

## AN-DI YIM

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### AREA OF INTEREST

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

### EDUCATION

University of Illinois at Urbana-Champaign, IL, USA <i>PhD candidate</i> Department of Anthropology <i>Graduate Minor in Statistics</i>	August 2016 - May 2021 ( <i>Expected</i> )    January 2020
New York University, NY, USA <i>Master of Arts</i> Physical Anthropology - Human Skeletal Biology Track THESIS - Evolution of Genotype and Phenotype of Skeletal Strength in Primates	September 2014 - August 2016
National Taiwan University, Taiwan <i>Master of Science</i> Department and Graduate Institute of Forensic Medicine THESIS - Developing Linked STR Markers as A Complementary Tool in Kinship Analysis	September 2008 - June 2013
National Cheng-Kung University, Taiwan <i>Bachelor of Science</i> Department of Medical Laboratory Science and Biotechnology	September 2004 - June 2008

### RESEARCH EXPERIENCES

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

- Conducted extensive literature review of existing forensic anthropology methods for the Forensic Anthropology Database for Assessing Methods Accuracy (NIJ Award Number: 2018-DU-BX-0213).
- 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

- 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.

## TEACHING EXPERIENCES

*Teaching Assistant* August 2016 - Present  
 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 - Present  
 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

- 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.

## PROFESSIONAL EXPERIENCES

*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.

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

- 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

- 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

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

Yim AD, Roseman CC. (*Submitted*) Sampling Error Does Not Explain the Observed Dissimilarity between  $r_G$  and  $r_P$ , *Journal of Evolutionary Biology*

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(4), 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(1), 56-71

**CONFERENCE PAPERS**

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 Physical 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 Physical 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 Physical 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 Physical 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

\**Equal contribution*

**AWARDS AND GRANTS**

2021 - Anthropology Section Diversity and Inclusion Travel Award

American Academy of Forensic Sciences

2020 - *Present* - Doctoral Dissertation Research Improvement Grant (\$ 11687)

National Science Foundation

2019 - *Present* - Dissertation Fieldwork Grant (\$ 9335)

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 (\$ 3931)

Graduate College, University of Illinois at Urbana-Champaign

2018 (Spring) - List of Teachers Ranked Excellent

University of Illinois at Urbana-Champaign

2018 - Pollitzer Student Travel Award

American Association of Physical Anthropologists

2017 - Summer Research Assistance Award (\$ 3000)

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

Student Member, American Association of Physical Anthropologists

Student Affiliate, American Academy of Forensic Sciences

Student Member, American Association for Anatomy

Student Member, American Anthropological Association

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 University of Calgary

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

At University of Illinois at Urbana-Champaign:

- 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 Brooklyn College:

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

### **SERVICE AND OUTREACH**

*Service to discipline*

- *AAPA Auction Committee* 2016 - Present  
American Association of Physical Anthropologists annual meeting
- *Social Media Representative* April 2016  
American Association of Physical Anthropologists annual meeting

*Media apperances*

- The Arch and Anth Podcast, Episode 119 April 2020
- People & Power (Al Jazeera English), Somaliland: Kill All but the Crows June 2016