ELAINE Y. CHU

Curriculum Vita
Assistant Professor
Department of Anthropology
Texas State University
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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*
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*
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

Fall 2025	Alpha Chi National Honor Society Favorite Professor, Texas State University
Summer 2025	National Science Foundation – Faculty Early Career Development Program (CAREER) | *Pending*
2025 – 2026	Research Enhancement Program, Texas State University | $8,000
2024 – 2025	College of Liberal Arts Research Grant, Texas State University | $4,000
2023 – 2024	Emerging Forensic Scientist Award, Forensic Sciences Foundation, Inc.
Spring 2023	Student Affiliate Scholarship, Forensic Sciences Foundation, Inc. | complimentary registration for the AAFS 75th 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 72nd 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 — Assistant Professor, Texas State University – Department of Anthropology
- Board Member of the Forensic Anthropology Center at Texas State

2023 — Postdoctoral Fellow, Johns Hopkins University School of Medicine – Center for Functional Anatomy and Evolution
- Researcher and software programmer for body mass estimation using CT scans of the skeleton (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: o Masters theses, Doctoral dissertations o Conference presentations o 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 o 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

Dobson, K, Burges, C, Clark, P, Schapiro, SJ, Lambeth, SP, Blair, M, **Chu, EY**, Pruetz, J, & Carlos-Shanley, C. (*In review*). Influence of facility-living on squirrel moneky (*Saimiri*) gut microbiome biodiversity: Comparison with wild Costa Rican conspecifics. *Am J Primatol*.

Pettigrew, DB, Whittaker, JC, & **Chu, EY**. (2026). Testing and reconsidering atlatl dart ballistics: Human and equipment variables. *J Anthropol Archaeol 81*, 101750.

Rivera, M, Haque, T, Anadon, EM, Choy, KW, **Chu, EY**, Delta, BM, Heo, CC, …, & Yuwono, P. (2026). Best practices for scientific collaboration and ethical considerations when working with human remains in Southeast Asia. *Int J Osteoarchaeol 36*, 894-902.

Haque, T, Anadon, EM, Choy, KW, **Chu, EY**, Delta, BM, Heo, CC, Koesbardiati, T, …, & Rivera, M. (2026). Emic-etic perspectives in Southeast Asian cultural attitudes surrounding human remains. *Int J Osteoarchaeol 36*, 150-157.

Chu, EY, Treviño, AJ, Vasquez, ME. (2025). Validation of subadult age and stature estimation methods using a contemporary Japanese sample. *Forensic Sci 5*(41), 1-22.

Chu, EY & Stull, KE. (2024). An investigation of the relationship between long bone measurements and stature: Implications for estimating skeletal stature in subadults. *Int J Legal Med 139*, 441-453.

Stull, KS, New, BT, Corron, LK, Auchter, LE, Spradley, MK, Wolfe, CA, **Chu, EY**, Hefner, JT. (2024). Exploring mutual and exclusive biological information in cranial metric and morphological variables. *Forensic Anthropol 7*(2-3), 1-23.

Sylvester, AD, Zbijewski, W, Shi, G, Meckel, LA, **Chu, EY**, Cunningham, DL, & Wescott, DJ. (2024). Macroscopic differences in adult human femora are linked to body mass. *Anat Rec 307*(8), 2846-2857.

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, 33*(3), 429-443.

Go, MC, Dwyer, I, Loewen, TN, Yukyi, N, Clemmons, C, Garcia, SS, Afra, K…, **Chu, EY**, … Goliath, JR. (2023). Pioneers of Color: A counternarrative of foundational figures in forensic anthropology's history. *Forensic Anthropol 6*(4), 206-217.

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 δ18O and δ13C composition of *Mytilus californianus* shell carbonate. *J Archaeol Sci Rep 34*, 102587.

Book Chapters

Stull, KE, **Chu, EY**, Wolfe, CA, & Corron, LK. (2025). Chapter 6: Application of subadult age estimation. In KE Stull & HM Garvin (Eds.). *A visual atlas of skeletal growth and development*. Oxfordshire, UK: Taylor & Francis.

Garvin, HM, Stull, KE, Corron, LK, **Chu, EY**, Auchter, LE, & Stone, A. (2025). Chapter 4: The lower limb. In KE Stull & HM Garvin (Eds.). *A visual atlas of skeletal growth and development*. Oxfordshire, UK: Taylor & Francis.

Garvin, HM, Stull, KE, Corron, LK, Porter, H, & **Chu, EY**. (2025). Chapter 3: The upper limb. In KE Stull & HM Garvin (Eds.). *A visual atlas of skeletal growth and development*. Oxfordshire, UK: Taylor & Francis.

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/. DOI: 10.5281/zenodo.7272165

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 Macromorphoscopics. DOI: 10.5281/zenodo.6784514

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. DOI: 10.5281/zenodo.6625998

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. DOI: 10.5281/zenodo.5768570

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. DOI: 10.5281/zenodo.5768557

PROFESSIONAL EXPERIENCE

Organized Symposia

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

Oral Presentations

2026 Glenwinkel, MA & **Chu, EY**. "Quantification of pelvic variation with respect to sex and population in modern Japanese, American Hispanic, and American White samples." Annual Meeting of the American Association of Biological Anthropologists. Denver, CO. March 19.

2025 Smith, HL, Younie, A, **Chu, EY**, Combs, E, Graf, K, & Goebel, T. "Examining variation in Chindadn point shape using Elliptical Fourier Analysis." Annual Meeting of the Alaska Anthropological Association. March 13.

Chu, EY, & Treviño, AJ. "Evaluating subadult age estimation methods from long bones using a contemporary Japanese sample." 77th Annual American Academy of Forensic Sciences Meeting. Baltimore, MD. February 21.

New, BT, Auchter, LE, **Chu, EY**, Corron, LK, Go, MC, Hefner, JT, Spradley, MK, Wolfe, CA, & Stull, KE. "Patterns of covariation in cranial metric and macromorphoscopic variables." 77th Annual American Academy of Forensic Sciences Meeting. Baltimore, MD. February 21.

2024 **Chu, EY**, Sylvester, AD, Zbijewski, WB, Shi, G, Meckel, LA, Cunningham, DL, & Wescott, DJ. "Adult body mass estimation using femur cross-sectional properties." 93rd Annual Meeting of the American Association of Biological Anthropologists. Los Angeles, CA. March.

Wescott, DJ, **Chu, EY**, Sylvester, AD, Zbijewski, WB, Shi, G, Meckel, LA, & Cunningham, DL. "Macroscopic differences in adult human femora are linked to body mass index." 76th Annual American Academy of Forensic Sciences Meeting. Denver, CO. February 22.

2023 Stull, KE & **Chu, EY**. "The Subadult Virtual Anthropology Database and KidStats: Improving the subadult biological profile." 2023 Interforensics Conference. Brasilia, Brasil.

Chu, EY & Stull, KE. "Nonlinear modeling of long bone ontogeny to investigate final adult size." 92nd 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." 92nd Annual Meeting of the American Association of Biological Anthropologists. Reno, NV. April 20.

Chu, EY & Stull, KE. "Expanding the Scope of Subadult Stature Estimation." 75th 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." 75th 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." 75th 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." 91st 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)." 91st 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." 91st 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." 74th Annual American Academy of Forensic Sciences Meeting. Seattle, WA. February 24.

Chu, EY, Yukyi, N, & Go, MC. "Homework for Modern Forensic Anthropologists." 74th 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." 74th 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." 74th 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." 74th 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." 73rd 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." 72nd 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." 70th Annual American Academy of Forensic Sciences Meeting, Seattle, WA. February 23.

Poster Presentations

2026 Krolczyk, R, **Chu, EY**, & Wescot, DJ. "Sex and age specific differences in the postmortem fracturing of maxillary anterior human dentition." Annual Meeting of the American Association of Biological Anthropologists. Denver, CO. March 21.

Chu, EY, Jenkins, TA, Glenwinkel, MA. "A comparative study of American versus Japanese skeletal growth and development." Annual Meeting of the American Association of Biological Anthropologists. Denver, CO. March 20.

Stull, KE, New, BT, Wolfe, CA, Auchter, LE, Cole, SJ, **Chu, EY**, … & Corron, LK. "The impact of an ontogenetic framework to biological and forensic anthropology theories and methods." Annual Meeting of the American Association of Biological Anthropologists. Denver Co. March 20.

Nachmias, NS, Spradley, MK, & **Chu, EY**. "Embedded in the bone: Investigation of marginalization through the structural vulnerability profile." Annual Meeting of the American Association of Biological Anthropologists. Denver, CO. March 19.

Glenwinkel, MA, **Chu, EY**, Lin, S-Y, Widjaya, MA, Chen, H-L, & Kuo, C-C. "A validation of the CADOES method on a Taiwanese sample." 78th Annual American Academy of Forensic Sciences Meeting. New Orleans, LA. February 12.

Stowe, RS, Spradley, MK, Herrmann, NP, & **Chu, EY**. "Exploring cranial morphological variation within Operation Identification cases using 3D surface geometric morphometrics." 78th Annual American Academy of Forensic Sciences Meeting. New Orleans, LA. February 11.

Nachmias, NS, Spradley, MK, **Chu, EY**, & Hamilton, MD. "Embedded in the bones: An investigation of marginalization through the structural vulnerability profile." 78th Annual American Academy of Forensic Sciences Meeting. New Orleans, LA. February 11.

2025 Dunham, CN, Sylvester, AD, & **Chu, EY**. "The utility of low-resolution imaging in the assessment of a decedent's activity level." 77th Annual American Academy of Forensic Sciences Meeting. Baltimore, MD. *Not presented*.

Treviño, AJ & **Chu, EY**. "Assessing the applicability of subadult stature estimation methods for Japanese subadults" 77th Annual American Academy of Forensic Sciences Meeting. Baltimore, MD. February 20.

2024 Cunningham, DL, Wescott, DJ, Sylvester, AD, Zbijewski, WB, **Chu, EY**, Baker, SA, De Cree, TM, & Dunham, CN. "Differences in adult human femoral external shape and cortical and trabecular bone structure associated with body mass index." 93rd Annual Meeting of the American Association of Biological Anthropologists. Los Angeles, CA. March.

2023 Broehl, KA, Corron, LK, **Chu, EY**, Pilloud, MA, Stull, KE. "Odontometric sexual dimorphism in a U.S. subadult sample." 92nd 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." 75th 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." 91st Meeting of the American Association of Biological Anthropologists, Denver, CO.

2021 **Chu, EY** & Stull, KE. "A Proposed Method for Studying Allometric Relationships without Stature." 90th 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." 90th 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." 90th 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." 89th 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." 89th 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." 89th 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." 72nd Annual American Academy of Forensic Sciences Meeting, Anaheim, CA. February 19.

Passalacqua, NV, **Chu, EY**, and Pilloud, MA. "Salary, wage transparency, and forensic anthropology." 72nd 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." 88th 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.

Service

2026 Board Member, Forensic Anthropology Center at Texas State, Texas State University

Reviewer, Humans (1 manuscript)

Reviewer, International Journal of Legal Medicine (2 manuscripts)

Reviewer, Forensic Science (1 manuscript)

Reviewer, Forensic Anthropology Journal (2 manuscripts)

Reviewer, Egyptian Journal of Forensic Sciences (1 manuscript)

Moderator, 78th Annual American Academy of Forensic Sciences Conference

2025 Board Member, Forensic Anthropology Center at Texas State, Texas State University

Reviewer, American Journal of Biological Anthropology (2 manuscripts)

Reviewer, Forensic Anthropology Journal (1 manuscript)

Session Chair, 94th Annual American Association of Biological Anthropologists Meeting

Member, Workload Committee, Department of Anthropology, Texas State University

Member, Search Committee for Tenure Track position in Historical Archaeology, Department of Anthropology, Texas State University

2024 Board Member, Forensic Anthropology Center at Texas State, Texas State University

Reviewer, Forensic Anthropology Journal (2 manuscripts)

Reviewer, American Journal of Biological Anthropology (1 manuscript)

Member, Workload Committee, Department of Anthropology, Texas State University

Member, Search Committee for Tenure Track position in Historical Archaeology, Department of Anthropology, Texas State University

Member, Master's Thesis Scholarship Committee, Department of Anthropology, Texas State University

Member, Ad-hoc Committee for the 20th Anniversary of the Master's program in the Department of Anthropology, Texas State University

Invited Panelist, Graduate Student Research Conference, The Graduate College, Texas State University

2023 Board Member, Forensic Anthropology Center at Texas State, Texas State University

Reviewer, Forensic Anthropology Journal (1 manuscript)

Reviewer, American Journal of Biological Anthropology (1 manuscript)

Member, Ad-hoc Committee for the 20th Anniversary of the Master's program in the Department of Anthropology, Texas State University

Member, Ad-hoc Committee on Membership, Anthropology Section, American Academy of Forensic Sciences

Invited Panelist, Imposter Syndrome Panel, Biological Anthropology Band in collaboration with Plant Biology Society, Texas State University

2022 Member, Ad-hoc Committee on Membership, Anthropology Section, American Academy of Forensic Sciences

Moderator, 74th Annual American Academy of Forensic Sciences Conference

Teaching

Summer 2026	Instructor, Workshop: Introduction to R and RStudio, Forensic Anthropology Center at Texas State, Texas State University
Spring 2026	Instructor: Applied Multivariate Statistics (ANTH 5737Q), Texas State University
	Instructor: Advanced Statistics and Computational Programming (ANTH 7385), Texas State University
Fall 2025	Instructor: Introduction to Biological Anthropology (ANTH 2301), Texas State University
	Instructor: Applied Multivariate Statistics (ANTH 5373Q), Texas State University
Spring 2025	Instructor: Applied Statistics Using R (ANTH 7301J), Texas State University
	Instructor: Applied Statistics (ANTH 3367), Texas State University
Fall 2024	Instructor: Introduction to Biological Anthropology (ANTH 2301), Texas State University

Summer 2024	Instructor, Workshop: Applied Biostatistics Using R, Forensic Anthropology Center at Texas State, Texas State University
Spring 2024	Instructor: Applied Statistics Using R (ANTH 7301J), Texas State University
Summer 2023	Instructor, Workshop: Applied Biostatistics Using R, Forensic Anthropology Center at Texas State, Texas State University
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"

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, 88th 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

DOCTORAL DISSERTATIONS ADVISED

In progress — Tiara Jenkins. *Advanced Methods & Ethical Considerations for the Identification and Repatriation of UMMC Asylum Hill.* Texas State University

DOCTORAL DISSERTATION COMMITTEE MEMBER

2025 — Raymond Vagell. *Mind Games: Using Cognitive Touchscreen to Reduce Boredom and Increase Welfare in Captive Ruffed Lemurs (Varecia Spp.)*. Texas State University

In progress — Jacob Lozano. *Clay in Comat: Crafting Fragile Alliances during Wartime Pressure.* Texas State University

Anna Maier. *A Quantitative Approach using Fourier Transform Infrared Spectroscopy (FTIR) Enhancing Age-at-Death Estimation in Skeletal Remains.* Texas State University

Stephanie Baker. *A Depp Learning Approach to Estimate the Postmortem Interval.* Texas State University

Nathan Nguyen. *Pelvic Morphological Variation and Sex-Related Differences within the Texas State Donated Skeletal Collection.* Texas State University

Lace Lively. *The Hidden Variable: Understanding the Effects of Short-term Social Separations on the Psychology and Physiology of Laboratory-housed Rhesus Macaques (Macaca mulatta).* Texas State University

Bianca Scheung-Zancala. *Investigating Brazilian Migration History Through Cranial Variation Using Geometric Morphometrics.* Texas State University

Krysten Cruz. Texas State University

Keegan Beane. *Cranial and Postcranial Projectile Trauma Patterns in Clinical Homicide and Mass Grave Scenarios.* Texas State University

Eliana Gutierrez. Texas State University

MASTERS THESES ADVISED

In progress Madison Glenwinkel. *Investigating Pelvic Sexual Dimorphism in Japanese, American Hispanic, and American White Samples.* Texas State University

Lauren Keith. *Testing the Utility of Cranial Arc and Angle Measurements in Estimating Sex and Population Affinity.* Texas State University

Mackenzie Murray. *Linear Morphometric Analysis of the Scapula and the Impact of Population Affinity on Sexual Dimorphism.* Texas State University

2026 Navit Nachmias. *Embedded in the Bones: Investigation of Marginalization Through the Structural Vulnerability Profile*. Texas State University (Co-chair)

Daniela Martinez Herrera. *Challenges of Postmortem Fingerprinting in Eagle Pass, Texas*. Texas State University (Co-chair)

MASTERS THESIS COMMITTEE MEMBER

2026 Bec Krolczyk. *Investigating the Impact of Sun Exposure, Heat, and Humidity on Postmortem Dental Crack Propagation in Human Dentition.* Texas State University

Chloe Cummings. *Virtual Forensic Anthropology: An Assessment of the FARO Freestyle 2 Handheld Scanner on the Estimation of the Biological Profile.* George Mason University

Harper Powell. *Differences in Cortical Bone Mapping Metrics Between Moderate and Obese Individuals in the Tibial Plateau*. Texas State University

2025 Amariah J. Treviño. *Differential Decomposition: The Effect of Summer and Winter Clothing on Shallow Buried Human Remains in Central Texas.* Texas State University

Rebekah Stowe. *Cranial Variation within Operation Identification using a Geometric Morphometric Approach.* Texas State University

Hannah Stottlemeyer. *Evaluating Spinal Degeneration and Pathologies for Age Estimation in Forensic Anthropology.* Texas State University

Lindsay Carnahan. *Methods for Identifying Obesity by Examining the Morphology and Pathology of the Tibia*. Texas State University.

2024 Nathan Nguyen. *An Exploration of Fracture Healing Morphology and Assessment Methodology within the Texas State Donated Skeletal Collection.* Texas State University

In progress Maiya Higa-Okohira. *Scattering Scat: Seed Dispersal in Black-Handed Spider Monkeys (Ateles geoffroyi) and Mantled Howler Monkeys (Alouatta palliata) in the Northeastern Region of Costa Rica.* Texas State University

UNDERGRADAUTE HONORS THESES ADVISED

2026 Emily Owen. *Know Your Bones? An Illustrated Guide to Siding Bones like a Forensic Anthropologist.* Texas State University.

2025 Maria Castro Duomolin. *Comparison of KidStats: Stature and FORDISC3.1 for Subadult Stature Estimation.* Texas State University

UNDERGRADUATE INTERNSHIPS ADVISED

2026 Emily Owen. "Ongoing Investigation of the Growth and Development of Long Bones." Texas State University

Rosa Gutierrez. "Ongoing Investigation of the Growth and Development of Long Bones." Texas State University

2025 Constance Dubowik. "Segmentation of the Appendicular Skeleton from Computed Tomography Scans." Texas State University

2024 Alyssa Estupinan. "A Graphical User Interface in R for Subadult Skeletal Data Collection." Texas State University

2023 Harper Powell. "Segmentation, Measurement, and Scoring of Subadult Scapulae and Clavicles." Texas State University

PROFESSIONAL AFFILIATIONS

American Academy of Forensic Science – *Associate Member (since 2025), Trainee Affiliate (2023-2024), Student Affiliate (2017-2023)*

American Association of Physical Anthropology – *Member (since 2024), Student Member(since 2017)*

LAB & FIELD EXPERIENCE

August 2024 Maverick County Disaster Victim Identification Initiative, Operation Identification, Texas State University, **Directors:** Kate Spradley, PhD, Victoria Swenson

- Fingerprint identification and DNA sample collection of 18 unidentified individuals found in Maverick County

November 2024 Austin Police Department Search and Recovery, Texas State University

- One (1) forensic archaeological search with graduate students
- One (1) forensic archaeological recovery with graduate students resulting in a homicide conviction

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 Sherriff'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

2024 Tour Guide, Forensic Anthropology Center at Texas State

- Provided a tour of the Forensic Anthropology Research Facility and Grady Early Forensic Anthropology Laboratory to a group from the Austin Police Department and German Police Force

2022 Invited Guest, Forensic Anthropology Companion Podcast, Episode 16

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

SKILLS & SOFTWARE

Machine Learning
Functional Programming
Microsoft Office Suite
Dental & Medical Radiographic Comparison
Biodistance Analyses
Object Oriented Programing
MATLAB
Amira, Aviso, 3D Slicer