

Lindsay Coome, B.A., M.A.

Department of Psychology
University of Toronto
Curriculum Vitae

EDUCATION

Sept. 2013 – Present

University of Toronto, PhD

Thesis Title: Biological Variation in Same-Sex Attracted Males in a Thai and Canadian

Sample: A Cross-Cultural Approach

Supervisors: Dr. Ashley Monks and Dr. Doug VanderLaan

Outside Project Supervisor: Dr. Darryl Gwynne

Sept. 2012 – 2013

University of Toronto, MA

Date of Completion: September 2013

Thesis Title: Neural Action of Androgens in the Suprachiasmatic Nucleus Brain Clock

Supervisor: Dr. Ashley Monks

Sept. 2007 – 2012

University of Western Ontario, BA with an honours specialization in Psychology

Date of Completion: June 2012

Thesis Title: The Effects of the Rat Estrous Cycle on Lithium Chloride-Induced Conditioned Taste Avoidances

Supervisors: Dr. Peter Ossenkopp and Dr. Martin Kavaliers

PUBLICATIONS

Coome, L. A. (2016). Nutritionally Deprived Black-Horned Tree Cricket (*Oecanthus nigricornis*) Consumes Own Spermatophore After Failed Mating. *Archives of Sexual Behavior*.

Swift-Gallant, A., Coome, L.A., Monks, D.A., & VanderLaan, D.P. (2016). Gender nonconformity and birth order in relation to anal sex role among gay men. *Archives of Sexual Behavior*.

Swift-Gallant, A., Coome, L., Srinivasan, S., & Monks, D. A. (2016). Non-neural androgen receptor promotes androphilic odor preference in mice. *Hormones and Behavior*.

Swift-Gallant, A., Coome, L. A., Ramzan, F., & Monks, D. A. (2015). Nonneural androgen receptors affect sexual differentiation of brain and behavior. *Endocrinology*.

PUBLICATIONS - UNDER REVIEW

Swift-Gallant, A., Coome, L.A., Monks, D.A., & VanderLaan, D.P. (*PLOS One*, Reference ID: PONE-D-16-30792). Handedness is a Biomarker of Variation in Sexual Behavior and Gender Nonconformity Among Gay Men.

Swift-Gallant, A., Ramzan, F., Coome, L.A., & Monks, D.A. (*PLOS One*, Reference ID: PONE-D-16-31129). Organization of male-typical preference for female cues is affected by both neural and non-neural androgen receptors in mice.

BOOK CHAPTERS

Coome, L. A., & Swift-Gallant, A. (2018). Boy's Rough-and-Tumble Play (D. P. VanderLaan, Ed.). In T. K. Shackelford & V. Weekes-Shackelford (Eds.), *Encyclopedia of Evolutionary Psychological Science* (1st ed.). Springer International Publishing.

Coome, L. A., & Swift-Gallant, A. (2018). Girl's Interest in Familial Care (D. P. VanderLaan, Ed.). In T. K. Shackelford & V. Weekes-Shackelford (Eds.), *Encyclopedia of Evolutionary Psychological Science* (1st ed.). Springer International Publishing.

Swift-Gallant, A., & Coome, L. A. (2018). Development of Sex Differences (D. P. VanderLaan, Ed.). In T. K. Shackelford & V. Weekes-Shackelford (Eds.), *Encyclopedia of Evolutionary Psychological Science* (1st ed.). Springer International Publishing.

PUBLICATIONS – IN-PREP

Coome, L.A., Swift-Gallant, A., Karatsoreos, I., & Monks, D.A. (In prep). Neural action of androgens in the suprachiasmatic nucleus brain clock.

Coome, L.A., Swift-Gallant, A., Ramzan, F., Melhuish, L., & Monks, D.A. (In prep). Effects of global and neural androgen receptor overexpression on the sexually dimorphic spinal nucleus of the bulbocavernosus.

Coome, L.A., Ercit, K., & Gwynne, D.T. (In prep). Cryptic female choice in the black-horned tree cricket (*Oecanthus nigricornis*).

Swift-Gallant, A., Coome, L.A., Monks, D.A., & VanderLaan, D.P. (In prep). Immune, genetic, and hormonal markers as indicators of subgroups among gay men.

Swift-Gallant, A., Coome, L.A., & Monks, D.A. (In prep). Androgen receptor overexpression interferes with male olfactory preference in mice.

Ramzan, F., Swift-Gallant, A., Coome, L., & Monks, D.A. (In prep). Androgen receptor overexpression leads to masculinization of the CALB-SDN.

REFEREED ORAL PRESENTATIONS

Coome, L., Swift-Gallant, A., VanderLaan, D.P., & Monks, D.A. (September, 2016). Fraternal birth order and handedness as bio-correlates of gender nonconformity and anal sex role among gay men. Canadian Sex Research Forum, Quebec City, QC, Canada.

REFEREED CONFERENCE PRESENTATIONS

Coome, L.A., Melhuish Bueapre, L., Swift-Gallant, A., Ramzan, A., & Monks, D.A. (August, 2016). Effects of global and neural androgen receptor overexpression on the spinal nucleus of the bulbocavernosus. Society for Behavioral Neuroendocrinology, Montreal, QC, Canada.

VanderLaan, D.P., Swift-Gallant, A., Coome, L.A., & Monks, D.A. (June, 2016). Does the fraternal birth order effect apply primarily to gay men with a bottom anal sex role preference? International Academy of Sex Research, Malmö, Sweden.

Coome, L.A., Melhuish Bueapre, L., Swift-Gallant, A., Ramzan, A., & Monks, D.A. (May, 2016). Effects of global and neural androgen receptor overexpression on the spinal nucleus of the bulbocavernosus. UTM Graduate Research Colloquium, Mississauga, ON, Canada.

Swift-Gallant, A., Coome, L., Ramzan, F. & Monks, D.A. (October, 2015). Non-neural androgen receptors contribute to the sexual differentiation of the brain and behavior. Society for Neuroscience, Nanosymposia 468.07, Chicago, IL, USA.

Ramzan, F., Coome, L., Swift-Gallant, A., & Monks, D.A. (June, 2015). Androgen receptor overexpression affects cell size in SDN-POA. Society for Behavioral Neuroendocrinology, Pacific Grove, CA, U.S.A.

Swift-Gallant, A., Coome, L., Almeida, D., Kretschmer, B., Ramzan, F. & Monks, D.A. (November, 2014). Roles for neural and non-neural androgen receptors in the organization of masculine olfactory preference. Society for Neuroscience, Washington, DC, U.S.A.

Coome, L., Swift-Gallant, A. & Monks, D.A. (August, 2014). Androgens can affect photic response of the suprachiasmatic nucleus via actions on neural androgen receptors. Society for Behavioral Neuroendocrinology, Sydney, Australia.

Coome, L., Swift-Gallant, A. & Monks, D.A. (April, 2014). Neural action of androgens in the suprachiasmatic nucleus brain clock. Organization for the Study of Sex Differences, Minneapolis, MN, U.S.A.

Swift-Gallant, A., Montano, K., Coome, L., Ramzan, F. & Monks, D.A. (April, 2014). Global and neural overexpression of androgen receptors differentially influence copulatory and social behaviors in mice. Organization for the Study of Sex Differences, Minneapolis, MN, U.S.A.

CONFERENCE SESSIONS ORGANIZED

"Study Groups - Crossing the Boundaries of Discipline." (October 28-30, 2016). Mozilla Festival 2016, Open Science Space. Ravensbourne College, North Greenwich, London, UK.

INVITED COLLOQUIA TALKS

Coome, L.A. (September 29, 2014). "Neural action of androgens in the suprachiasmatic nucleus." Departmental Brown-Bag Meeting, University of Toronto Mississauga.

Coome, L.A. (October 23, 2014). "Neural action of androgens in the suprachiasmatic nucleus." Graduate-Led Academic Seminar Series (GLASS), University of Toronto St. George.

INVITED WORKSHOP PRESENTATIONS

Coome, L.A. (Wednesday, October 22, 2014). "Getting into graduate school". Canadian Psychological Association and Academic Advising and Career Centre Workshop, University of Toronto, Mississauga.

Coome, L.A. (Tuesday, October 14, 2014). "Getting into graduate school". Canadian Psychological Association and Academic Advising and Career Centre Workshop, University of Toronto, St. George.

GUEST LECTURES

Coome, L.A. (February 10, 2015). "Animal models of anxiety." Psychobiology Laboratory PSY399, University of Toronto Mississauga.

Coome, L.A. (June 15, 2015). "Biological Rhythms", Hormones and Behaviour PSY395, University of Toronto Mississauga.

Coomes, L.A. (October 22, 2015). "Basic Statistics in R", Mozilla Science Lab Study Group at the University of Toronto.

SCIENCE OUTREACH LECTURES

Coomes, L.A. (May 3, 2016). "The Mating Game: Animal Courtship and Reproduction." Let's Talk Science Challenge, University of Toronto Mississauga.

WORKSHOPS INSTRUCTED AND ORGANIZED

"Software Carpentry Workshop: R for Reproducible Scientific Analysis, Git, and Unix Shell." (April 25-26, 2016). Presented in association with U of T Scientific Coders and U of T Association for Information Systems. Claude T. Bissell Building, St. George Campus, University of Toronto.

"Software Carpentry Workshop: Programming with Python, Git, and Unix Shell." (May 9-10, 2016). Presented in association with U of T Scientific Coders and U of T Association for Information Systems. Claude T. Bissell Building, St. George Campus, University of Toronto.

"Software Carpentry Workshop: R for Reproducible Scientific Analysis, Git, and Unix Shell." (May 26-27, 2016). Presented in association with U of T Scientific Coders and U of T Association for Information Systems. Claude T. Bissell Building, St. George Campus, University of Toronto.

"Workshop for Postdoctoral Fellows: Scientific Programming in Python". (July 27, August 3, & August 10). Presented in association with U of T Scientific Coders and CUPE 3902 Unit 5.

PROFESSIONAL AFFILIATIONS

Society for Behavioral Neuroendocrinology
Organization for the Study of Sex Differences
Canadian Psychological Association
Society for Neuroscience
Canadian Sex Research Forum

TEACHING EXPERIENCE

2012-Present	Teaching Assistant, University of Toronto Mississauga <ul style="list-style-type: none">• PSY399 - Psychobiology Laboratory• PSY395 - Hormones and Behaviour
---------------------	--

- PSY354 - Biopsychology of Sex
 - PSY100 - Introduction to Psychology
 - PSY290 - Introduction to Physiological Psychology
- 2016-Present** **Workshop Instructor**, Undergraduate Research Student Statistics Workshop Series
- Correlation and Regression
 - Multiple Regression
 - Mediation and Moderation
 - Non-Parametric Statistics
 - Reliability and Factor Analysis
- 2016-Present** **Tutorial Leader**, University of Toronto Mississauga
- PSY201 - Statistics I

VOLUNTEERING AND SCIENCE OUTREACH

- 2002-2005** **Tutorial Writer**, HTML, CSS, JavaScript, and Adobe Photoshop
- Developed free online tutorials on basic concepts in web coding and graphics design
 - Created a tutorial website attracting over one million unique viewers
 - Lessons featured on several tutorial aggregator websites, including good-tutorials.com and tutorialkit.com
- 2012-Present** **Volunteer and Keynote Speaker**, Let's Talk Science UTM
- Volunteered and served as judge for the annual Let's Talk Science Challenge, a full day on-campus program with a question and answer competition, and an interactive, hands-on design challenge
 - Invited as keynote speaker for the 2016 challenge and gave a talk to over 300 grade 6-8 students on evolution, sexual selection, and unusual animal courtship rituals
- 2014** **Judge and Volunteer**, Ontario Biology Day Research Conference (University of Toronto)
- Acted as judge and volunteer for the 27th annual Ontario Biology Day (OBD) undergraduate student research conference, an event where 220 4th year undergraduate students from Ontario Universities presented their research findings through oral talks and poster presentations

- 2014-Present** **Organizing Committee, Science Literacy Week UTM**
- Co-founder and organizer of Science Literacy Week at UTM, a week-long event aimed at promoting science literacy among undergraduates at the University of Toronto
 - Responsible for marketing and designing promotional materials, event programming, and running interactive science demonstrations
 - Organized free public science lectures by UTM faculty
- 2014-Present** **Graduate Program Campus Representative, Canadian Psychological Association, for the University of Toronto**
- Responsible for representing the CPA section for students at the University of Toronto
 - Organized workshops for undergraduate students on applying to graduate school and preparing a submission to the annual CPA convention
- 2014-Present** **Executive Committee, Graphics and Website Designer for Science Rendezvous at the University of Toronto**
- Member of the media and marketing team, lead graphics designer and webmaster for Science Rendezvous at U of T, a science outreach festival drawing over 15,000 visitors annually
 - Responsible for creating a marketing campaign, including a TTC ad campaign, with an \$8,000 budget
 - Created a Wordpress site for the festival that drew over 200,000 unique visitors
 - Helped organize the first annual Toronto District Science Fair, a Toronto-wide science poster competition aimed at promoting scientific literacy by recognizing teaching excellence and commitment to science, technology, engineering and mathematics (STEM) education
- 2015** **Sexposium 1st Annual Conference Organizing Committee, Ontario Science Centre, July 2015**
- Organized interdisciplinary scientific conference featuring 50 presentations on sex and relationship research from students, professors, and community leaders
 - Aimed at both researchers and the general public to advance understanding of love and sex through science education and outreach
 - Featured student poster & oral presentations in addition to keynote speakers

- 2015-Present** **Software Carpentry Instructor**, Software Carpentry Foundation for research computing
- Completed Software Carpentry's training course on pedagogy and improving teaching techniques
 - Responsible for organizing and running intensive workshops that cover program design, version control, testing, and task automation using R, Python, bash and Git
 - Helped to organize one workshop on Python/Unix Shell/Git and two on R/Unix Shell/Git, all of which qualified for the University of Toronto Co-Curricular Record Program (CCR)
 - Organized and acted as lead instructor for R programming lesson in a workshop for learners who identify as women
- 2015-Present** **Executive Committee - Workshop Coordinator**, University of Toronto Scientific Coders Group
- Responsible for leading sessions on topics in scientific computing for the benefit of graduate students at the University of Toronto
 - Responsible for promoting reproducible computational research and good computing practices
 - Responsible for coordinating and organizing Software Carpentry workshops held in association with U of T Scientific Coders
 - Designed a workshop series for Postdoctoral Fellows at U of T in cooperation with CUPE 3902 on scientific programming in Python
 - Helped organize a Github Pages/Jekyll website redesign hackathon and contributed to the site design
- 2016-Present** **Newsletter Editor**, Canadian Sex Research Forum
- Responsible for communicating to members reflections from our meetings, highlights of our members, and save-the-dates for future meetings and events
 - Responsible for editing, soliciting, and collating submissions from members (e.g., reports, biographies/ member profiles, announcements, pictures, etc)
 - Responsible for creating the layout and design of the newsletter, including graphics, typography, and photo editing
- 2016-Present** **Mentor**, Science Literacy Week Women in STEM Mentorship Initiative
- The Women in STEM Mentorship Initiative provides opportunities for girls/young women aspiring to scientific careers to have the chance to talk with women already established in science with the goal of getting more women into STEM fields and removing the barriers that still exist toward this end

- Responsibilities include corresponding and meeting with young girls/women interested in science and providing career advice and relating experiences about being a woman in science

2016-Present **Member of ExpertWomen**, a non-profit project of Informed Opinions and Media Action

- ExpertWomen is a non-profit initiative aimed at increasing women experts and academics' voices in public discourse
- Responsible for maintaining a profile in the ExpertWomen database and being available for inquiries from journalists, producers, conference planners, recruiters and research collaborators to speak about my research

GRADUATE AWARDS

2016	2nd Place Oral Talk, "Fraternal birth order and handedness as bio-correlates of gender nonconformity and anal sex role among gay men", Canadian Sex Research Forum, Quebec City, QC, Canada
2016	U of T Mississauga Teaching Excellence Award for Outstanding Teaching by a Teaching Assistant
2016	General Motors Women in Science & Mathematics Award (Office of the Dean, University of Toronto), \$3,800
2016	Travel Award, MozFest 2016 Open Science Space, "Study Groups - Crossing the Boundaries of Discipline" (Co-Applicant), \$1,000
2016	Graduate Expansion Fund Development Grant for a Scientific and Statistical Computing Workshop (Co-Applicant, Department of Psychology, UTM), \$4,500
2016	Graduate Conference/Workshop Grant for the Society for Behavioural Neuroendocrinology (Department of Psychology, UTM), \$1,500
2015	Graduate Expansion Fund Development Grant for a Customized Multi-Day Course at the Advanced Microscopy Facility (AOMF), St. George Campus (Co-Applicant, Department of Psychology, UTM), \$7,000
2014	Graduate Conference/Workshop Grant for Society for Behavioral Neuroendocrinology (Department of Psychology, UTM), \$3,000
2014	Graduate Conference/Workshop Grant for the Organization for the Study of Sex Differences (Department of Psychology, UTM), \$1,000

2014	Graduate Student Travel Grant for the Organization for the Study of Sex Differences (Office of the Vice Dean, UTM), \$400
2014	SGS Conference Grant for the Organization for the Study of Sex Differences (School of Graduate Studies), \$550

UNDERGRADUATE AWARDS AND HONOURS

2010-2012	University of Western Ontario Dean's Honours List
2007-2008	Queen Elizabeth II Aiming for the Top Scholarship
2007	The Western Scholarship of Excellence

RELEVANT SKILLS

Core Skills	<ul style="list-style-type: none"> • Statistics and Data Analysis • SPSS • R • Scientific Writing • Experimental Design • Survey Construction • Qualtrics Survey Platform • University Teaching • Public Speaking • Workshop Facilitation • Science Outreach and Education • Neuroscience • Biological Psychology • Social Psychology • Cross-Cultural Psychology
Bench Skills	<ul style="list-style-type: none"> • Anthropometry • Geometric Morphometric Face Analysis • Immunohistochemistry • Immunofluorescence • PCR and qPCR • Veterinary Surgery on Rodents • Western Blotting • Microscopy

- ELISA
- Stereology
- Behaviour Testing in Rodents
- Image Analysis in ImageJ

Other Skills

- HTML5/CSS3
- Graphic Design
- Wordpress
- Bash (Basic Knowledge)
- Python (Basic Knowledge)
- Adobe Photoshop
- Adobe Illustrator
- Adobe Lightroom
- Microsoft Powerpoint
- Microsoft Excel

RELEVANT PROFESSIONAL EXPERIENCE

2014	UTM Psychology Workshop on Enzyme-linked Immunosorbent Assays (ELISA)
2014	UTM Psychology Workshop on Western Blots
2014	UTM Psychology Workshop on Enzyme Assays
2014	Teaching Workshop on Teaching Neuroendocrinology, Society for Behavioral Neuroendocrinology
2015	Comprehensive Course on Fluorescence Microscopy, Advanced Optical Microscopy Facility (AOMF)
2015	Software Carpentry Instructor Certification
2015 & 2016	CAMH Computing Skills Workshop for Researchers
2016	UTM Programming in MATLAB for Psychologists Workshop
2016	Graphic Designer for the School of Graduate Studies

PROFESSIONAL CONTRIBUTIONS

2015	Sexposium 1st annual conference, co-founder and conference organizing committee, Ontario Science Centre, July 2015
------	--

2015-Present	Session leader and executive committee member, University of Toronto Scientific Coders
2016-Present	Member of SIN (Sexuality Interest Network), Psychology Department Interest Group
2016-Present	Canadian Sex Research Forum newsletter editor

MENTORING

Lindsay Melhuish	2015-2016 Effects of global and neural androgen receptor overexpression on the spinal nucleus of the bulbocavernosus
Mehek Badiani	2015-2016 Organizational and activational effects of androgen receptors on motoneurons in a sexually dimorphic spinal nucleus
Chris Lowden	2015-2016 Investigating Insulin-like Growth Factor 1 and the early postnatal development of the sexually dimorphic spinal nucleus of the bulbocavernosus
Tanya Brkic	2016-Present Effects of perinatal Insulin-like Growth Factor 1 administration on neural sexual dimorphisms
Emily Jodi Chen	May-September 2015 Volunteer