

## Timothy S. McHale

Anthropology and Museum Studies  
400 E University Way  
Ellensburg, Washington WA 98926-7544  
Office: 509-963-2075  
E-mail: [Timothy.McHale@cwu.edu](mailto:Timothy.McHale@cwu.edu),

### EDUCATION

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- 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**
- 2007 - University of Central Florida (USA)      **BS – Biology, BA – Philosophy**

### MEDICAL CERTIFICATIONS

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- 2011 - University of Incarnate Word (USA)      Clinical Allergy Specialist

### RESEARCH INTERESTS

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My research foci include: 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

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- Central Washington University**  
Fall 2018 – Spring 2019      **Lecturer: Dept. of Anthropology and Museum Studies**  
*Courses: the Anthropology of Sport, Human Variation, Bones, Apes, and Genes: Exploring Biological Anthropology*
- College of the Canyons**  
Fall 2017 – Summer 2018      **Adjunct Faculty: Department of Anthropology**  
*Courses: Introduction to Physical Anthropology, Introduction to Cultural Anthropology, Physical Anthropology Lab*
- University of Nevada, Las Vegas**  
Spring 2017      **Lecturer: Department of Anthropology**  
*Course: Introduction to Cultural Anthropology*
- University of Hong Kong**  
August 2016 – January 2017      **Honorary Research Associate: School of Modern 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**  
*Course:* Introduction to Physical Anthropology Lab

**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

**Guest Lecturer: Evolution and Biology of Human Behavior**  
Modularity, Cognition and Reasoning

**Guest Lecturer: Introduction to Physical Anthropology**  
Hominin brain and language evolution

## PUBLICATIONS

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### Peer Reviewed Journal Articles:

**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>

**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>

**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>

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>

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>

**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>

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 Entries:

**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

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Gray, P.B., Straftis, A., Bird, B., **McHale, T.S.**, & S. Zilioli. In prep. Human reproductive behavior, life history, and the Challenge Hypothesis: A 30-year review, retrospective and future directions. Intended for *Hormones and Behavior*.

**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

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- 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)
- 2<sup>nd</sup> Place at the UNLV Professional Graduate Student Association Research Forum (**\$125**; Spring 2015)

## CONFERENCE PRESENTATIONS AND INVITED TALKS

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**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*

**Invited Talk: University of Hong Kong**  
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**  
March 2015

**Poster Presentation**

*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

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**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 two co-authored publications, with a third currently under review.

**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

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**University of Hong Kong & University of Nevada, Las Vegas**  
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**  
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**  
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

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- 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*

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## MEDICAL FIELD 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.

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## 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)

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## REFERENCES

Dr. Peter Gray

University of Nevada, Las Vegas

Professor - Anthropology Department

Email: [Peter.Gray@unlv.edu](mailto:Peter.Gray@unlv.edu)

Phone: 702-327-2259

Dr. Alyssa Crittenden

University of Nevada, Las Vegas

Associate Professor - Anthropology Department

Email: [Alyssa.Crittenden@unlv.edu](mailto:Alyssa.Crittenden@unlv.edu)

Phone: 702-895-3709

Dr. Brian Villmoare

University of Nevada, Las Vegas

Assistant Professor - Anthropology Department

Email: [Brian.Villmoare@unlv.edu](mailto:Brian.Villmoare@unlv.edu)

Phone: 443-743-4271

Dr. Pierre Liénard

University of Nevada, Las Vegas

Associate Professor - Anthropology Department

Email: [Pierre.Lienard@unlv.edu](mailto:Pierre.Lienard@unlv.edu)

Phone: 702-895-3831