Colin Howes

Learn more about me at: **colinhowes.me**
View my public projects at: **github.com/chowes**

Education

MSc: Neuroscience and Applied Cognitive Science   **2014 – Present**
    University of Guelph
    GPA: 3.98
    Awards: Dean's Entrance Scholarship, Ontario Graduate Scholarship
BA: Psychology, Minor in Law (Highest Honours)   **2008 – 2013**
    Carleton University
    GPA: 3.58
    Awards: Entrance Scholarship, Dean's Honour List

Projects

Alternative Data Collection
    Survey platform designed to enhance self report responding through gamification and user experience enhancement
    - Designed and implemented a survey builder web application (MySQL, JavaScript, PHP)
    - Built a dynamic data visualization web application (R, Shiny Framework)

Prenatal Testosterone and Later-Life Social Behaviour
    Behavioural neuroscience research project aimed at elucidating the developmental role of testosterone as a mediator of sexually dimorphic social behaviour
    - Performed biological and behavioural assays in a mouse model
    - Managed and mentored a team of undergraduate research students

Teaching

Teaching Assistant
    *PSYC*1000 – Introduction to Psychology*
    *PSYC*2390 – Sensation and Perception*
    *PSYC*3370 – Experimental Design and Analysis*
        Led a seminar on statistical analysis techniques for a class of high-acheiving psychology students in preparation for an honours thesis course

Tutoring
    Experience teaching statistical methods and theory to mature students, as well as a student with a profound visual impairment

Skills

Technical Tools:
R and Shiny framework, C, Java, HTML/CSS, PHP, JavaScript and AngularJS, MySQL, Git
Research Techniques:
Behavioural assays, statistical analysis, surgical manipulations, DNA isolation and PCR
Project Management:
Team leadership, project planning and troubleshooting, mentorship and training

Presentations

Posters:

Howes, C., et al (2016). *The effects of sex and early and later life gonadal hormone intervention on anxiety-like behaviour in CD1 mice.* Southern Ontario Neuroscience Association 36th annual meeting, Waterloo, Ontario, Canada

Howes, C., et al (2015). *The effects of hyperandrogenic prenatal environment on later life social learning and gonadal hormone sensitivity*. Society for Neuroscience 45th annual meeting, Chicago, Illinois, USA

Talks:

Howes, C., et al (2015). *Prenatal testosterone treatment does not affect social learning in juvenile mice.* NACS Speaker Series, University of Guelph