

**RESEARCH AND TEACHING INTERESTS**

Human variation, virtual and computational anthropology, data science, growth and development

**EDUCATION**

- 2018 – 2022      Doctor of Philosophy, Biological Anthropology, Department of Anthropology, University of Nevada, Reno, Nevada  
*Explorations into Appendicular Ontogeny using a Cross-Sectional, Contemporary U.S. Sample*  
**Advisor:** Dr. Kyra E. Stull, D-ABFA
- 2016 – 2018      Master of Arts, Biological Anthropology, Department of Anthropology, Texas State University, San Marcos, Texas  
*Body Mass Estimation: Preliminary Population Specific Equations for South Texas Migrant Hispanics and an Evaluation of Geographic Variation within a Population*  
**Advisor:** Dr. M. Kate Spradley
- 2012 – 2016      Bachelor of Science, Department of Anthropology, Honors College, Michigan State University, East Lansing, Michigan  
▪ Minor in German, Department of Linguistics and Languages

**FUNDING & AWARDS**

- 2023 – 2024      Emerging Forensic Scientist Award, Forensic Sciences Foundation, Inc.
- Spring 2023      Student Affiliate Scholarship, Forensic Sciences Foundation, Inc. | complimentary registration for the AAFS 75<sup>th</sup> Annual Scientific Meeting
- 2022 – 2023      Fellow, Russell J. and Dorothy S. Bilinski Fellowship, University of Nevada, Reno | \$32,000 – *Spring semester not applied due to graduation*
- Spring 2022      Graduate Student Association Travel Award, University of Nevada, Reno | \$500
- Spring 2021      National Science Foundation – Biological Anthropology Doctoral Dissertation Improvement Grant (DDRIG) | *Not awarded*  
  
Wenner Gren – Dissertation Fieldwork Grant | *Not awarded*
- Spring 2020      Graduate Student Association Travel Award, University of Nevada, Reno | \$500 *Not applied due to COVID-19*

- Student Scholarship Award, Forensic Sciences Foundation, Inc. | complimentary registration for the AAFS 72<sup>nd</sup> Annual Scientific Meeting
- Spring 2019 Public Engagement Award, University of Nevada, Reno – Anthropology Department
- Graduate Student Association Travel Award, University of Nevada, Reno | \$500
- 2018 – 2019 Graduate Dean’s Merit Scholar, University of Nevada, Reno | \$10,000
- Graduate Student Access Grant, University of Nevada, Reno | \$3,000
- Spring 2018 First Place Winner, Texas State 3MT® University Competition, Texas State University in San Marcos | \$1,075
- Graduate Student Travel Award, Texas State University in San Marcos | \$900
- Fall 2017 FACTS Scholarship, Texas State University in San Marcos | \$1,000
- Summer 2017 Graduate College Scholarship, Texas State University in San Marcos | \$500
- Fall 2016 Graduate College Scholarship, Texas State University in San Marcos | \$1,000
- The President’s Volunteer Service Award, Corporation for National and Community Service, President Barack Obama

## **EMPLOYMENT & ASSISTANTSHIPS**

- 2023 – Present Postdoctoral Fellow, Johns Hopkins University – Department of Functional Anatomy and Evolution
- Software programming for body mass estimation using CT scans (NIJ 2020-R2-CX-0048)
- 2018 – Present Data Analyst and Consultant
- Assistance in developing and implementing statistical and computational analyses to various research projects including:
    - Masters theses, Doctoral dissertations
    - Conference presentations
    - Creation of graphical user interface (GUI)
- 2020 – 2022 Graduate Research Assistant, University of Nevada, Reno – Department of Anthropology
- Cranial macromorphoscopic traits for a subadult dataset from CT scans (NIJ 2019-DU-BX-0039)
  - Training in virtual craniometrics, dental morphology, and odontometrics
- 2019 Transitional Officer, BOASgrad, University of Nevada, Reno – Department of Anthropology

- Secretary and treasurer of the Anthropology graduate student association during the COVID-19 pandemic
  
- 2018 – 2020 Graduate Research Assistant, University of Nevada, Reno – Department of Anthropology
  - Diaphyseal measurements for a worldwide subadult dataset from CT and Lodox scans (NIJ 2015-DN-BX-K009)
  - Model optimization and programming assistance in R
    - yada – a package for mixed-cumulative probit analyses
  
- 2016 – 2018 Graduate Research Assistant, Grady Early Forensic Anthropology Lab, Texas State University – Department of Anthropology
  - Maintain and organize paperwork for the FACTS Body Donation program
  - Inventory and curate the Texas State University Donated Skeletal Collection
  - Upload, catalogue, and organize daily photos for the longitudinal decomposition study
  
- Summer 2017 Forensic Anthropology Intern, Office of the Medical Examiner, WMU Homer Stryker M.D. School of Medicine, Western Michigan University – Department of Pathology, Jered B. Cornelison, PhD and Carolyn V. Isaac, PhD
  - Wrote case reports for positive identifications
  - Estimated biological profiles and wrote case reports for unidentified individuals
  
- Spring 2016 Intern, St. Vincent Catholic Charities – Refugee Services
  - Presented two lectures to new arrivals at the Welcome Orientation once a week
  - Monthly home visits and bi-weekly correspondence with clients
  
- 2015 – 2016 Dean’s Assistant, MSU Mis Island Nubian Bioarchaeology Lab, MSU College of Social Science, Todd Fenton, PhD, D-ABFA
  - Fully funded research on postcranial sex estimation
  
- Spring 2015 Laboratory Assistant, MSU Mis Island Nubian Bioarchaeology Lab, MSU College of Social Science, Todd Fenton, PhD, D-ABFA, Valerie Leah, BS
  - Assisted in the documentation of skeletal trauma for Thesis research

Lansing Sparrow Hospital Pathology Department, volunteer

  - Assisted in autopsies
  - Responsible for fingerprinting and hand-printing all cases
  - Cleaned stations post-autopsy
  
- Fall 2014 Intern, St. Vincent Catholic Charities – Refugee Service
  - Presented two lectures to new arrivals at the Welcome Orientation once a week
  - Monthly home visits and bi-weekly correspondence with clients

- Transported clients to job interviews, hospital visits, and ESL class
- 2013 – 2015 Academic Tutor, MSU Student-Athlete Support Services
  - Specialized in mathematics courses up to calculus and chemistry up to organic chemistry
  - Assisted Student-Athletes in understanding course material on a weekly basis in preparation for examinations
- 2013 – 2015 Teaching Assistant, MSU Center for Language Teaching Advancement
  - Taught full immersion German to children aged 4 – 12 years-old

## PUBLICATIONS

- Becker, SK, Stull, KS, & **Chu, EY**. (2023). Designing databases and using Generalized Estimating Equations (GEE) for etheseal datasets: An example from the Tiwanaku Culture (AD 500-1100). *Int J Osteoarchaeol*, Early View.
- Stull, KE, **Chu, EY**, Corron, LK, & Price, MH. (2023). Mixed Cumulative Probit: A multivariate generalization of transition analysis that accommodates variation in the shape, spread, and structure of data. *R Soc Open Sci*, 10(3), 220963.
- Stull, KE, **Chu, EY**, Corron, LK, & Price, MH. (2022). Subadult age estimation using the Mixed Cumulative Probit and a contemporary United States population. *Forensic Sci 2*, 741-779.
- Chu, EY**, Stull, KE, & Sylvester, AD. (2022). An alternative size variable for allometric investigations in subadults. *Am J Biol Anthropol* 179(3), 471-480.
- Corron, LK, Broehl, KA, **Chu, EY**, Vlemincq-Mendieta, T, Wolfe, CA, Pilloud, MA, Scott, GR, Spradley, MK, & Stull, KE. (2022). Agreement and error rates associated with standardized data collection protocols for skeletal and dental data on 3D virtual subadult crania. *Forensic Sci Int* 334, 11272.
- Go, MC, Yukyi, N, & **Chu, EY**. (2021). On WEIRD anthropologists and their white skeletons. *Forensic Anthropol* 4(4), 145-160.
- Passalacqua, NV, **Chu, EY**, & Pilloud, MA. (2020). Salaries in forensic anthropology and academic anthropology. *Forensic Anthropol* 3(2), 120-131.
- Jazwa, CS, Wolfe, CA, **Chu, EY**, & Stull, KE. (2020). The effects of vertical position in the intertidal zone on the  $\delta^{18}\text{O}$  and  $\delta^{13}\text{C}$  composition of *Mytilus californianus* shell carbonate. *J Archaeol Sci Rep* 34, 102587.

## *Open-Source Graphical User Interfaces*

- Chu, EY** & Stull, KS. (2023). KidStats: Stature – A graphical user interface for subadult stature estimation. Version 1.0. <https://elaineychu.shinyapps.io/ks-stature/>
- Stull, KE & **Chu, EY**. (2022). MCP-S-Age: a GUI to estimate subadult skeletal age. Version 1.0. <https://kyra-stull.shinyapps.io/MCP-S-Age/>

Cole, SJ, **Chu, EY**, & Stull, KE. (2022). OnSEt: The Ontogenetic Subadult Sex Estimation System. Version 1.0. <https://stephanie-j-cole.shinyapps.io/OnSEt-System/>

Hulse, CN & **Chu, EY**. (2021). tRauma: A dynamic database of blunt rib trauma. Version 1.0. <https://cnhulse.shinyapps.io/tRauma>

### ***Open-Source Protocols***

Stull, KE, **Chu, EY**, Wolfe, CA, Broehl, KA, Vlemincq-Mendieta, T, Pilloud, MA, Scott, GR, Spradley, MK, & Corron, LK. (2022). Subadult Virtual Anthropology Database (SVAD) Data Collection Protocol: Cranial Macromorphoscopies.

Spradley, MK, Wolfe, CA, Stull, KE, **Chu, EY**, Broehl, KA, Vlemincq-Mendieta, T, Pilloud, MA, Scott, GR, & Corron, LK. (2021). Subadult Virtual Anthropology Database (SVAD) Data Collection Protocol: Cranial Landmarks and Craniometrics.

Pilloud, MA, Broehl, KA, **Chu, EY**, Stull, KE, Vlemincq-Mendieta, T, Wolfe, CA, Scott, GR, Spradley, MK, & Corron, LK. (2021). Subadult Virtual Anthropology Database (SVAD) Data Collection Protocol: Odontometrics.

Scott, GR, Vlemincq-Mendieta, T, Stull, KE, **Chu, EY**, Broehl, KA, Wolfe, CA, Spradley, MK, Pilloud, MA, & Corron, LK. (2021). Subadult Virtual Anthropology Database (SVAD) Data Collection Protocol: Dental Morphological Traits.

## **PROFESSIONAL EXPERIENCE**

### ***Organized Symposia***

2022 Pioneers of Color: A Diverse Narrative of Forensic Anthropology. Co-organizers: Go, MC, **Chu, EY**, Yukyi, N, & Clemmons, CMJ. 74<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. February 25.

### ***Oral Presentations***

2023 **Chu, EY** & Stull, KE. “Nonlinear modeling of long bone ontogeny to investigate final adult size.” 92<sup>nd</sup> Annual Meeting of the American Association of Biological Anthropologists. Reno, NV. April 22.

Vlemincq-Mendieta, T, **Chu, EY**, Dern, LL, & Scott, GR. “The missing data problem: Imputation methods for dental nonmetric traits.” 92<sup>nd</sup> Annual Meeting of the American Association of Biological Anthropologists. Reno, NV. April 20.

**Chu, EY** & Stull, KE. “Expanding the Scope of Subadult Stature Estimation.” 75<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Orlando, FL. February 17.

New, BT, Auchter, LE, **Chu, EY**, Corron, LK, & Stull, KE. “The Covariance, Correlation, and Mutual Information of Cranial Macromorphoscopic Traits and Interlandmark Distances.” 75<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Orlando, FL. February 17.

Cole, SJ, **Chu, EY**, & Stull, KE. “Introducing OnSEt: The Ontogenetic Subadult Sex Estimation System.” 75<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Orlando, FL. February 17.

- 2022 **Chu, EY**, Wolfe, CA, Corron, LK, Price, MH, & Stull, KE. “Advances in Subadult Age Estimation: Evaluating the Performance of the Mixed Cumulative Probit (MCP) on Contemporary Subadults.” 91<sup>st</sup> Annual Meeting of the American Association of Biological Anthropologists. Denver, CO. March 25.
- Stull, KE, **Chu, EY**, Corron, LK, Wolfe, CA, & Price, MH. “Advances in Subadult Age Estimation: The Mixed Cumulative Probit (MCP) and the Subadult Virtual Anthropology Database (SVAD).” 91<sup>st</sup> Annual Meeting of the American Association of Biological Anthropologists. Denver, CO. March 25.
- Wolfe, CA, **Chu, EY**, Corron, LK, Price, MH, & Stull, KE. “Advances in Subadult Age Estimation: Using Information Theory to Explore the Relationship between Growth Indicators and Age.” 91<sup>st</sup> Annual Meeting of the American Association Biological Anthropologists. Denver, CO. March 25.
- Afra, K, **Chu, EY**, & Garcia, SS. “Objectivity in the Historical Narrative of Forensic Anthropology.” 74<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Seattle, WA. February 24.
- Chu, EY**, Yukyi, N, & Go, MC. “Homework for Modern Forensic Anthropologists.” 74<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Seattle, WA. February 24.
- Go, MC, **Chu, EY**, Yukyi, N, Yim, A, Dwyer, I, Craig, AE, Goliath, JR,..., & Robledo, I. “Pioneers of Color: Diversifying the Pantheon of Forensic Anthropology Luminaries.” 74<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Seattle, WA. February 24.
- Hulse, CN, **Chu, EY**, & Stull, KE. “tRauma: A New Application for Aiding in Blunt Rib Trauma Interpretations.” 74<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Seattle, WA. February 25.
- Stull, KE, **Chu, EY**, & Corron, LK. “From Subadult to Adult: The Expression of Cranial Macromorphoscopic Traits Through Ontogeny.” 74<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Seattle, WA. February 24.
- 2021 Yukyi, N, **Chu, EY**, & Go, MC. “Forensic Anthropology is WEIRD: Knowledge Production by Whom for Whom.” 73<sup>rd</sup> Annual American Academy of Forensic Sciences Meeting, Virtual. February 18.
- 2020 Stull, KE, Price, MH, Corron, LK, & **Chu, EY**. “Subadult Age Estimation Using a Mixed Cumulative Probit and Its Application in KidStats.” 72<sup>nd</sup> Annual American Academy of Forensic Sciences Meeting, Anaheim, CA. February 21.
- 2018 **Chu, EY**. “Using Body Mass Estimation to Reunite Families.” Texas State 3MT® University Competition, Texas State University, San Marcos, TX. April 3.
- Chu, EY** & Spradley, MK. “Body Mass Estimation: Preliminary Equations for the Undocumented South Texas Migrants Using Bayesian Inference.” 70<sup>th</sup> Annual American Academy of Forensic Sciences Meeting, Seattle, WA. February 23.

### ***Poster Presentations***

- 2023 Broehl, KA, Corron, LK, **Chu, EY**, Pilloud, MA, Stull, KE. “Odontometric sexual dimorphism in a U.S. subadult sample.” 92<sup>nd</sup> Annual Meeting of the American Association of Biological Anthropologists. Reno, NV. April 22.
- Auchter, LE, New, BT, **Chu, EY**, Corron, LK, & Stull, KE. “Exploring Macromorphoscopic Traits in Relation with Craniofacial Ratios.” 75<sup>th</sup> Annual American Academy of Forensic Sciences Meeting. Orlando, FL. February 17.
- 2022 Broehl, KA, Corron, LK, **Chu, EY**, Pilloud, MA, & Stull, KE. “Protocols and observer rates for odontometric data collection on 3D virtual subadult crania.” 91<sup>st</sup> Meeting of the American Association of Biological Anthropologists, Denver, CO.
- Chu, EY**, Wolfe, CA, Corron, LK, & Stull, KE. “Advances in Subadult Age Estimation: Evaluating the Performance of the Mixed Cumulative Probit (MCP) on Contemporary Subadults.” 91<sup>st</sup> Meeting of the American Association of Biological Anthropologists, Denver, CO. March 25.
- Wolfe, CA, **Chu, EY**, Corron, LK, Price, MH, & Stull, KE. “Advances in Subadult Age Estimation: Using Information Theory to explore the relationship between growth indicators and age.” 91<sup>st</sup> Meeting of the American Association of Biological Anthropologists, Denver, CO. March 25.
- 2021 **Chu, EY** & Stull, KE. “A Proposed Method for Studying Allometric Relationships without Stature.” 90<sup>th</sup> Meeting of the American Association of Physical Anthropologists. *Updated from 2020 – Virtual Conference.*
- Cole, SJ, **Chu, EY**, Stull, KE. “Testing new trait definitions and scoring procedures for subadult sex estimation.” 90<sup>th</sup> Meeting of the American Association of Physical Anthropologists. *Virtual Conference.*
- Yukyi, NY, Chu, EY, Spradley, MK. “Multivariate Comparison of East and Southeast Asian Cranial Morphology.” 90<sup>th</sup> Meeting of the American Association of Physical Anthropologists. *Virtual Conference.*
- 2020 **Chu, EY** and Stull, KE. “A Proposed Method for Studying Allometric Relationships without Stature.” 89<sup>th</sup> Meeting of the American Association of Physical Anthropologists. *Not presented due to COVID-19.*
- Wolfe, CA, Corron, LK, **Chu, EY**, and Stull, KE. “Vertebral Neural Canal Dimensions as Indicators of Socio-economic Status and Population-level Differences in Contemporary Subadult Samples.” 89<sup>th</sup> Meeting of the American Association of Physical Anthropologists. *Not presented due to COVID-19.*
- Yukyi, N, **Chu, EY**, Spradley, MK. “Multivariate Comparison of East and Southeast Asian Cranial Morphology.” 89<sup>th</sup> Meeting of the American Association of Physical Anthropologists, Invited Symposium. *Virtual Conference.*
- Chu, EY** and Stull, KE. “Applicability of Intralimb Indices in the Subadult Biological Profile.” 72<sup>nd</sup> Annual American Academy of Forensic Sciences Meeting, Anaheim, CA. February 19.

- Passalacqua, NV, **Chu, EY**, and Pilloud, MA. “Salary, wage transparency, and forensic anthropology.” 72<sup>nd</sup> Annual American Academy of Forensic Sciences Meeting, Anaheim, CA. February 20.
- 2019 **Chu, EY** and New, BT. “Exploring the Effect of Socioeconomic Factors on Body Size and Health in the United States from 2000-2018.” 88<sup>th</sup> Meeting of the American Association of Physical Anthropologists, Cleveland, OH. March 29.
- 2018 **Chu, EY**, New, BT, and Rogers, MV. “Relationships Between Socioeconomic Categories and Health in the United States.” Women in Science and Engineering Conference, Texas State University, San Marcos, TX. March 2.
- 2012 **Chu, EY**, Niespodziewanski, E, and Fenton, TW. “Postcranial Sex Estimation of a Medieval Nubian Collection.” Undergraduate Research and Arts Forum, Michigan State University, East Lansing, MI.

### *Teaching*

- Summer 2022 Presenting Assistant, Workshop: An Introduction to R and Geometric Morphometrics, University of Pretoria, South Africa
- In-person: “Data Munge – Base R”
- Graduate Teaching Assistant, Workshop: Applied Biostatistics Using R, University of California, Riverside
- In-person: “Data Munge”, “Visualizing Data”, “Hypothesis Testing”, “Outliers and Assumptions”, “Cluster Analysis”, “Tree-based Methods”,
- Graduate Teaching Assistant, ANTH 706: Applied Biostatistics Using R, University of Nevada, Reno
- In-person: “Data Munge”, “Visualizing Data”, “Cluster Analysis”, “Tree-based Methods”
- Spring 2022 Guest Lecture, ANTH 482: Forensic Anthropology, University of Nevada, Reno
- In-person: “Subadult Age Estimation”
- Summer 2021 Guest Lecture, ANTH 102: Introduction to Physical Anthropology, University of Nevada, Reno
- In-person: “Forensic Anthropology”
- Invited Speaker, Brown Bag: Diversity Series, Defense POW/MIA Accounting Agency
- Synchronous online: “On WEIRD Anthropologists and their White Skeletons”
- Spring 2021 Unofficial Teaching Assistant, ANTH 706: Applied Biostatistics Using R, University of Nevada, Reno
- In-person lecture: “Visualizations with GGPlot2 and DPLYR”



- Summer 2020      Guest Lecture, ANTH 102: Introduction to Physical Anthropology, University of Nevada, Reno
- Asynchronous online “Human Variation, Adaptation, & Ecogeography”
- Spring 2020      Unofficial Teaching Assistant, ANTH 706: Applied Biostatistics Using R, University of Nevada, Reno
- Fall 2019        Guest Lecture, ANTH 102: Introduction to Physical Anthropology, University of Nevada, Reno
- In-person: “Genes and Their Evolution: Population Genetics”

### ***Service***

- 2023              Member, Ad-hoc Committee on Membership, Anthropology Section, American Academy of Forensic Sciences
- 2022              Member, Ad-hoc Committee on Membership, Anthropology Section, American Academy of Forensic Sciences
- Moderator, 74<sup>th</sup> Annual American Academy of Forensic Sciences Conference

### ***Workshops***

- October 2019    Attendee, Metagenomic Analysis, National Center for Genomic Analysis Support (NCGAS), Indiana University, Bloomington, IN.
- March 2019      Attendee, Dental Development, Dental Anthropology Association, 88<sup>th</sup> Annual Meetings of the American Association of Physical Anthropologists, Cleveland, OH.
- April 2017       Attendee, Dental Morphology and ASUDAS with Dr. G. Richard Scott, Forensic Anthropology Center at Texas State University, San Marcos, TX.

### ***Certificates***

- 2022              *Process Flowcharts & Process Mapping – The Beginner’s Guide* by The BA Guide
- UX Designs & User Experience Design Course – Theory Only* by Daniel Walter Scott
- 2021              *R Shiny Interactive Web Apps – Next Level Data Visualization* by R-Tutorials Training

## **PROFESSIONAL AFFILIATIONS**

American Academy of Forensic Science – *Student Affiliate since 2017*  
 American Association of Physical Anthropology – *Student Member since 2017*

## LAB & FIELD EXPERIENCE

- June – July 2019 Archaeological Field Technician, Western Carolina University in partnership with the Defense POW/MIA Accounting Agency, Züllsdorf, Germany, **PI:** Nicholas Passalacqua, PhD, D-ABFA, **Co-PI:** Kate Kolpan, PhD
- Survey and excavation of potential missing service member from World War II
  - Translated German and English for successful completion of project
- November 2018 Camp Fire Human Remains Search and Recovery, Coroner's / Forensic Anthropology Teams, Chico State University / University of Nevada, Reno, Paradise, California, **Directors:** Eric J. Bartelink, PhD, D-ABFA, Colleen F. Milligan, PhD
- March 2018 South Texas Sacred Heart Cemetery Survey, Operation Identification, Texas State University, Falfurrias, Texas, **Director:** Kate Spradley, PhD
- Identified potential areas of interest for future excavations of unmarked graves
- January 2018 South Texas Tres Norias Cemetery Exhumations, Operation Identification, Texas State University, Willacy County, Texas, **Director:** Kate Spradley, PhD
- Exhumed 38 unidentified individuals from unmarked graves
  - Conducted intake and documented personal effects for each individual
- May 2017 South Texas Rio Grande City Cemetery Exhumations, Operation Identification, Texas State University, Rio Grande City, Texas, **Directors:** Kate Spradley, PhD, Tim Gocha, PhD
- Exhumed 13 unidentified individuals from unmarked graves
- January 2017 South Texas Sacred Heart Cemetery Exhumations, Operation Identification, Texas State University, Falfurrias, Texas, **Directors:** Kate Spradley, PhD, Tim Gocha, PhD
- Exhumed 22 unidentified individuals from marked and unmarked graves
  - Conducted intake and documented personal effects for each individual
  - Searched for corresponding records from the Brooks County Sheriff's Office
- 2016 – 2018 Forensic Anthropology Research Facility, Texas State University, San Marcos, Texas
- Weekly photo and written documentation of the longitudinal decomposition study
  - Conduct disarticulations of remains

Grady Early Forensic Anthropology Lab, Texas State University, San Marcos, Texas

- Search and excavation of allegedly buried remains, Hays County, Texas – 11/9/2017
- Recovery of burned remains, Kerr County, Texas – 11/5/2016
- Photograph documentation of forensic case, Hays County, Texas – 10/2016
- Search and recovery of scattered remains and biological profile, Llano County, Texas – 4/2/2017

2016 – 2018 Osteology and Research Processing Lab, Texas State University, San Marcos, Texas

- Processing, inventory, labeling and curation of the TxState Donated Body Collection

Summer 2015 Alberese Archaeological Field School, UK Sheffield University, Grosseto, Italy, **Instructor:** Alessandro Sebastiani, PhD

- Three-week certificate for the archaeological recovery of a Roman Villa
- Learned to document an archaeological site by hand

Spring 2015 Analysis of human remains (n=408, bioarchaeological), MSU Mis Island Nubian Bioarchaeology Lab, East Lansing, Michigan

- Documented skeletal trauma on adult individuals
- Conducted postcranial measurements on adult individuals

Summer 2014 Human Identification and Forensic Anthropology Study Abroad Program, Michigan State University, London, United Kingdom, **Instructors:** Todd Fenton, PhD, D-ABFA, Norman Sauer, PhD, D-ABFA

- Five-week introductory course for forensic anthropology
- Week-long osteology course in Bournemouth University

## PUBLIC OUTREACH

2022 Invited Guest, Forensic Anthropology Companion Podcast, Episode 16, *not yet released*

Editorial Contributor, Anthropological Airwaves Podcast, Season 04, Episode 2: “The Myth of Closure”

- Sound quality and interview editor

2016 – 2018 Speaker, Forensic Anthropology Center at Texas State, Texas State University, San Marcos, Texas

- 10+ presentations to law enforcement, high schools, at STEM events, Girl Scouts troops, universities
  - Introduced the field of biological anthropology
  - Summarized on-going research and activities associated with FACTS
  - Provided tour of the Grady Early Building

- Demonstrated differences between human and non-human skeletal material

July 2017                      Outreach, Office of the Medical Examiners Office of Kalamazoo County, to Navy Cadet Day, Kalamazoo, Michigan

- Introduced the field of forensic anthropology
- Summarized the role of a forensic anthropologist in an office of the medical examiners setting
- Led a tour of the forensic anthropology lab

**LANGUAGES**

German (verbal, written fluency)	R programming language
Mandarin Chinese (verbal fluency)	Python programming language
C++ programming language	Linux programming language

**SKILLS & SOFTWARE**

Machine Learning	Dental & Medical Radiographic Comparison
Functional Programming	Biodistance Analyses
Microsoft Office Suite	Object Oriented Programing

**RELEVANT COURSES TAKEN**

(\*) = Unofficial audit

Spring 2021	Applied Bayesian Data Analysis (CHS 717) Science, Technology, and Society (PHIL 480*)
Fall 2021	Problems in the History and Philosophy of Science (PHIL 712*) Internship at the Washoe County Medical Examiners Office (ANTH 760)
Spring 2020	Lab Seminar in Osteology (ANTH 762) Seminar in Linguistic Anthropology (ANTH 709) Bayesian Hierarchical Modeling (NRES 701B) Human Growth and Development (ANTH 665*)
Fall 2019	Dental Anthropology (ANTH 664) Topics in Evolution (EECB 752) Machine Learning (CS 691)
Spring 2019	Gross Anatomy (ANTH 710) Graduate Research (ANTH 702) – Multivariate Statistics
Fall 2018	Seminar in Physical Anthropology (ANTH 704) Seminar in Cultural Anthropology (ANTH 703) Advanced Analysis Methods (NRES 746)
Spring 2018	Advanced Methods in Skeletal Biology (ANTH 5376)

Communicating Science (BIO 7360X)

Fall 2017      Human Biological Variation and Adaptation (ANTH 5343)  
Seminar in Archaeology (ANTH 5313)

Spring 2017    Multivariate Quantitative Methods (GEO 5301)  
Seminar in Biological Anthropology (ANTH 5312)  
Methods in Skeletal Biology (ANTH 5375)

Fall 2016      Anthropological Statistics (ANTH 5305)  
Research Design in Biological Anthropology (ANTH 5333)  
Seminar in Cultural Anthropology (ANTH 531)