

Alexa P. Kelly

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[Website](#)

EDUCATION

(August 2022)

University of North Texas Health Science Center, Fort Worth, TX
Ph.D. Biomedical Sciences, Structural Anatomy and Rehabilitation Sciences

2016

Florida State University, Tallahassee, FL
B.S Anthropology, Minor in Museum Studies, Magna cum Laude

ACADEMIC APPOINTMENTS

2017 – present

University of North Texas Health Science Center, Fort Worth, TX
Graduate Teaching Assistant

Lecturer

- Structural Anatomy (PHAN 5401) - Masters of Medical Sciences
- Human Embryology (PHAN 6204)
- Joint Admission Medical Program (JAMP)
- Texas Academy of Biomedical Sciences (TABS) Summer Program
- TCOM/PT/PA Pre-Matriculation Anatomy Program

Laboratory Instructor/TA

- Musculoskeletal System 1 (MEDE 7811) - TCOM
- Gastrointestinal/Renal System 1 (MEDE 7611) - TCOM
- Endocrine/Reproductive System 1 (MEDE 7715) - TCOM
- Nervous System 1 (MEDE 7812) - TCOM
- Cardiopulmonary System 1 (MEDE 7615) - TCOM
- Clinical Anatomy 1 (MPAS 5401) – Physician Assistant Program
- Structural Anatomy (PHAN 5401) - Masters of Medical Sciences
- Structural Anatomy (PHAN 5301) - Masters of Medical Sciences
- Joint Admission Medical Program (JAMP)
- Texas Academy of Biomedical Sciences (TABS) Summer Program
- TCOM/PT/PA Pre-Matriculation Program

Spring 2021

Tarrant County College

Supplemental Instructor

- Anatomy & Physiology Lecture and Lab (BIOL 2401)

2015 – 2016

Florida State University

Co-Instructor, Honors Program

- Honors Colloquium (HUM 2944)

Co-Instructor, Undergraduate Research Opportunities Program

- UROP Colloquium (IDS 2920)
- UROP Mentorship training (HUM 4924)

PROFESSIONAL APPOINTMENTS

2015 – 2017

Bureau of Archaeological Research

Florida Department of State, Tallahassee, FL

Archaeological Conservation Technician, Collections & Conservation Lab

RESEARCH INTERESTS

- Functional Anatomy
- Human Osteology
- Geometric Morphometrics

RESEARCH GRANTS

External

- 2021 National Science Foundation - Biological Anthropology DDRIG
“Doctoral Dissertation Research: The Interactive Influence of Environment and Energetics on Human Nasal Morphology” (#2050253) (\$24,087)
- 2020 Wenner-Gren Foundation - Dissertation Fieldwork Grant
“The Interactive Influence of Climate and Energetics on Human Nasal Morphology” (#10009) (\$19,980)
- 2015 U.S. Department of State - Benjamin A. Gilman International Scholarship (\$5,000)

Internal

- 2016 Florida State University - Bess H. Ward Honors Thesis Award
“Analysis of Humeral Trochlear Angles as Possible Biological Sex Characteristic” (\$200)
- 2015 Florida State University - IDEA Grant,
“Analysis of Humeral Trochlear Angles as Possible Biological Sex Characteristic” (\$3,500)

PUBLICATIONS

Journal Articles

- in prep* **Kelly, A.P.**, Ocobock, C., Butaric, L. N., Maddux, S. D. “Energetic demands and sexual dimorphism in Arctic nasal morphology”
- 2022 Baker, S. A., Boyd, A., Anderson, S., **Kelly, A. P.**, Garcia, G., & Campbell, T. L. (2022). Analysis of Humeral Septal Apertures in Forensic and Archaeological Samples. *Forensic Science International: Reports*, 100273
- 2016 **Pennavaria, A.**, Thomas, G.P. (2016) “Analysis of Humeral Trochlear Angles as Possible Biological Sex Characteristic.” *The Owl: The Best of the Owl*, Florida State University. Vol. 6. No. 1: 80-92

Published Abstracts

- 2022 **Kelly, A.P.**, Maddux, S.D. Nasal Morphology and Energetic Demands: A Test of the Respiratory-Energetics Hypothesis. American Association of Clinical Anatomists. [Poster]
- 2022 Warner, A., **Kelly, A.P.**, Maddux, S.D. Virtual reconstruction of 3D skeletal anatomy: A comparison of two methodologies. American Association of Clinical Anatomists. [Interactive Poster]
- 2022 **Kelly, A.P.**, Maddux, S.D. Variability in Skeletal Body Mass Across Ecogeographically Diverse Human Groups, Texas Academy of Science. [Podium]
- 2021 **Kelly, A.P.**, Maddux, S. D. Energetic Demands and Sexual Dimorphism in Inuit Nasal Morphology. American Journal of Physical Anthropology. [Podium]
- 2021 **Kelly, A.P.**, Maddux, S. D. Understanding Energetic Influences on Inuit Nasal Variation Using 3D Morphometrics. Texas Academy of Science. [Podium]
- 2021 Boyd, A., Anderson, S., Baker, S.A., **Kelly, A.P.**, Garcia, G., Campbell, T.L. Preliminary analysis of sex-based differences in supratrochlear foramina prevalence. Texas Academy of Science. [Podium]

- 2020 **Kelly, A.P.**, Ocobock, C., Maddux, S.D. The Interactive Influence of Climate and Energetic Factors on Human Nasal Morphology. American Journal of Physical Anthropology. Vol. 171, S63:139. [Podium]
- 2020 Yokley, T. R., **Kelly, A.P.**, Maddux, S.D. Convergent Adaptation to Climate Extremes in Bear and Human Nasal Anatomy. American Journal of Physical Anthropology. Vol. 171 [Poster]
- 2020 **Kelly, A.P.**, Maddux, S., Ocobock, C. The Interactive Influence of Climate and Energetic Factors on Human Nasal Morphology. Experimental Biology. FASEB J. 34. (S677) [Poster]
- 2020 **Kelly, A.P.**, Ocobock, C, Maddux, S. Being Nose-y: Investigating the influences of climate and energetics on human nasal anatomy. Texas Academy of Science. [Podium]
- 2020 **Kelly, A.P.**, Maddux, S. The Interactive Influence of Climate and Energetic Factors on Human Nasal Morphology." Poster Abstracts, Integrative and Comparative Biology, Volume 60, Issue Supplement_1, March 2020, Page e356, <https://doi.org/10.1093/icb/icaa007> [Poster]
- 2019 **Kelly, A.P.**, Maddux, S.D. The interaction of climatic and energetic factors on human nasal morphology. American Journal of Physical Anthropology. Vol. 168, S68:122. [Poster]
- 2019 **Kelly, A.P.**, Maddux, S.D. "Balancing climatic and energetic demands within the human nose." Texas Academy of Science. [Podium]
- 2018 **Kelly, A.P.**, Maddux, S.D. The Interaction of Climatic and Energetic Factors on Human Nasal Morphology. Proceedings of the Texas Association of Biological Anthropologists Annual Meeting. Vol. 2018, 13. [Poster]
- 2017 **Pennavaria, A.**, Maddux, S.D. Sexual Dimorphism in the Trochlear Angle of the Humerus: A Preliminary Investigation in Hunter-Gatherers and Agriculturalists. Proceedings of the Texas Association of Biological Anthropologists Annual Meeting. Vol. 2017, 23-24. [Poster]
- 2016 **Pennavaria, A.**, Thomas, G.P. Analysis of Humeral Trochlear Angles as Possible Biological Sex Characteristic American Journal of Physical Anthropology. Vol. 159, S62:250. [Poster]

OTHER RESEARCH PRESENTATIONS

- 2022 Warner, A., **Kelly, A.P.**, Maddux, S.D. Virtual reconstruction of 3D skeletal anatomy: A comparison of two methodologies. University of North Texas HSC Research Appreciation Day (RAD) [Poster]
- 2020 Tadlock, J.P., **Kelly, A.P.**, Maddux, S.D. Modern Day Osteometrics: Testing the Concordance of Postcranial Measurements Collected Manually vs. Digital Methods. University of North Texas HSC Research Appreciation Day (RAD) [Poster]
- 2019 Prazak, P., **Kelly, A.P.**, Maddux, S.D. Evaluating Energetic Demands on the Human Nose within a Regional Sample. University of North Texas HSC Research Appreciation Day (RAD) [Poster]
- 2018 Kim, S., **Kelly, A.P.**, Maddux, S.D. Human Nasal Adaptation: Balancing Climatic and Metabolic Demands 8th Asia Pacific International Congress of Anatomists (APICA). Busan, South Korea. [Poster]
- 2018 **Kelly, A.P.**, Maddux, S.D. Sexual Dimorphism in the Trochlear Angle of the Humerus: A preliminary investigation in Hunter-Gatherers and Agriculturalists. University of North Texas HSC Research Appreciation Day (RAD). [Poster]
- 2016 Negales, M., **Pennavaria, A.**, Carrasco, M., Slice, D.E. Analysis of Projectile Point Variance in the Southeastern United States. Florida State University Scientific Computing Symposium. [Poster]
- 2015 **Pennavaria, A.**, Thomas, G.P. Analysis of Humeral Trochlear Angles as Possible Biological Sex Characteristic. AAPA COD Undergrad Research Symposium [Poster]
- 2015 **Pennavaria, A.**, Trumble, E., Negales, M. (2015) Ethnological Study of Endocannibalism and Related Folklore of the Yanomami and Wari. FL Undergraduate Research Conference (FURC). [Poster]

INVITED LECTURES

- 2021* “Follow your nose: climate, energetics, and human evolution” Florida State University, Dept. of Anthropology Invited Speaker Series
- 2021* “Energetic influences on modern human and fossil nasal morphology” University of Florence, Laboratory of Anthropology
- 2020* “Balancing Entrepreneurship and Graduate School” Florida State University Alumni Association Speaker Series
- 2019* “Being Nose-y: Investigating the influences of climate and energetics on human nasal anatomy” University of North Texas Health Science Center Graduate School (G.I.S.T.)
- 2018 - 2021* “Forensic Anthropology,” 11/12th Grade South Carroll High School & Texas Academy of Biomedical Sciences Summer Program

RESEARCH STUDENT MENTORING

- 2021* Amanda Warner, 2nd year DO student, Texas College of Medicine, University of North Texas Health Science Center
- 2020* Aliya Himawan, sophomore Anthropology major, Florida State University ProfessoNole Alumni Mentor program
- 2020* J. Parker Tadlock, Medical Science Masters student, University of North Texas Health Science Center
- 2019* Patrick Prazak, 2nd year DO student, Texas College of Medicine, University of North Texas Health Science Center
- 2019* Amber Cooper, undergraduate student and Summer Research Opportunities in Anatomy (SOAR) intern
- 2018* Cecelia Schaefer, undergraduate student and Summer Research Opportunities in Anatomy (SOAR) intern

AWARDS & HONORS

- 2022* AACA The Sandy C. Marks Jr. Student Poster Presentation Award (\$600)
- 2021* UNTHSC Dean’s Fellowship Incentive Award (\$1000)
- 2021* AAA-AAPA “Anatomy in Anthropology” Student Presentation Award (\$200)
- 2020* American Association of Anatomists Abstract Competition Award (\$250)
- 2020* Texas Academy of Science Graduate Student Oral Presentation Award Competition Finalist
- 2019* G.I.S.T. Presentation Award, Graduate Student Association (\$200)
- 2019 - 2021* Pollitzer Travel Award, American Association of Physical Anthropologists (AAPA) (\$500)
- 2019* UNTHSC Dean’s Graduate Student Travel Award (\$400)
- 2019* Outstanding Graduate Student Award, Center for Anatomical Sciences (\$200)
- 2018* 1st Place Poster, Structural Anatomy & Rehabilitation Sciences, UNTHSC R.A.D. (\$300)
- 2018 - 2021* Structural Anatomy & Rehabilitation Sciences Travel Award (\$500)
- 2015* FSU Blackboard Star Student, Florida State University
- 2013 - 2016* Florida Bright Futures Scholarship, Florida Department of Education

FIELD EXPERIENCE

Museum Collections Research

- Fall 2021* Natural History Museum, Vienna, Austria
Musée de l’Homme, Paris, France
University of Coimbra, Coimbra, Portugal
University of Bordeaux, Bordeaux, France
Museum of the University of Florence, Florence, Italy
University of Tübingen, Tübingen, Germany
- Spring 2020* Southern Methodist University, Dallas, TX

Fall 2018 Seoul National University, Seoul, Korea

Summer 2018 American Museum of Natural History, New York, NY
Penn Museum, Philadelphia, PA

Summer 2015 University of Tübingen, Tübingen, Germany
University of Vienna, Vienna, Austria

Archaeological Excavations

Summer 2016 FSU Dept. of Anthropology summer field school, Havana, FL

Summer 2015 La Ferrassie field site, Dordogne region, France

CERTIFICATIONS & WORKSHOPS

2022 Advanced Cardiac Life Support (ACLS)

2021 COSMED K5: wearable metabolic system training

2021 Automated 3D GM In 3Dslicer, Slicermorph (By Dr. Patricia Brennan, Mount Holyoke College)

2021 Kahoot! Edu Virtual Learning Summit, Verified Kahoot! Educator

2021 Complete Anatomy: Advanced 3D Anatomy Platform Educator Training

2021 Dragonfly: Image Processing, Automation, Segmentation (ToSCA International Conference)

2020 Analysis of Organismal Form (By Chris Klingenberg, University of Manchester)

2020 Human Bone Histology Workshop Series (Australian National University)

2020 UNTHSC Center of Innovative Learning Teaching Assistant “Boot Camp” 2020

2020 SICB Division of Ecology & Evolution 7th Annual Networking Workshop

2020 SICB Evo-Devo Career Mentoring Workshop

2018 3D Digitizing Techniques Using CT Scans With 3d Slicer Software (By Dr. Lauren Butaric, Des Moines Univ.)

2018 3D Morphology With Open-Source Software, Aapa Workshop (By Dr. Murat Maga, Seattle Children's Hospital)

2018 - Present Human Subjects Research; Conflicts of Interest; FERPA (Citi Program Training)

2015 Physical and Forensic Anthropology Workshop (Dr. Robert W. Mann, JPAC)

2015 NIH Human Subjects Training Certificate, Florida State University

OUTREACH & SERVICE

2022 American Association of Biological Anthropologists Meeting Volunteer

2021 Cadaver Lab Tour, Tarrant County College Health Science Club

2021 UNTHSC – FSU Shadow Joint Graduate/Medical School Shadow Day Host

2021 - 2022 Planning Committee Member (UNTHSC host), American Association of Clinical Anatomists

2021 Appointed member, UNTHSC Core Curriculum Restructuring Committee

2020 - 2021 Anthropology Section Chair, Texas Academy of Science (TAS)

2020 Logistics Coordinator, 500 Women Scientists DFW Pod

2020 Student Awards Judge, Texas History Fair (Fort Worth, TX)

2020 - 2021 Science communicator, Skype-A-Scientist

2019 - 2021 Mentor, Arlington ISD Coaching-Up Program

2019 - 2021 Mentor, Florida State University Alumni Association

2019 - 2021 Student Awards Judge, Texas Academy of Science (TAS) Collegiate Council

2019 - 2020 UNTHSC Graduate Student Association Ambassador

2018 Volunteer, STEM outreach, Fort Worth Museum of Science and History

2017 Volunteer, Clayton Youth Enrichment (Fort Worth, TX)

2016 - 2020 Panel moderator & Ambassador, U.S. Department of State Gilman Program

2016 Volunteer, 6-8th Grade Darwin Day (Tallahassee, FL)

2016 - 2017 Student Awards Judge, Florida History State Competition (Tallahassee, FL)

2013 - 2016 Member & Conference Coordinator, Anthropology Society at FSU (ASFSU)

MEMBERSHIPS

<i>2021 - present</i>	Tomography for Scientific Advancement Society (ToScA)
<i>2020 - present</i>	American Association of Clinical Anatomists (AACCA)
<i>2020 - present</i>	500 Women Scientists
<i>2019 - present</i>	Experimental Biology, American Association for Anatomy (AAA)
<i>2019 - present</i>	Society of Integrative and Comparative Biology (SICB)
<i>2019 - present</i>	Texas Academy of Science (TAS)
<i>2017 - present</i>	Texas Association for Biological Anthropologists (TABA)
<i>2015 - present</i>	American Association of Biological Anthropologists (AABA)
<i>2015</i>	Southeastern Evolutionary Perspectives Society (SEEPS)
<i>2016</i>	Phi Beta Kappa Honors Society
<i>2011 - 2013</i>	National Honors Society