

## Lexi O'Donnell

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## Education

- 2019** University of New Mexico, Albuquerque, NM  
Ph.D. Anthropology – Archaeology  
Dissertation: Health, Stress, and Migration in the pre-contact Southwest United States  
Chair: Dr. Patricia Crown; committee: Dr. Jane Buikstra, Dr. Heather Edgar, Dr. Osbjorn Pearson
- 2016** University of New Mexico, Albuquerque, NM  
M.S. Anthropology – Evolutionary Anthropology  
Advisor: Dr. Heather Edgar; committee: Dr. Keith Hunley, Dr. Osbjorn Pearson
- 2008** University of Arizona, Tucson, AZ  
B.A. Anthropology

## Employment

- 2019-present** Visiting Assistant Professor, Department of Sociology and Anthropology, University of Mississippi
- 2019** Adjunct Assistant Professor, Department of Anthropology, University of New Mexico
- 2018-present** Office of Archaeological Studies  
*Dental morphological and metric data collection, review and update of dental pathology data*
- 2018-2019** Maxwell Museum, Laboratory of Human Osteology  
*Skeletal analysis of Pottery Mound human remains for NAGPRA grant*
- 2017-2019** University of Saint Francis, Adjunct Faculty  
*Osteology instructor for Gross Anatomy course, Physician Assistant Studies*
- Summer 2018** University of New Mexico  
*Faculty Assistant, Chaco Culture National Historic Park; archaeological excavation, site survey, site condition assessments*
- Fall 2017** Maxwell Museum, Laboratory of Human Osteology  
*Skeletal analysis of burials from Cascada Seca site, New Mexico, reports, repatriation (NAGPRA)*
- Spring 2016** Office of Contract Archaeology, Archaeologist  
*Ceramic analysis and reconstruction, Lake Roberts (Mimbres)*
- 2015-2019** Maxwell Museum, Curatorial Assistant  
*Bureau of Land Management, NAGPRA coordination, skeletal analysis, repatriation*
- Summer 2014** Maxwell Museum, Student Employee  
*Data entry (Oracle)*
- 2008-2009** Statistical Research, Inc.  
*Data entry (Access) for over 1,000 skeletons excavated from the Joint Courts Complex, Tucson, AZ*

## **Appointments- Teaching**

University of Mississippi, Fall 2019

### **Courses taught:**

ANTH 101, Introduction to Anthropology  
ANTH 304, Biological Anthropology  
ANTH 607, Graduate Seminar in Biocultural Anthropology

University of St. Francis, Albuquerque, Spring 2017-Spring 2019

### **Courses taught:**

PAMS 601, Anatomy (Osteology portion of course), Adjunct Faculty

University of New Mexico, Albuquerque, Fall 2013-Summer 2019

### **Courses taught/assisted:**

ANTH 451, Bioarchaeology, Graduate Assistant  
ANTH 101, Introduction to Anthropology, Graduate Assistant  
ANTH 151L, Human Evolution Laboratory, Teaching Assistant  
ANTH 350, Human Osteology, Graduate Assistant  
ANTH 351L, Human Osteology Laboratory, Teaching Assistant  
ANTH 150, Evolution and Human Emergence, Graduate Assistant

## **Appointments- Research**

**2017-2018** Center for Regional Studies, Research Fellow  
*Data collection and analysis (dissertation)*

## **Honors and Awards**

**2017** Center for Regional Studies, University of New Mexico, Research Fellowship. \$15,000  
**2016** Anthropology Department, University of New Mexico, Binford Fellowship. \$14,000

## **Research Grants and Travel Funding**

**2019** Departmental Travel Funding. \$500  
**2018** Harvey C. and Sarah M. Moore competitive travel grant. \$500  
**2018** Harvey C. and Sarah M. Moore Endowed Fellowship in Anthropology. \$1,000  
**2018** Friends of Coronado Historic Site Scholarship. Funding for dissertation research. \$1,500  
**2016** New Mexico Research Grant, High Priority, University of New Mexico: Funding for dissertation research. \$5,000  
**2014** Research, Project and Travel Grant (RPT), University of New Mexico: Funding for travel to conference. \$840

## **Skills and Proficiencies**

Access database: data entry and query creation  
Data analysis: STATA, R, SAS, MS Excel  
Human skeletal analysis (adult and juvenile)  
Dental analysis with focus on morphology and metrics  
Paleopathology  
Ceramic analysis: non-destructive, microscopic temper identification

## **Student Mentorship**

### **Master's Advisement**

Raychel Durdin, 2021, the University of Mississippi, in progress

## **Bachelor's Honors Advisement**

Elizabeth Houston, 2022, the University of Mississippi, in progress

Joseph Upton, 2022, the University of Mississippi, in progress

## **Other Mentoring**

- 2017-present** Emily Moes (graduate student, University of New Mexico); skeletal analysis, paleopathological analysis
- Summer 2018** Kelly Navickas (Wellesley College); cultural resource management/public archaeology, skeletal analysis, NAGPRA
- Fall 2014-2015** Organized and supervised numerous undergraduate volunteers for a project involving cleaning of human skeletal remains from archaeological site in Belize.

## **Synergistic Activities**

- 2013-2019** Maxwell Museum, Laboratory of Human Osteology, Research Assistant  
*Coordination of volunteers, analysis and inventory of human skeletal remains, data analysis*
- 2011-2019** Maxwell Museum, Laboratory of Human Osteology, Volunteer  
*Coordination of volunteers; analysis and inventory of human skeletal remains; data analysis; labeling, inventory and analysis of human skeletal remains; organization of the documented skeletal collection; scanning electron microscopy of teeth from Peru; analysis of teeth to be used for isotope analysis; minimum number of individual counts for large collection of juvenile and adult skeletal remains, some of which were commingled*
- Summer 2016** Volunteer work in Bogotá, Colombia  
*Skeletal analysis and documentation of human skeletal remains from Cementerio Central.*
- 2006-2010** Arizona State Museum, Bioarchaeology Lab, Volunteer  
*Analysis and inventory of skeletal remains, including cremains; separation of human bones from faunal bones, data entry (Access), excavation of juvenile skeletal remains at Honeybee site*
- 2005-2008** Old Pueblo Archaeology, Volunteer and Contractor  
*Ceramic analysis and reconstruction, cleaning and labeling artifacts, inventory and cataloging of artifacts, mailing list, field training in Yuma Wash*

## **Service**

- 2019** Reviewer, Bioarchaeology International
- 2018** Reviewer, Journal of Forensic Sciences
- 2017** Reviewer, Kiva
- 2018** Educational outreach, Office of Archaeological Studies, development of educational materials

## **Invited Lectures**

- Fall 2018** *Trends in Health, Stress and Migration in the U.S. Southwest.* Presented at the University of Idaho, Moscow, ID.
- Fall 2018** *Pathology*, presented in Forensic Anthropology (ANTH 251). Instructor: Katelyn Rusk.  
*Migration and Its Impacts on Health in the American Southwest* presented in Paleopathology (ANTH 454/554). Instructor: Dr. Heather Edgar.
- Fall 2017** *Pathology*, presented in Forensic Anthropology (ANTH 251). Instructor: Katelyn Rusk.  
*Bioarchaeology*, presented in Forensic Anthropology (ANTH 251). Instructor: Katelyn Rusk.  
*Bioarchaeology*, presented in World Archaeology (ANTH 220). Instructor: Dr. Wirt Wills  
*Social Determinants of Health and Wealth in a Freed Slave Cemetery* presented in World Archaeology (ANTH 220). Instructor: Dr. Wirt Wills.
- Spring 2016** *Osteology*, week-long lecture/lab course presented to Advanced Archaeology Lab class. Instructor: Dr. Patricia Crown.
- Fall 2016** *Pathology*, presented in Forensic Anthropology (ANTH 251). Instructor: Katelyn Rusk.

*Bioarchaeology*, presented in Forensic Anthropology (ANTH 251). Instructor: Katelyn Rusk.

**Fall 2015** *Pathology*, presented in Forensic Anthropology (ANTH 251). Instructor: Katelyn Rusk.  
*Bioarchaeology*, presented in Forensic Anthropology (ANTH 251). Instructor: Katelyn Rusk.

## Research Interests

My overarching research theme is to better understand the impacts of inequity and marginalization on group health. I seek to understand how they impact the lived experience, how they are embodied, and how they are visible in the dead.

Keyword interests: Dental morphology, paleopathology, human osteology/skeletal biology, the Osteological Paradox, stress and frailty, statistical analysis: Kaplan-Meier survival analysis, odds ratios, linear/logistic regression

## Publications

### Peer-reviewed publications

**O'Donnell L.** 2019. Indicators of stress and their association with frailty in the precontact Southwestern United States. *American Journal of Physical Anthropology*:1-14.

**O'Donnell A,** Ragsdale CS. 2017. Biological distance analysis and the fate of the Gallina in the American Southwest. *Kiva* 83(4):515-531.

**O'Donnell A,** Daneshvari S, Edgar HJH. 2017. Can cephalometrics discriminate between the sexes in a diverse juvenile sample? *Journal of Forensic Sciences*. 62(3):735-740.

Edgar HJH, Willermet C, Ragsdale CS, **O'Donnell A,** Daneshvari S. 2015. Frequencies of rare incisor variations reflect factors influencing precontact population relationships in Mexico and the American Southwest. *International Journal of Osteoarchaeology*. 26 (6):987-1000.

### Works in progress

**O'Donnell L,** Edgar HJH. 2019. Social determinants of health and wealth at Freedman's Cemetery, Dallas, Texas. **Submitted to Current Anthropology.**

**O'Donnell L,** Meyer JV, Ragsdale CS. 2019. Trade relationships and gene flow at Pottery Mound, New Mexico. 2019. **Article in prep.**

**O'Donnell L,** Moes E. 2019. Dental fluctuating asymmetry as a predictor of individual frailty in the Southwest United States. **Article in prep.**

Kirk S, Boone JL, **O'Donnell L,** Sternberg E. 2019. Castles as Houses of the Military Elite: Battle, Social Memory, and Structural Changes in a Selection of Castles Across Europe. **Article in prep.**

**O'Donnell L.** 2019. Frailty and Stress in People Who Move: A View from the U.S. Southwest. **Article in prep.**

Schwartz M, Yetish G, Seabright E, **O'Donnell L,** Pisor A, Trumble B, Gurven M, Kaplan H. 2017. Title to be determined. **Article in prep.**

**O'Donnell L,** Marquardt W, Price K, Williams K, Edgar HJH. Title to be determined. **Article in prep.**

### Refereed abstracts

**O'Donnell L, Hill EC, Anderson AS, Edgar HJH. 2020.** Examining the etiology of cribra orbitalia and porotic hyperostosis using computed tomography (CT) scans of a contemporary sample from the New Mexico Office of the Medical Investigator. Submitted for Society for American Archaeology, Austin, TX.

**O'Donnell L, Moes E, Rusk KM.** Does fluctuating asymmetry predict lesion status in systemic stress indicators? Kind of... 2019. Podium presentation, American Association of Physical Anthropologists, Cleveland, Ohio.

Price K, **O'Donnell L, Marquardt W.** Four down, 6,000 to go: Processing and Researching the St. Joseph's Cemetery Site legacy collection. 2019. Podium presentation, Society for American Archaeology, Albuquerque, NM.

**O'Donnell L, Moes E, Hill EC, Kennett DJ, Prufer KM.** Indicators of skeletal stress in a small skeletal sample spanning the Holocene in the Maya Mountains of Belize. 2019. Poster presented to the Society for American Archaeology, Albuquerque, NM.

Marquardt, W, **O'Donnell A, Price K, Williams K, Edgar HJH.** 2018. Mortuary Analysis of St. Joseph Sanatorium, Albuquerque, New Mexico: A Multidisciplinary Approach. Poster presented during the Bioarchaeology in the Americas session, Society for American Archaeology, Washington, DC.

**O'Donnell A, Edgar HJH.** 2015. Social determinants of health and wealth at Freedman's Cemetery, Dallas, Texas. Poster presented to the Western Bioarchaeology Group (WeBIG), Arizona State University, Phoenix, AZ.

**O'Donnell A, Daneshvari S.** 2015. Can cephalometrics discriminate between the sexes in a diverse juvenile sample? Podium presentation, American Association of Physical Anthropologists, St. Louis, Missouri.

**O'Donnell A, Ragsdale CS, Willermet CM, Edgar HJH.** 2014. Rare incisor variants are observed at relatively high frequencies in Mexico and the American Southwest. American Journal of Physical Anthropology Supplemental 48. Poster presented at invited symposium, American Association of Physical Anthropologists, Calgary, Alberta.

**O'Donnell A, Rautman ALM, Stodder, ALW.** 2013. Developing a systematic tool for differential diagnosis of juvenile scurvy and rickets in archaeological collections. Poster presented to the Paleopathology Association, Knoxville, Tennessee.

### Collaborative Projects

*Human Demography in the Classic Period Middle Rio Grande (ca. AD 1300–1600).* The project examines population history of the Middle Rio Grande of New Mexico (A.D. 1200s-1400s). We intend to use a combination of human dental morphology, aDNA from fauna (dogs, turkey) and isotopic analyses to track human movements.

Collaborators: Dr. Emily Lena Jones, Jonathan Dombrosky, Dr. Brian Kemp, Dr. Corey Ragsdale

*Cribra orbitalia and porotic hyperostosis in a contemporary sample from the New Mexico Office of the Medical Investigator (OMI).* This project examines presence/absence of cribra orbitalia and porotic hyperostosis in a large CT scan database (NMDID) from the OMI in order to assess whether these lesions appear in children who have died in the state of New Mexico. If they do, we will examine the frequencies they present at and whether they are associated with specific processes (disease, malnutrition).

Collaborators: Dr. Heather Edgar, Ethan Hill, Amy S. Anderson

*Frailty and Ancestry at Asylum Hill, Jackson, Mississippi.* This project examines frailty and its correlation with individual ancestry and skeletal lesions in a historic asylum cemetery.  
Collaborators: Drs. Shamsi Daneshvari Berry and Amy Pearson.

#### Reports and Non-refereed Materials

**O'Donnell L.** 2019. Doctoral Dissertation: Trends in Health, Stress and Migration in the pre-Contact Southwest United States.

Moes, Emily and **O'Donnell, L.** Multiple reports on individual skeletal analyses for Bladen Paleoindian and Archaic Archaeological Project and Uxbenká Archaeological Project.

Stodder, ALWS and **O'Donnell, L.** Multiple reports on skeletal analyses for remains excavated in New Mexico.

#### **Professional Memberships**

American Association of Physical Anthropologists (AAPA)  
Dental Anthropology Association (DAA)  
Paleopathology Association (PPA)  
Society for American Archaeology (SAA)

#### **References**

Dr. Patricia Crown (pcrown@unm.edu, 505-277-6689)  
Dr. Jane Buikstra (buikstra@asu.edu, 480-965-6213)  
Dr. Heather Edgar (hjhedgar@unm.edu, 505-277-4415)