

Mauricio Hernandez

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Education

- 2010-2015 **University of Cambridge** – Cambridge, United Kingdom
Ph.D. in Biological Anthropology
Dissertation Title: An Assessment of Health as an Indicator of Socio-political Sustainability in the Earliest State-Level Societies of East Asia
- 2008-2010 **CUNY Hunter College** – New York, New York, USA
M.A. in Archaeology, *Magna Cum Laude*
Thesis Title: Changes in Nutritional and Occupational Stress Over Time: The Dietary Impact on Population Health During the Transition From Incipient to Intensive Agriculture in Northeast China
- 2000- 2004 **University of Florida** – Gainesville, Florida, USA
B.A. in Anthropology

Funding and Fellowships

- 2016 Association for Asian Studies China and Inner Asia Council Research Grant
- 2015 Lloyd B. Cotsen Post-doctoral Fellowship
Cotsen Institute of Archaeology Research Grant
Sigrid Rausing Scholarly Exchange Fund
- 2014 Cambridge Philosophical Society Travel Grant
- 2013 Cambridge Philosophical Society Research Studentship
Dorothy Garrod Memorial Trust Fund
HSS Foreign Language Learning Fund
William S. Pollitzer Student Travel Award
- 2012 Cambridge Overseas Trust Additional Fieldwork Funds
- 2011 Downing College Graduate Travel Grant
Parke Davies Studentship
Worts Traveling Scholar Fund
Ridgeway-Venn Travel Studentship
- 2010 CUNY Graduate Student Association Travel Grant
- 2009 Wieland Fund for Anthropological Fieldwork
- 2007 CUNY Travel Grant
- 2003 Dean's List – College of Arts and Sciences
- 2000-2004 Florida Bright Futures Merit Scholarship
- 2000 McDonald's Hispanic Scholarship Fund
Best Buy Dollars for Scholars Scholarship

Peer-reviewed Publications

Hernandez M, Hudson MJ. (2015) Diagnosis and evaluation of causative factors of endemic treponemal disease in a Japanese island population from the Tokugawa period. *International Journal of*

Paleopathology 10(C): 16-25.

Hernandez M, Zhu H, Chen L, Wei D, He J, Fang H, Han G, Chen Z, Ma, Z. (20XX) Social evolution in East Asia and its human toll: A diachronic analysis of non-elite nutritional stress within early Chinese states. *Current Anthropology* (submitted 9th November, 2015 – manusc.# CA-S-15-00340)

Hernandez M, Wei D, Li F-J, Zhu H. (20XX) Biomechanical comparison of routine activity patterns between two ancient Chinese populations with different subsistence practices. *American Journal of Physical Anthropology* (submitted 25th April, 2016 – manusc.# AJPA-2016-00141)

Hernandez M, Zhu H, Wei D. (20XX) A Eurasian Amazon on Horseback: Identification of an Iron Age Female Archer via Archaeological and Paleopathological Approaches. *Journal of Archaeological Science: Reports* (submitted 27th April, 2016 – manusc.# JASREP-D-16-00216)

Hernandez M, Dittmar J, Mao R, Wang H. (20XX) Ecology and activity shifts in the Hexi corridor: A diachronic assessment of mechanical stress at the Mogou cemetery, Lintan County, Gansu. In: Lintan Mogou Cemetery Osteological Research Papers (edited volume under preparation).

Hernandez M, Dittmar J, Mao R, Wang H. (20XX) Intercultural contact and subsistence change at the Mogou cemetery: A bioarchaeological assessment of nutritional stress in Bronze Age Gansu. In: Lintan Mogou Cemetery Osteological Research Papers (edited volume under preparation).

Other Publications

Hernandez M. (2015) Review: Bioarchaeology of East Asia – Movement, Contact, Health. *Anthropos* 110(1): 259-260.

Hernandez M. (2012) Review: A Companion to Biological Anthropology. *Anthropological Science* 120(3): 253-254.

Podium Presentations

Hernandez M, Wei D, Zhu H, Chen L. Ecology, subsistence and cultural admixture – A biomechanical reconstruction of routine activities across Northwest China's prehistoric exchange networks. Paper to be presented at the Ninth Worldwide Conference of the Society for East Asian Archaeology in Boston, Massachusetts. June, 2016

Hernandez M, Wei D, Zhu H, Nie Z. A VERY sick tomb: A case study of infectious and metabolic disease at Yanghai, Turfan Basin, Xinjiang province. Paper to be presented at the Ninth Worldwide Conference of the Society for East Asian Archaeology in Boston, Massachusetts. June, 2016

Hernandez M. Health and the archaic state – Investigating possible links between nutritional stress and government control in early dynastic China. Paper presented at the 16th Annual Conference of the British Association for Biological Anthropology and Osteoarchaeology in Durham, United Kingdom. September, 2014

Hernandez M, Hudson, MJ. Preliminary analysis of activity-related musculo-skeletal stress markers via cross-sectional geometry in Tokugawa-period inhabitants in Miyako Island, Japan. Paper presented at the Fifth Worldwide Conference of the Society for East Asian Archaeology in Fukuoka, Japan. June, 2012

Hernandez M, Wei D, Zhu H. Health Changes during the Neolithic Period at Jiangjialiang, Hebei Province, China. Paper presented at the 19th Congress of the Indo-Pacific Prehistory Association Meeting in Hanoi, Vietnam. November, 2009

Hernandez M. Stature trends among Neolithic populations in the Yellow River Basin. Paper presented at the Fourth Worldwide Conference of the Society for East Asian Archaeology in Beijing, China. June, 2008

Poster Presentations

- Hernandez M, Wei D, Zhu H.** A Eurasian Amazon on horseback: Identification of a female archer via archaeological and paleopathological approaches. Poster presented at the 43rd Annual Paleopathology Association North American Meeting in Atlanta, Georgia. April, 2016
- Hernandez M, Hudson MJ.** Diagnosis and evaluation of causative factors for the presence of endemic treponemal disease in a Japanese tropical island population from the Tokugawa period. Poster presented at the 82nd Annual American Association of Physical Anthropology Meeting in Knoxville, Tennessee. April, 2013
- Hernandez M, Wei D, Zhu H.** Activity-related osteological changes in Late Neolithic populations from Qinghai and Hebei Provinces, China. Poster presented at the 79th Annual American Association of Physical Anthropology Meeting in Albuquerque, New Mexico. April, 2010
- Hernandez M, Wei D, Zhu H.** Diffuse Idiopathic Skeletal Hyperostosis on an Individual from the Xindian culture in Qinghai Province, China. Poster presented at the 37th Annual Paleopathology Association North American Meeting in Albuquerque, New Mexico. April, 2010
- Hernandez M, Pechenkina EA, Fan W.** A Possible Case of Ateliotic Dwarfism in Neolithic China. Poster presented at the 35th Annual Paleopathology Association North American Meeting in Columbus, Ohio. March, 2008

Invited Talks

- Hernandez M.** (2016) Ecology, subsistence and cultural admixture: A bioarchaeological perspective of community health along Northwest China's prehistoric exchange networks. Invited talk at the Department of Anthropology. University of California San Diego – San Diego, USA.
- Hernandez M.** (2015) Progress report and proposed outputs of osteoarchaeological research from the sites of Mogou and Majiayuan. Invited talk at the Gansu Provincial Institute of Cultural Relics and Archaeology (甘肃省文物考古研究所) – Lanzhou, China.
- Hernandez M.** (2015) Early China as a case study for assessing the role of socio-political complexity on human health. Invited talk at the Department of Anthropology, Sun Yat-sen University (中山大学) – Guangzhou, China.
- Hernandez M.** (2014) Worked to the bone: Non-elite mechanical stress patterns in early Chinese state-level societies. Invited talk at the Institute of Archaeology, University of Oxford – Oxford, United Kingdom.
- Hernandez M.** (2013) Promising research methods for elucidating the past and how they can be applied to physical anthropology in China. Invited talk at the School of History, Zhengzhou University (郑州大学) – Zhengzhou, China.
- Hernandez M.** (2012) Health as a measure of sustainability in the earliest state-level societies of East Asia. Invited talk at the Research Centre of Chinese Frontier Archaeology, Jilin University (吉林大学) – Changchun, China.

Teaching Experience

2016 Course instructor for The Archaeology of Human Health and Disease (Spring, 2016)

This graduate seminar is a general introduction to the topic of human population health from ancient times up to the present via the study of mummified and skeletal remains. The goal of this class is to familiarize students with the relationship between pathogens and humans in

regard to their shared evolutionary history. Furthermore, the course explores the principles and methods of bioarchaeological inquiry so that students may understand the essential role of human remains in archaeological contexts and are prepared to identify biological markers of stress and disease in the past.

2015 Supervisor* for Part I, Paper 2 (Humans in Biological Perspective)

This course provides a broad introduction to biological anthropology and covers primate biology and behavior, human evolution and the fossil record of the human lineage. It also covers the molecular basis of life and human genetic diversity from the gene to the population level.

2014 Supervisor for Part I, Paper 2 (Humans in Biological Perspective)

2013 Supervisor for Part I, Paper 2 (Humans in Biological Perspective)

Supervisor for Part II, BA2 (Foundations in Biological Anthropology: The Human Journey)

This course delves deeper into human evolutionary history, beginning from the great apes to the evolution of modern humans, covering fossil hominins from the late Miocene to the Holocene. It also discusses the behavioral and cultural diversity that has taken place in the last 10,000 years, leading to the processes of modernization.

2012 Supervisor for Part I, Paper 2 (Humans in Biological Perspective)

Supervisor for Part II, BA2 (Foundations in Biological Anthropology: The Human Journey)

2011 Supervisor for Part I, Paper 2 (Humans in Biological Perspective)

*Supervisions are small group teaching sessions where graduate teaching assistants clarify lecture topics, present supplementary material, hand out/grade assignments, encourage discussion and prepare undergraduates for year-end, essay-based examinations.

Fieldwork and Laboratory Experience

2015 **Post-doctoral fieldwork research**– University of California Los Angeles

Recorded skeletal data from two sites at the Gansu Provincial Institute of Cultural Relics and Archaeology in Lanzhou and three sites at Jilin University, Changchun.

2013 **Dissertation fieldwork research (continued)** – University of Cambridge

Recorded skeletal data from two sites at Zhengzhou University, Zhengzhou, and one site at Jilin University, Changchun.

2012 **Dissertation fieldwork research** – University of Cambridge

Recorded skeletal data from three sites at Peking University, Beijing, four sites at Northwest University, Xi'an, two sites at the Henan Institute for Cultural Relics and Archaeology, Zhengzhou, one site at Shandong University, Jinan, and five sites at Jilin University, Changchun.

2011/2012 **Excavator/Fieldwork researcher** – University of Cambridge

Excavation of the Nagabaka site in Miyako Island, Japan, led by Dr. Mark J. Hudson of Nishikyushu University. The site dates to AD 1600-1849, during the Satsuma rule of the Ryukyu Islands. Recorded infectious pathology and made moulds of limb bone midshaft contours to assess robusticity within this population.

2011 **Excavator**– University of Cambridge

Excavation of the Funadomari site and reconnaissance of the Hamanaka site, both in Rebun Island, Hokkaido, Japan. The excavations form part of the Baikal-Hokkaido

Archaeology Project. The Funadomari site dates to the Late Jōmon period and the Hamanaka site is a multi-component shell midden site with burials ranging from the Ainu to Jōmon periods.

2009 **M.A. Thesis fieldwork research** - CUNY Hunter College

Recorded skeletal data from four Late Neolithic and Bronze Age sites at the Research Center for Chinese Frontier Archaeology, Jilin University, Changchun. The data was used for my M.A. thesis.

2007 **Summer researcher** - New York Consortium in Evolutionary Primatology

Bioarchaeology fieldwork at the Henan Provincial Institute of Cultural Relics in Zhengzhou and Xinzheng, China. Built database of site collections. Recorded general demographic and health profiles, including age, sex, stature, and oral health of populations in Neolithic and Dynastic periods in China. Compiled a collection of dental casts showing hypoplasias, cavities and groove patterns.