Subjects covered, included: human osteology, human vs. nonhuman bone, taphonomy, clandestine grave locating methods, mapping/sketching, and archaeological excavation techniques

## Research Grants

- Mar 2015      **Committee on Diversity Undergraduate Research Symposium Travel Grant (COD URS Travel Grant)**, awarded by the American Association of Physical Anthropologists (AAPA). **\$400**
- Nov 2014      **Student Undergraduate Research Fund (SURF)**, awarded by The Honors College, Texas State University, San Marcos, TX. **\$2,000**
- May 2014      **FACTS Histology Travel Grant**, awarded by the Forensic Anthropology Center, Texas State University, San Marcos, TX. **\$500**

## Conference Presentations

- Sep 2016 Dominguez V, Kang Y, Murach M, **Crowe N**, Agnew A. Bone area versus cortical area: considering intracortical porosity when predicting rib structural properties. International Research Council on Biomechanics of Injury (IRCOBI), podium presentation
- Feb 2015 Mavroudas S, Spradley K, Duecker H, Fancher J, **Crowe N**. The identification of undocumented border crossers along the United States-Mexico border: a case for bone histology. American Academy for Forensic Science (AAFA), poster presentation
- Mar 2015 **Crowe N**, Mavroudas S, Spradley K. A histological study: examining sex differences in human rib microstructure. American Association of Physical Anthropologists (AAPA), undergraduate research symposium, poster presentation

## Presentation Acknowledgements

- Feb 2018 Dominguez V, Harden A, Agnew A. Histological variables at multiple locations and the effect on age estimation. American Academy for Forensic Sciences (AAFS), poster presentation
- Created hard tissue microscope slides used for data collection
- Feb 2016 Meckel L, Mavroudas S, Dominguez V. Bone histology sampling sites for the identification of undocumented border crossers along the U.S.-Mexico border. American Academy for Forensic Sciences (AAFS), poster presentation
- Created hard tissue microscope slides used for data collection
- Mar 2015 French K, Mavroudas S, Dominguez V. Prevalence of drifting osteons across mammal species. American Association of Physical Anthropologists (AAPA), poster presentation
- Collected data
    - Quantified drifting osteons

## Field Experience

- Aug 2015 - Aug 2017 **Case Team Volunteer.** Forensic Anthropology Case Team, The Ohio State University, Columbus, OH.
- Search for and recovered human remains in central Ohio in conjunction with local law enforcement
  - Assisted with laboratory analyses and biological profiles on human skeletal remains for open forensic cases

Jan 2013 - Jan 2015

**Case Team Volunteer.** Forensic Anthropology Center, Texas State University, San Marcos, TX.

- Searched for human remains in central Texas in conjunction with local law enforcement
- Conducted human vs. nonhuman and age-at-death estimation histological analyses on skeletal remains for open forensic cases

Jul 2014 - Oct 2014

**Archaeological Field Technician.** Spring Lake Data Recovery Project (41HY160) Center for Archaeological Studies, Texas State University, San Marcos, TX.

- Conducted archaeological data recovery (excavation)
- Documented artifact recovery in situ using digital photography and sketches
- Screened soil for further artifact recovery
- Organized and cataloged hundreds of artifacts, such as: bone, lithics, and ceramic fragments

Jan 2014

**Archaeological Survey Member.** Turkey Roost Rock House (40FN293), Pogue Creek State Natural Area, Fentress County, TN.

- Resurveyed back dirt in search of cultural artifacts due to this location's status as an indeterminate prehistoric site

Jan 2014

**Archaeological Survey Member.** Phase I archaeological survey of proposed Pogue Creek overlook trail (40FN418), Pogue Creek State Natural Area, Fentress County, TN.

- Dug and screened soil for six shovel test pits in search of cultural deposits

### Community Outreach

June 2022

**Volunteer.** Joint Admission Medical Program (JAMP), Center for Anatomical Sciences, The University of North Texas Health Science Center, Fort Worth, TX.

- Taught female reproductive anatomy using cadaveric prosections to college students

June 2022

**Volunteer.** Texas Academy for Biomedical Sciences (TABS), Center for Anatomical Sciences, University of North Texas Health Science Center, Fort Worth, TX.

- Taught high school students how to perform surgical gowning and gloving

- 2018-2019      **Volunteer.** Mortuary Science Building Open House, Wayne State University, Detroit, MI.
- Promoted Wayne State's Pathologists' Assistant Program
  - Taught attendees about human osteology and pathology
  - Demonstrated frozen sections
- 2018      **Volunteer.** STEM Day, Wayne State University, Detroit, MI.
- Wrote the proposal for this event. Grade school students interested in STEM came to this event to learn about the pathologists' assistant profession. Students participated in various interactive stations to learn about anatomy, grossing, histology, and forensics
- 2018      **Volunteer.** Community Apple Days Program, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI.
- Promoted Wayne State's Pathologists' Assistant Program
- 2016      **Volunteer.** High School Human Anatomy Outreach Program, The Division of Anatomy, College of Medicine, The Ohio State University, Columbus, OH.
- Taught local high school students human anatomy using cadaveric prosections
- 2016      **Volunteer.** Anatomy Memorial Service, The Division of Anatomy, College of Medicine, The Ohio State University, Columbus, OH.
- Greeted donor's families entering the ceremony
- Supplemental Training
- Apr 2017      **Cold Pulsatile Perfusion Wet-Lab Workshop.** Human Donation Science Program, The University of Toledo, Toledo, OH.
- Two-day hands-on workshop
  - Subjects covered, included: surgical human organ recovery, science of pulsatile perfusion, kidney preservation, and proper techniques for placing kidney(s) on pulsatile pump
- Dec 2013 - Jan 2014      **Archaeological Field School.** Cumberland Plateau (40PT209), Fentress County, TN.
- Four-week hands-on course
  - The course covered archaeological excavation techniques

Jul 2014

**Osteology Workshop.** Forensic Anthropology Center, Texas State University, San Marcos, TX.

- Five-day hands-on workshop
- Subjects covered, included: overview of human skeleton, basic bone biology, anatomical terminology, skull anatomy, postcranial anatomy, and common anatomical variations

Oct 2012

**Two Day Human Remains Recovery Course.** Forensic Anthropology Center, Texas State University, San Marcos, TX.

- Two-day hand-on course
- Subjects covered, included: human osteology, human vs. nonhuman bone, taphonomy, clandestine grave locating methods, grave mapping/sketching, and archaeological excavation techniques

Affiliations

American Association of Pathologists' Assistants (AAPA)  
American Association of Clinical Anatomists (AACCA)