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Keith Chan

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Areas of Interest

Bioarchaeology, forensic anthropology, Andean prehistory, paleopathology, statistics, anthropometry, pedagogy, information technology

Education

- 2003-2011 Ph.D. (Anthropology - Bioarchaeology)
University of Missouri, Columbia
- Dissertation Title: *Life in the Late Intermediate Period at Armatambo, Perú*
Advisers: Robert Benfer and Deborah Pearsall.
- 2001-2003 M.A. (Anthropology - Bioarchaeology)
University of Missouri, Columbia
- Thesis Title: *An Examination of Harris Lines and Femoral Diaphyseal Bending Rigidity Using Bootstrapping*
Adviser: Robert Benfer
- 1997-2001 B.A. (Anthropology)
University of California, Berkeley

Teaching and Employment

- 2017- Associate Faculty, MiraCosta College. Teach introductory biological anthropology course on campus. Responsibilities involve designing and implementing the curriculum and holding office hours to increase engagement with students.
- 2015- Adjunct Faculty Instructor, Grossmont College. Teach introductory anthropology courses both online and on campus. Classes include cultural anthropology on campus and introduction to physical anthropology both online and on campus. Responsibilities involve designing and implementing the curriculum for each medium.
- 2013- Online Associate Faculty Instructor, Ashford University. Teach online asynchronous undergraduate cultural anthropology courses, including frequent interaction with students on discussion boards, explanation of anthropological concepts, as well as all course grading.

- 2011- 2014 Research Specialist. Sinclair School of Nursing, University of Missouri. Worked on a team with other researchers on large-scale NIH and AHA funded meta-analysis projects. Tasks included conducting extensive literature searches and evaluations, coding of data to a standard format, writing data-handling macros for Microsoft Excel, data cleaning, and co-authoring research papers for peer-reviewed journals.
- 2009 Co-Director. Anthropological Radiography Group Field School. Co-taught ten students from various radiology programs from the United States the methods and theory of bioarchaeology while working on a skeletal collection in Lima, Perú.
- 2009 Scoring Team Leader. Assessment Resource Center. Worked with two other team leaders to manage a team of approximately 30 scorers of a standardized test. Duties included quality control to ensure consistency of assigned scores, and working one-on-one with scorers who were lagging in accuracy or productivity.
- 2008 Scoring Team Leader. Assessment Resource Center. Managed a team of approximately 10 scorers of a standardized test. Duties included quality control to ensure consistency of assigned scores, and working one-on-one with scorers who were low in accuracy or productivity.
- 2007 Co-Instructor. Bioarchaeological field school in Lima, Perú via the University of Missouri, Columbia. Co-taught four students from the United States and one from Perú the methodology of skeletal identification and data collection. Duties included assisting in identifying and collecting skeletal data, helping students adjust to Peruvian culture, and managing interpersonal conflicts.

Publications and Presentations

- 2016 Conn, V., Ruppap, T., & Chan, K. (2016). Meta-analyses of theory use in medication adherence intervention studies. *Health Education Research*. 40(2): 155-71.
- 2015 Conn, V., Enriquez, M., Ruppap, T., Cooper, P. & Chan, K. (2015). Health care provider targeted interventions to improve medication adherence: systematic review and meta-analysis. *International Journal of Clinical Practice*. 69(8): 889-99
- 2014 Conn, V., Enriquez, M., Ruppap, T., & Chan, K. (2014). Cultural relevance in medication adherence interventions with underrepresented adults: systematic review and meta-analysis of outcomes. *Preventive Medicine*, 69, 239-47.
- 2014 Conn, V. S., Chan, K. C., & Cooper, P. S. (2014). The problem with p. *Western Journal of Nursing Research*, 36(3), 291-3.

- 2013 Conn, V., Chan, K., Banks, J., Ruppert, T., & Scharff, J. (2013). Cultural relevance of physical activity intervention research with underrepresented populations. *The International Quarterly of Community Health Education*, 34(4), 391-414.
- 2011 Annual Meeting of the Society of American Archaeologists. A paper based on my doctoral research was presented, titled “Life in a Prehistoric State at Armatambo: Lurín Valley, Perú.”
- 2011 Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory. A paper based on my doctoral research was presented, titled “Health and Labor at Armatambo, Perú: How Bioarchaeology Contributes to the Study of Social Complexity.”
- 2007 Curso Taller: Arqueometría y Bioarqueología en el Perú. Universidad Nacional Mayor de San Marcos. Created and delivered a presentation in Spanish. The talk focused on current work on the Armatambo skeletal collection curated by the Museo Nacional de Arqueología, Antropología e Historia del Perú.

Fieldwork and Laboratory Research

- 2009 Radiographic data collection. Museo Nacional de Arqueología, Antropología, e Historia del Perú. Supervised the Anthropological Radiography Group as they radiographed the skeletal collection from Armatambo from the 2007 data collection period. Tasks include choosing burials to investigate, and ensuring quality control over the radiography process.
- 2007 Skeletal data collection. Museo Nacional de Arqueología, Antropología, e Historia del Perú. Collected data from skeletal remains from the Incan period site of Armatambo. Tasks include thorough examination of skeletons for indicators of sex, age, and disease processes, in addition to improving existing data collection forms.
- 2003-2004 Archaeological excavation at Buena Vista, Perú. University of Missouri, Columbia. Tasks include the training of field students in archaeological methods, acting as crew chief for a unit, and helping the students acculturate to Peruvian culture.

Related Work

- 2012- Computer Programmer. Released versions of *Anthropomtron* for iOS (iPhone, iPad) and Android devices. The app is continually updated with new features and equations.
- 2012 Computer Scripter. Released Data Compare-o-Matic, a Visual Basic macro for Microsoft Excel that allows for the comparison of double-entered data.

2011

Computer Programmer. Released a Javascript version of *Anthropotron* (www.keithchan.com/anthropotron/), creating the program from scratch for mobile internet and adding notable stature estimation equations not in the previous version.