

AN-DI YIM

Health & Exercise Sciences
Truman State University
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AREA OF INTEREST

Growth and development, Quantitative genetics, Genotype-phenotype associations
Virtual anthropology, Statistical methods, Forensic anthropology

ACADEMIC APPOINTMENTS

Assistant Professor of Anatomy August 2021 - Present
Department of Health and Exercise Sciences, Truman State University, MO, USA
Department of Biology, Truman State University, MO, USA

Anatomy Teaching Fellow May 2021 - August 2021
Congdon School of Health Sciences, High Point University, NC, USA

EDUCATION

University of Illinois at Urbana-Champaign, IL, USA August 2016 - May 2021
Ph.D.

Department of Anthropology
Graduate Minor in Statistics January 2020

New York University, NY, USA September 2014 - August 2016
Master of Arts
Physical Anthropology - Human Skeletal Biology Track
THESIS - Evolution of Genotype and Phenotype of Skeletal Strength in Primates

National Taiwan University, Taiwan September 2008 - June 2013
Master of Science
Department and Graduate Institute of Forensic Medicine
THESIS - Developing Linked STR Markers as A Complementary Tool in Kinship Analysis

National Cheng-Kung University, Taiwan September 2004 - June 2008
Bachelor of Science
Department of Medical Laboratory Science and Biotechnology

TEACHING APPOINTMENTS

Assistant Professor August 2021 - Present
 Department of Health and Exercise Sciences, Truman State University, MO, USA
 Department of Biology, Truman State University, MO, USA

- Courses taught: Human Anatomy, Human Anatomy Lab, Foundations of Anatomy and Physiology, Foundations of Genetics.
- Serve as course director for Human Anatomy and Human Anatomy Lab, organizing and coordinating course content, work collaboratively with other instructors to optimize teaching strategies.
- Conduct prosection and mentor undergraduate teaching assistants.
- Design interactive lectures and creative assignments to optimize student learning.

Anatomy Teaching Fellow May 2021 - August 2021
 Congdon School of Health Sciences, High Point University, NC, USA

- Assisted PA/AT Human Gross Anatomy lecture and laboratory instruction.
- Performed prosection to demonstrate anatomical structure for students.

Teaching Assistant August 2016 - May 2021
 Department of Anthropology, University of Illinois at Urbana-Champaign, IL, USA
 School of Molecular and Cellular Biology, University of Illinois at Urbana-Champaign, IL, USA

- Prepared lectures and designed activities for laboratory/discussion sections.
- Created homework assignments and exams questions that reflects students' levels of knowledge to the course materials.
- Led student group projects by providing assistance, feedback and grading.
- Courses assisted: Biological Anthropology, Forensic Anthropology, Human Osteology, Introduction to Anthropology, Forensic Science, Human Anatomy and Physiology I and II.

Instructor June 2019 - May 2021
 Department of Anthropology, University of Illinois at Urbana-Champaign, IL, USA

- Incorporated multimedia content into the existing course to enhance student engagement.
- Designed new course materials and online activities to facilitate student participation.
- Courses taught: Biology of Human Behavior, Forensic Science.

Training Staff January - February 2016
 EPAF Field School in Hargeisa, EPAF (Peruvian Forensic Anthropology Team), Hargeisa, Somaliland

- Supervisor: Mr. Jose Pablo Baraybar.
- Taught local students and field school participants on forensic anthropology laboratory methods.
- Wrote forensic anthropology reports. Used forensic photography to document skeletal trauma, biological profile indicators and physical evidence.

RESEARCH APPOINTMENTS

Research Affiliate September 2022 - Present
Department of Anthropology, University of Illinois at Urbana-Champaign, IL, USA

- Collaborate with Dr. Cris Hughes to conduct research on forensic anthropology methods usage and accuracy.
- Conduct research on disparity in forensic anthropology casework, forensic identification, and medicolegal system.

Research Assistant January 2019 - July 2020
Department of Anthropology, University of Illinois at Urbana-Champaign, IL, USA

- National Institute of Justice Award 2018-DU-BX-0213. PI: Dr. Cris Hughes, Co-PI: Dr. Chelsey Juarez.
- Conducted extensive literature review of existing forensic anthropology methods.
- Performed testing of the database, assisted in designing forms, guidelines, and user manual. Contributed to web design using Markdown.
- Created various training materials, including an online wiki, video tutorials and powerpoint slides.
- Facilitate data collection by communicating and working with forensic anthropologists in different institutions.

Visiting Researcher May 2019 - July 2019
Department of Cell Biology and Anatomy, University of Calgary, Canada

- Supervisor: Dr. Benedikt Hallgrímsson.
- Performed QTL analysis of DO mice that incorporates 3D shape data, linear measurements, and mass of different body elements.
- Designed a linear mixed model on the growth trajectories of human limb skeletons.

PROFESSIONAL EXPERIENCE

Forensic Anthropology Consultant 2016 - Present
Various prosecutors offices and law enforcement agencies, Taiwan
Champaign County Coroner, IL, USA

- Assisted/consulted on over 30 forensic anthropology cases.
- Analyses performed: forensic significance, biological profile estimation, trauma analysis.

Visiting Scholar July 2022
Washburn University Forensic Anthropology Recovery Unit, Washburn University, KS, USA

- Conducted forensic anthropology casework under the guidance of Dr. Alexandra Klales.

Intern - Forensic Anthropology Internship Program September 2015 - May 2016
Office of Chief Medical Examiner - The City of New York, NY, USA

- Supervisor: Dr. Bradley Adams.
- Performed research on dismemberment patterns in New York City by conducting case review.
- Created a new system for documenting the internal chain of custody.
- Helped organized outdoor recovery training workshops for law enforcement agencies.

Intern January - May 2015

Molecular Anthropology Laboratory, New York University, NY, USA

- Supervisor: Dr. Todd Disotell.
- Performed DNA extraction, PCR analysis and STR analysis.
- Designed and tested protocols for faunal tooth DNA extraction.

Volunteer March - April 2015

EPAF Field School in Hargeisa, EPAF (Peruvian Forensic Anthropology Team), Hargeisa, Somaliland

- Supervisor: Mr. Jose Pablo Baraybar.
- Performed forensic anthropology laboratory analysis and contributed to report writing.
- Participated in the excavation of mass graves.

Medical Laboratory Scientist - Toxicology Analysis December 2013 - August 2014

Tri-Service General Hospital, Taiwan

- Part of the compulsory military service as an Army Reserve Officer (Rank: Second Lieutenant).
- Performed toxicology screening of clinical samples using immunoassay.

Part-time Research Assistant May 2009 - May 2013

Molecular Psychiatry Laboratory, National Taiwan University Hospital, Taiwan

- Performed DNA extraction of blood samples from several clinical studies.
- Assisted in data entry, determination of DNA concentration and various laboratory tasks.

Intern July - August 2012

Forensic Pathology Division, Institute of Forensic Medicine, Ministry of Justice, Taiwan

Forensic Medical Examiner Office, Taipei District Prosecutors Office, Taiwan

- Participated in autopsies of real forensic cases, follow-up with mock reports writing and microscopic pathology examination.
- Assisted and performed external examination of bodies.

PUBLICATIONS

Yim AD, Cowgill L, Katz DC, Roseman CC. (*Submitted*) Variation in ontogenetic trajectories of limb dimensions in humans is attributable to both climatic effects and neutral evolution, *Journal of Human Evolution*

Winburn AP, Yim AD, Stock MK. (2022) Recentering forensic anthropology within a multifaceted body of evolutionary theory: Strengthening method by making theory explicit, *American Journal of Biological Anthropology*, 179, 535-551

Yim AD, Juarez JK, Goliath JR, Melhado IS. (2022) Diversity in forensic science: Black, Indigenous, and People of Color (BIPOC) representation in different medicolegal fields in the United States, *Forensic Science International: Synergy*, 5, 100280

Hughes CE, Juarez CA, Yim AD. (2021) Forensic Anthropology Casework Performance: Assessing Accuracy and Trends for Biological Profile Estimates on a Comprehensive Sample of Identified Decedent Cases, *Journal of Forensic Sciences*, 66, 1602-1616

Yim AD, Konigsberg LW, Hwa HL, Chang CC, Chen JY, Liu HM. (2021) Allometric scaling and growth: evaluation and applications in subadult body mass estimation, *American Journal of Physical Anthropology*, 175, 577-588

Juarez CA, Hughes CE, Yim AD. (2021) A Report on the Forensic Anthropology Database for Assessing Methods Accuracy, *American Journal of Physical Anthropology*, 174, 149-150

Adams BJ, Rainwater CW, Yim AD, Alesbury H. (2019) A Retrospective Study of Intentional Body Dismemberment in New York City: 1996-2017, *Journal of Forensic Sciences*, 64, 1012-1016

Yim AD, Yu YJ, Lee CI. (2014) Establishing a System of 13 New STRs Linked with Core STR loci for Kinship Analysis, *The Taiwan Journal of Forensic Medicine*, 6, 56-71

CONFERENCE PAPERS

Juarez CA, Hughes CE, Yim AD. Data on methods usage in forensic anthropology casework from 1972-2022 using the forensic anthropology database for assessing methods accuracy (FADAMA), AAFS 2023 Annual Scientific Conference, February 2023

Yim AD, Stock MK, Winburn AP. Investigating forensic anthropologists' training and understanding of evolutionary theory, AAFS 2023 Annual Scientific Conference, February 2023

Yim AD, Cowgill L, Katz DC, Roseman CC. Variation in ontogenetic trajectories of limb dimensions is attributable to both climatic effects and neutral evolution, 91st Annual Meeting of American Association of Biological Anthropologists, March 2022

Juarez CA, Hughes CE, Yim AD. The current status of methods usage in forensic anthropology casework using the Forensic Anthropology Database for Assessing Methods Accuracy (FADAMA), 91st Annual Meeting of American Association of Biological Anthropologists, March 2022

Yim AD, Juarez JK, Goliath JR, Melhado IS. Drawing parallels: Black, Indigenous, and People of Color (BIPOC) representation in other medicolegal fields, AAFS 2022 Annual Scientific Conference, February 2022

Yukyi N, Yim AD, Go MC, Robledo I. The (Colonial) impacts of (Western) forensic anthropology in the international sphere, AAFS 2022 Annual Scientific Conference, February 2022

Go MC, Chu EY, Yukyi N, Yim AD, ..., Robledo I. Pioneers of color: Diversifying the pantheon of forensic anthropology luminaries, AAFS 2022 Annual Scientific Conference, February 2022

Yim AD, Corron L, Stull KE. A new tool for medical image processing in biological anthropology and anatomy research, Experimental Biology 2021, April 2021

Yim AD, Roseman CC. Changing patterns of variability in human lower limb skeleton during growth and the implications for human evolution, 90th Annual Meeting of American Association of Biological Anthropologists, April 2021

Sgheiza V*, Yim AD*. Reference sample optimization for juvenile age estimation from diaphyseal length, AAFS 73rd Annual Scientific Meeting, February 2021

Hughes CE, Juarez CA, Yim AD. Forensic anthropology casework performance: assessing accuracy and trends for biological profile estimates on a comprehensive sample of identified decedent cases, AAFS 73rd Annual Scientific Meeting, February 2021

Yim AD, Cowgill L, Katz DC, Roseman CC. Climate predicts changes in growth trajectories in modern humans: a mixed model approach, 89th Annual Meeting of American Association of Biological Anthropologists, April 2020

Yim AD, Konigsberg LW, Hwa HL, Chen JY, Liu HM. Subadult body mass estimation from skeletal remains: validation for femoral cross section methods in a contemporary Taiwanese population, AAFS 72nd Annual Scientific Meeting, February 2020

Yim AD, Stull KE, Hwa HL, Liu HM. Subadult age estimation of Taiwanese populations using long bone dimensions from radiographs, 87th Annual Meeting of American Association of Biological Anthropologists, April 2018

Adams BJ, Rainwater CW, Yim AD, Alesbury H. A Retrospective Study of Intentional Body Dismemberment in New York City: 1996-2016, AAFS 70th Annual Scientific Meeting, February 2018

Yim AD, Williams SA, Disotell TR. Adaptive Evolution of TCIRG1: A Gene Involved in Bone Development and Remodeling, 86th Annual Meeting of American Association of Biological Anthropologists, April 2017

DeCasien AR, Yim AD. Megalencephaly and Macrocephaly Genes are Associated with Comparative Variation in Primate Brain Size, 86th Annual Meeting of American Association of Biological Anthropologists, April 2017

Wu CH, Lin CY, Liao KH, Yim AD, Yu YJ, Lee CI. Analysis of 15 STR loci in Taiwanese Han population using Investigator HDplex and Investigator IDplex, 2013 Conference on Forensic Science, Taiwan Academy of Forensic Sciences, September 2013

Yim AD, Lin CY, Yu YJ, Lee CI. Developing Linked STR Markers as A Complementary Tool in Kinship Analysis, 2012 Conference on Forensic Science, Taiwan Academy of Forensic Sciences, September 2012

AWARDS AND GRANTS

- 2022 - Present - NAGPRA Consultation/Documentation Grant (subaward) (\$ 38,444)
Natioanl Park Service
- 2022 - AAA Short-term Visiting Scholarship (\$ 1,000)
American Association for Anatomy
- 2022 - Course Hero Teaching Grant (\$ 2,000)
Course Hero
- 2022 - Universal Design for Learning Course Redesign Award (\$ 500)
Academic Affairs, Truman State University
- 2021 - Present - FSF Kenneth S. Field Grant (\$ 1,000)
Forensic Sciences Foundation
- 2018, 2021 (Spring) - List of Teachers Ranked Excellent
University of Illinois at Urbana-Champaign
- 2021 - Demitri B. Shimkin Graduate Student Paper Award
Department of Anthropology, University of Illinois at Urbana-Champaign
- 2021 - Conference Presentation Award
Graduate College, University of Illinois at Urbana-Champaign
- 2018, 2021 - Pollitzer Student Travel Award
American Association of Biological Anthropologists
- 2021 -AAA Student Registration Award
American Association for Anatomy
- 2021 - SSE Membership Award
Society for the Study of Evolution
- 2021 - Anthropology Section Diversity and Inclusion Award
American Academy of Forensic Sciences

- 2020 - 2022 - Doctoral Dissertation Research Improvement Grant (\$ 11,687)
National Science Foundation
- 2019 - 2021 - Dissertation Fieldwork Grant (\$ 9,335)
Wenner-Gren Foundation for Anthropological Research
- 2017, 2018, 2020 - Conference Travel Fund (\$ 250 each)
Department of Anthropology, University of Illinois at Urbana-Champaign
- 2019 - Dissertation Travel Grant (\$ 3,931)
Graduate College, University of Illinois at Urbana-Champaign
- 2017 - Summer Research Assistance Award (\$ 3,000)
Department of Anthropology, University of Illinois at Urbana-Champaign
- 2016 - Meeting Travel Fund (\$ 250)
Masters Program in Physical Anthropology, New York University

SKILLS

Language

- Japanese: Japanese-Language Proficiency Test Level N3 (limited working fluency)
- Mandarin Chinese: native fluency

Computer program

Amira, Mr. Bayes, Bayes Traits, HyPhy, Arlequin, LINKAGE, Word, Excel, Powerpoint, FORDISC

Programming language

R, LaTeX, Markdown, SQL, Unix Shell

CERTIFICATES, LICENSURE, MEMBERSHIPS

Graduate Teacher Certificate, University of Illinois at Urbana-Champaign
Associate Member, American Academy of Forensic Sciences
Member, American Association of Biological Anthropologists
Member, American Association for Anatomy
Member, Society for the Study of Evolution
Member, Taiwan Society of Forensic Medicine
License of Forensic Medical Examiner in Taiwan
License of Medical Laboratory Scientist in Taiwan

GUEST LECTURES AND INVITED TALKS

At Truman State University:

- September 2022 - (JUST 281) Introduction to Forensic Science - Topic: Introduction to Death Investigation and Forensic Anthropology

At High Point University:

- July 2021 - (PAS 5101) Gross Anatomy - Topic: Head and Neck Organization, Triangles of the Neck

At University of Illinois at Urbana-Champaign:

- April 2021 - (ANTH 240) Biological Anthropology - Topic: Introduction to Forensic Anthropology and Human Rights Investigation
- May 2019 - (ANTH 101) Introduction to Anthropology - Topic: Forces of Evolution
- May 2019 - (ANTH 101) Introduction to Anthropology - Topic: Introduction to Anthropology, History of Evolutionary Thoughts
- April 2019 - (ANTH 240) Biological Anthropology - Topic: Introduction to Forensic Anthropology and Human Rights Investigation
- November 2017 - (ANTH 241) Human Variation - Topic: Multiple Quantitative Traits and Evolution of Quantitative Traits
- November 2017 - (ANTH 241) Human Variation - Topic: Anthropometric Variation: Measures

At University of Calgary

- June 2019 - (Invited Talk) Ontogeny, Evolution, and Ecogeographic Patterns of Human Limb Morphology

At Brooklyn College:

- November 2015 - (CORC 3307) Forensic Science - Topic: Forensic DNA Typing

SERVICE AND OUTREACH

Service to institution

- *Faculty Advisor* 2022 - Present
Pre-Physician Assistant Club, Pre-OT/PT Club (Truman State University)
- *Member* 2022
Virtual Anatomy Planning Committee (Truman State University)

Service to discipline

- *Reviewer* 2022 - Present
American Journal of Biological Anthropology, Human Biology, Forensic Anthropology
- *AABA Committee on Diversity International* 2021 - Present
American Association of Biological Anthropologists
- *Scientific Session Moderator* 2022 - Present
American Academy of Forensic Sciences annual scientific conference
- *Scientific Session Chair* 2021 - Present
American Association of Biological Anthropologists annual meeting
- *Ad hoc committee on Awards* 2021 - Present
American Academy of Forensic Sciences, Anthropology Section
- *AABA Auction Committee* 2016 - 2019
American Association of Biological Anthropologists annual meeting
- *Decolonizing Anthropology Seminar Graduate Student Panelist* April 2021
Department of Anthropology, University of Illinois at Urbana-Champaign
- *Social Media Representative* April 2016
American Association of Biological Anthropologists annual meeting

Outreach

- *Anatomy Instructor* June 2022
2022 ATSU-Truman Healthcare Academy
- *Presenter* March 2022
Topic: Evolutionary population genetic approaches to study human skeletal variation
Anthropology Club, Truman State University
- *Presenter* July 2021
Topic: The development and current status of forensic anthropology in Taiwan
41st Annual Conference of North America Taiwanese Professors' Association
- *Anatomy Instructor* July 2021
2021 Governor's School of North Carolina West
- *Guest Speaker* May 2021
Topic: The role of forensic anthropology in medicolegal death investigation
2021 Symposium of Taiwanese Scholar Association in St. Louis

Media apperances

- "Forensic scientists are generally whiter, less diverse than US population they serve, study says" (USA Today) September 2022
- The Arch and Anth Podcast, Episode 119 April 2020
- People & Power, Somaliland: Kill All but the Crows (Al Jazeera English) June 2016