

CHI ZHANG

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EDUCATION

- PhD (Biological Anthropology)** April, 2020
University of Pittsburgh, Pittsburgh, PA
Academic advisor: Dr. Jeffrey Schwartz
Dissertation: A critical assessment of sampling biases in geometric morphometric analysis: the case of *Homo erectus*
- Bachelor of Science (Telecommunication Engineering)** May 2012
Nanjing University of Posts & Telecommunications, Nanjing, Jiangsu, China
- Bachelor of Science (Electrical and Computer Engineering)** May 2012
New York Institute of Technology, New York City, NY
*Joint Program with Nanjing University of Posts and Telecommunications

PROFESSIONAL EXPERIENCE

- Lab Assistant** Spring 2018
Physical Anthropology Lab, Department of Anthropology, University of Pittsburgh, Pittsburgh, PA
Duties: Created inventories for primate and hominid fossil casts; designed containers for these casts
- Teaching Assistant** Spring and Fall 2015; Fall 2016–Spring 2018
Department of Anthropology, University of Pittsburgh, Pittsburgh, PA
Human Origins (Senior seminar course ANTH 1603; Spring 2018)
Duties: Instructed students in writing anatomical descriptions of hominid fossils; prepared lab materials; assisted in leading seminars
- Introduction to Human Evolution (ANTH 0681; Spring 2015 and 2017, Fall 2017)
Duties: Led recitations (four recitations a week; 20 to 25 students/recitation), created and graded exams, and worked office hours
- Introduction to Physical Anthropology (ANTH 0680; Fall 2015 and 2016)
Duties: Led recitations (four recitations a week; 20 to 25 students/recitation), created and graded exams, and worked office hours
- Instructor/Teaching Fellow** Spring 2016
College of General Studies, University of Pittsburgh, Pittsburgh, PA
Introduction to Physical Anthropology (ANTH 0680)
Duties: Fully responsible for the course (class size: 34); created and led lectures, constructed and grade exams and quizzes, and worked office hours.

RESEARCH EXPERIENCE

PhD Dissertation

April 2017–April 2020

Department of Anthropology, University of Pittsburgh, Pittsburgh, PA

Project: A critical assessment of sampling biases in geometric morphometric analysis: The case of *Homo erectus*

Project description: Collected 3D anatomical landmarks and semilandmarks to quantify the morphological details of fossil *Homo erectus* and reexamine its taxonomic hypotheses; Examined factors such as how different landmark densities and sampling landmarks from different cranial regions influence statistical analyses

Graduate Student Researcher

Summer 2017

Department of Orofacial Biology, University of Pittsburgh, Pittsburgh, PA

Project: Soft tissue nasal asymmetry as an indicator of orofacial cleft predisposition

Supervisor: Dr. Seth Weinberg

Project description: geometric morphometric analysis for detecting excess nasal asymmetry that may act as risk factors of bearing cleft palate genes. The result is published in the *American Journal of Medical Genetics*.

PUBLICATIONS

Zhang, C. (2020).

The effect of Procrustes superimposition on the quantification of hominin cranial morphology (**conference abstract**). *American Journal of Physical Anthropology*, 171(S69), 318.

Zhang, C., Miller, S. F., Roosenboom, J., Wehby, G. L., Moreno Uribe, L. M., Hecht, J. T., ... & Weinberg, S. M. (corresponding author) (2018).

Soft tissue nasal asymmetry as an indicator of orofacial cleft predisposition. *American Journal of Medical Genetics Part A*, 176(6), 1296-1303.

Schwartz, J. H., Tattersall, I., & **Zhang, C.** (2014).

Comment on "A complete skull from Dmanisi, Georgia, and the evolutionary biology of early *Homo*", *Science*, 344(6182), 360.

POSTER PRESENTATIONS

Zhang, C. (April 17, 2020, online presentation)

The effect of Procrustes superimposition on the quantification of hominin cranial morphology. The 89th Annual meeting of the American Association of Physical Anthropologists, April 15-18, 2020, Los Angeles, CA. (Link: <https://meeting.physanth.org/program/2020/session29/zhang-2020-the-effect-of-procrustes-superimposition-on-the-quantification-of-hominin-cranial-morphology.html>)

Zhang, C. (presenter), Miller, S. F., Roosenboom, J., Wehby, G. L., Moreno Uribe, L. M., Hecht, J. T., ... & Weinberg, S. M. (Apr. 11, 2018).

Nasal Asymmetry as a potential risk marker for non-syndromic cleft lip with or without palate. American Cleft Palate-Craniofacial Association Annual Meeting, April 10-14, 2017, Pittsburgh, PA.

Zhang, C. (presenter), Miller, S. F., Roosenboom, J., Marazita, M., Weinberg, S. M. (Nov. 4, 2017).

Nasal Asymmetry as a potential risk marker for non-syndromic cleft lip with or without palate. American Association of Anatomists Regional Meeting, November 4, 2017, Pittsburgh, PA.

FIELDWORK EXPERIENCE

Archaeological Site of Atapuerca July 2014
Atapuerca Project, Museo de la Evolución Humana, Burgos, Juan de Castilla y Leon, Spain
Duties: Participated in excavation and data recording at the cave site El portalón

Dmanisi Paleoanthropology Field School July–August 2013
Dmanisi Field School, Georgia National Museum, Republic of Georgia
Duties: Participated in excavation and data recording

VOLUNTEERING

Website Maintenance Volunteer Fall 2013–Spring 2015
University of Pittsburgh, Pittsburgh, PA
Duties: Responsible for maintaining the website of the Department of Anthropology

Laboratory Demonstrator Spring 2013
University of Pittsburgh, Pittsburgh, PA
Duties: Demonstrated the Physical Anthropology Lab to local participants of the Allegheny Intermediate Unit Program

SCHOLARSHIPS

China Studies Full Tuition Remission Scholarship Fall 2013–Spring 2015
Asian Studies Center, University of Pittsburgh

Partial Tuition Remission Scholarship Spring 2013
Asian Studies Center, University of Pittsburgh

TECHNICAL AND LANGUAGE SKILLS

Geometric morphometric analysis: Landmark Editor, MorphoJ, Morphometrika

Statistics: Principal component analysis, linear regression, ANOVA, among others

3D model scanning and processing: Artec Space 3D Industrial Scanners, Artec Studio, Geomagic Studio, Meshlab

Computer and programming skills: R, Python, Microsoft, PowerPoint, Excel, among others

Languages: English (full professional proficiency), Chinese (native language)