

Timothy S. McHale

Boston University, Arts and Sciences
Department of Anthropology
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EDUCATION

2017 - University of Nevada, Las Vegas (USA)

PhD – Anthropology

Specialization: Biological Anthropology

Dissertation Title: “Acute Salivary Steroid Hormone Responses During Coalitional and Dyadic Competition in Hong Kongese Juvenile Children”

Advisors: Dr. Peter Gray (chair), Dr. Alyssa Crittenden, Dr. Pierre Liénard, Dr. Erin Hannon

2011 - Durham University (United Kingdom)

MSc – Evolutionary Anthropology

Advisors: Dr. Jan de Ruiter, Dr. Jamie Lawson

2007 - University of Central Florida (USA)

BS – Biology, BA – Philosophy

MEDICAL CERTIFICATIONS

2011 - University of Incarnate Word (USA)

Clinical Allergy Specialist

RESEARCH INTERESTS

Biocultural perspectives on the evolution of human behavior and physiology; evolution of middle childhood; behavioral endocrinology; life history theory; evolutionary psychology; evolution of human sexuality; sports physiology; competition; Hong Kong children

PROFESSIONAL APPOINTMENTS

Boston University

Summer 2019 – Present

Postdoctoral Research Associate: Dept. of Anthropology

Supervisor: Dr. Carolyn R. Hodges-Simeon

Central Washington University

Fall 2018 – Present

Lecturer: Dept. of Anthropology and Museum Studies

9 Total Courses Taught: Exploring Biological Anthropology (ANTH 110), Human Variation (ANTH 314), Anthropology of Sport (ANTH 499)

College of the Canyons

Fall 2017 – Summer 2018

Adjunct Faculty: Department of Anthropology

10 Total Courses Taught: Introduction to Physical Anthropology (ANTH 101), Introduction to Cultural Anthropology (ANTH 103), Physical Anthropology Lab (ANTH 101L)

University of Nevada, Las Vegas

Spring 2017

Lecturer: Department of Anthropology

Course: Introduction to Cultural Anthropology (ANTH 101)

University of Hong Kong

Honorary Research Associate: School of Modern

August 2016 – January 2017

Languages and Cultures (Hong Kong Studies)

I was lead researcher for three field studies which investigated the relationship between children's acute steroid hormone changes across athletic and non-athletic competitive contexts in Hong Kong.

University of Nevada, at Las Vegas

Fall 2013 – Spring 2016

Lab Instructor: Department of Anthropology

8 Lab Courses Taught: Introduction to Physical Anthropology Lab (ANTH 110L)

University of Nevada, at Las Vegas

Spring 2013 – Spring 2016

Graduate Teaching Assistant: Dept. of Anthropology

Courses: Introduction to Physical Anthropology, Ethnographic Field Methods, Male Studies (online course), Evolution of Everything, and Primate Evolution

PUBLICATIONS (N = 9)

Peer-Reviewed Published Articles, student authors underlined:

1. Gray, P.B., Straftis, A., Bird, B., McHale, T.S., & S. Zilioli. 2019. Human reproductive behavior, life history, and the Challenge Hypothesis: A 30-year review, retrospective and future directions. *Hormones and Behavior*. <https://doi.org/10.1016/j.yhbeh.2019.04.017>
2. McHale, T. S., Gray, P. B., Chan, K., Zava, D. T., & Chee, W. 2018. Hong Kongese juvenile boys' salivary steroid hormone responses during a dyadic athletic competition. *American Journal of Human Biology*. e23190. <https://doi.org/10.1002/ajhb.23190>
3. McHale, T. S., Chee, W., Chan, K., Zava, D. T., & Gray, P. B. 2018. Coalitional physical competition: acute salivary steroid hormone responses among juvenile male soccer players in Hong Kong. *Human Nature*, 29(3), 245-267. <https://doi.org/10.1007/s12110-018-9321-7>
4. McHale, T. S., Gray, P. B., Chan, K., Zava, D. T., & Chee, W. 2018. Acute salivary steroid hormone responses in juvenile boys and girls to non-physical team competition. *Adaptive Human Behavior and Physiology*, 4(3), 223-247. <https://doi.org/10.1007/s40750-018-0089-0>
5. Gray, P. B., Vuong, J., Zava, D., & McHale, T. S. 2018. Testing men's hormone responses to playing League of Legends: No change in testosterone, cortisol, DHEA or androstenedione but a decrease in aldosterone. *Computers in Human Behavior*, 83, 230-234. <https://doi.org/10.1016/j.chb.2018.02.004>
6. Gray, P.B., McHale, T. S., & Justin Carré. 2017. A review of human male field studies of hormones and behavioral reproductive effort. *Hormones and Behavior*, 91, 52-67. <http://dx.doi.org/10.1016/j.yhbeh.2016.07.004>
7. McHale, T. S., Zava, D. T., Hales, D., & Gray, P. B. 2016. Physical competition increases dehydroepiandrosterone (DHEA) and androstenedione rather than testosterone among juvenile boy soccer players. *Adaptive Human Behavior and Physiology*, 2(1), 44-56. <https://doi.org/10.1007/s40750-015-0030-8>
8. Gray, P. B., & McHale, T. S. 2014. Making a new male studies class: Lessons learned from developing and teaching an online male Studies survey course. *New Male Studies*, 3, 55-71.

Encyclopedia Publications:

9. **McHale, T. S.**, & Gray, P. B. 2015. Anatomy, male. In *The International Encyclopedia of Human Sexuality*, edited by Patricia Whelehan and Anne Bolin. Malden, Oxford: John Wiley and Sons, Ltd.

MANUSCRIPTS IN PREPARATION

McHale, T. S., Chee, W., Chan, K., Zava, D. T., & Gray, P. B. In prep. Salivary aldosterone and cortisone responses in juvenile children during physical and non-physical competitions. In prep. Intended for *PLoS ONE*.

GRANTS, AWARDS, AND SCHOLARSHIPS

- The Wenner-Gren Foundation Dissertation Fieldwork Grant (**\$11,473**; Fall 2016)
- UNLV Liberal Arts Summer Graduate Research Award (**\$3,000**; Summer 2017)
- UNLV College of Liberal Arts Faculty - PhD summer scholarship (**\$3,000**; Summer 2016)
- UNLV Patricia J. Sastaunik Honors Scholarship (**\$2,500**; Spring 2017, Fall 2016)
- UNLV Anthropology Department Edwards & Olswang Scholarship (**\$2,000**; Spring 2016)
- UNLV International Programs Scholarship for Graduate Research in Hong Kong (**\$1,000**; Summer 2015)
- UNLV Graduate and Professional Student Research Award for Conference Travel (**\$600**; Spring 2015)
- 2nd Place at the UNLV Professional Graduate Student Association Research Forum (**\$125**; Spring 2015)

CONFERENCE PRESENTATIONS AND INVITED TALKS

Human Behavior and Evolution Society Annual Conference
May 2019

Podium Presentation
Human reproductive behavior, life history, and the Challenge Hypothesis: A 30-year review, retrospective and future directions

American Association of Physical Anthropologists
April 2018

Podium Presentation
Acute salivary steroid hormone responses in juvenile boys and girls to non-physical team competition

Society for Cross-Cultural Research
February 2018

Podium Presentation
Acute salivary steroid hormone responses in juvenile boys and girls to non-physical team competition

Southwestern Association of Biological Anthropologists
November 2017

Podium Presentation
Acute salivary steroid hormone responses in juvenile boys and girls to non-physical team competition

Human Behavior and Evolution Society Annual Conference
May 2017

Podium Presentation
Ontogeny and mechanisms of coalitional competition: Acute hormone responses among juvenile boy soccer players in Hong Kong

University of Hong Kong – Invited Talk
October 2016

School of Modern Languages and Cultures: Seminar Series
A Cross-Cultural and Evolutionary Examination of Prepubescent Children's Hormone Responses to Physical and Non-Physical Forms of Competition

Human Biology Association Annual Meeting

Poster Presentation

March 2015

Investigating Steroid Hormone Change in Response to Competition in Juvenile Boys

University of Nevada, at Las Vegas

October 2014

Grad Slam: 3 Minute Thesis Competition

Investigating Steroid Hormone Change in Response to Competition in Juvenile Boys

STUDENT MENTORSHIP

University of Hong Kong

Summer 2016 – Fall 2017

School of Modern Languages and Cultures

I mentored a master's student at the University of Hong Kong who aided my field research, data collection, and manuscript editing, culminating in three co-authored publications.

University of Nevada, Las Vegas

Summer 2016 – Spring 2017

Anthropology Department

I mentored a freshman undergraduate student who gained participant recruitment, data collection, and manuscript writing experience, resulting in their first co-authored publication in *Computers and Human Behavior*.

RESEARCH EXPERIENCE

University of Hong Kong & University of Nevada, Las Vegas (Hong Kong)

Summer 2016 – Fall 2017

School of Modern Languages and Cultures (Hong Kong Studies); Anthropology Department (UNLV)

I designed three independent field studies, coordinated and led an international research team, and investigated how soccer, table-tennis, and math competitions are associated with acute steroid hormone changes and performance among Hong Kongese juvenile children.

University of Nevada, Las Vegas (USA)

Summer 2016 – Spring 2017

Anthropology Department

I executed a research project titled, *Testing men's hormone responses to playing League of Legends: No change in testosterone, cortisol, DHEA or androstenedione but decrease in aldosterone*. This project required the recruitment of 30 college students (aged 18-25) from the 8-bit gaming club at UNLV, hormone collection, data analysis, and preparation of the manuscript for publication.

University of Nevada, Las Vegas (USA)

Spring 2014 – 2015

Anthropology Department

I led an original research project titled, *Physical competition increases dehydroepiandrosterone (DHEA) and androstenedione rather than testosterone among juvenile boy soccer players*. This project required the recruitment of six juvenile boys' soccer teams, salivary hormone collection, and statistical analysis.

Durham University (United Kingdom)

Dec. 2009 – Sept. 2010

Anthropology Department

I designed and conducted the research project titled, *The Evolution of Male Same-Sex Sexual Behaviour: investigating*

a potential functional correlation between fraternal birth order, sexual orientation, dispersal, and personality traits.
This study consisted of the recruitment of 258 male participants, statistical analysis, and a scientific report.

MANUSCRIPTS REVIEWED

- Spring 2019: Co-reviewer for *PLOS ONE*
- Summer 2017: Reviewer for *Psychoneuroendocrinology*
- Spring 2017: Reviewer for *Evolutionary Psychology*
- Spring 2017: Co-reviewer for *PLOS ONE*
- Spring 2015: Co-reviewer for a book chapter in *Springer*
- Spring 2014: Co-reviewer for *The Journal of Gerontology: Social Sciences*

MEDICAL EXPERIENCE

United Allergy Services

Nationwide

May 2012 – January 2013

Physician Orientation Specialist

I provided a 1.5-hour physician orientation presentation to medical providers, directors, and staff who recently partnered with United Allergy Services. The purpose was to educate the staff on insurance coverage, clinical processes, and procedures regarding allergy testing and administration of allergen immunotherapy.

United Allergy Services

Texas, Oklahoma, Louisiana territories

August 2011 – May 2012

Quality Assurance Specialist

I was responsible for the quality assurance activities of United Allergy Services, which included reviewing lab clinician practices related to established clinical protocols, policy, and procedures across three state territories.

United Allergy Services at Lifetime Family Medicine

Flower Mound, TX

January 2011 – August 2011

Clinical Allergy Specialist

Offered specialized allergy related diagnosis and management tools to patients suffering from allergies: administered allergy tests, created custom allergy immunotherapy serum medication and instructed patients how to use custom-designed antigen therapies to patients.

PROFESSIONAL AFFILIATIONS

- Society for Cross-cultural Research (since 2017)
- Human Behavior and Evolution Society (since 2017)
- American Association of Physical Anthropologists (since 2016)
- Human Biology Association (since 2015)

REFERENCES

Dr. Peter Gray

University of Nevada, Las Vegas

Professor – Anthropology Department

Email: Peter.Gray@unlv.edu

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Dr. Alyssa Crittenden
University of Nevada, Las Vegas
Associate Professor – Anthropology Department
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Dr. Pierre Liénard
University of Nevada, Las Vegas
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Email: Pierre.Lienard@unlv.edu
Phone: 702-895-3831

Dr. Lori Sheeran
Central Washington University
Interim Chair of Anthropology & Museum Studies
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Dr. Wai Chi Chee
Hong Kong Baptist University
Assistant Professor – Department of Education Studies
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Dr. Brian Villmoare
University of Nevada, Las Vegas
Assistant Professor – Anthropology Department
Email: Brian.Villmoare@unlv.edu
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