

Gabriel Crone

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EDUCATION

Master of Arts, Quantitative Methods,
Psychology, York University

September 2023–Present

Specialized Honours Bachelor of Science,

September 2019–May 2023

Psychology, York University

Graduated *Summa Cum Laude*

Certificate in Psychological Methods and Data Analysis

[Applied Methods and Analysis Concentration](#)

THESES

Undergraduate Honours Thesis

Title: A historical review of *p*-value reporting in psychology

Supervisor: Dr. Christopher Green

Synopsis: The purpose of this thesis was to investigate trends in *p*-value reporting across a diverse selection of notable psychology journals, spanning every 5th year from several decades to 2020.

Date Completed: May 2023

AWARDS, HONOURS, AND SCHOLARSHIPS

Joseph-Armand Bombardier Canada Graduate Scholarship, SSHRC, Master's (CGS-M)	\$17,500	2023–2024
Ontario Graduate Scholarship (Declined)	\$15,000	2023–2024
Department of Psychology Undergraduate Thesis Poster Day Contest, Top 5 Placement (Honourable Mention)	NA	2023
York University, Renewable Entrance Scholarship	\$3,500 x 4	2019–2022
York University, Dean's Honour Roll	NA	2019

RESEARCH INTERESTS

- Methodological, statistical, and critical issues in psychology
- Statistical methods, pedagogy, and the teaching of statistics

CONFERENCE PRESENTATIONS

Alter, U., **Crone, G.**, Camilleri, C., & Counsell, A. (2023, June 23). *The perceived utility and necessity of statistics training outside of PhD programs*. In A. Counsell (Chair), Attitudes, Barriers, and Training in Open Science Research Practices [Symposium], Canadian Psychological Association 84th Annual National Convention, Toronto, ON, Canada.

- Camilleri, C., **Crone, G.**, Alter, U., & Counsell, A. (2023, June 23). *Statistics Attitudes, Research Practices, and Barriers to Engaging in Open Science Behaviours*. In A. Counsell (Chair), *Attitudes, Barriers, and Training in Open Science Research Practices* [Symposium], Canadian Psychological Association 84th Annual National Convention, Toronto, ON, Canada.
- Green, C.D., **Crone, G.**, & Adkins, M. C. (2023, June 23). *p-Hacking and Statistical (Mis)reporting: What do Past p-Values Indicate?* Review session presented at the Canadian Psychological Association 84th Annual National Convention, Toronto, ON, Canada.
- Green, C. D., Feinerer, I., Davidson, I. J., & **Crone, G.** (2023, June). *The Intellectual Landscapes of American and British 19th-Century Psychiatry*. Presented at the annual conference of Cheiron: The International Society for the History of Behavioral and Social Sciences, Fordham University, New York, NY.
- Crone, G.**, & Green, C. D. (2023, May 12). *The ps of the Past: A Historical Review of p-Value Reporting in Psychology*. [Conference session]. The Annual Ontario Psychology Undergraduate Thesis Conference at University of Windsor, ON, Canada.
- Green, C. D., Feuberer, I., Davidson, I. J., & **Crone, G.** (2023, March 17). *Using Digital Networks to Explore 19th-Century Psychiatry Journals*. Keynote lecture given at History of Medicine Days, University of Calgary, AB, Canada.

INVITED TALKS

- Crone, G.**, & Flora, D. B. (2022, October 3). *Are we on the right path? A review of effect size reporting and interpretations in contemporary SEM*. [Invited Talk]. Quantitative Methods Area Forum, York University, Toronto, ON, Canada.

MANUSCRIPTS IN PREPARATION

- Crone, G.**, Alter, U., Camilleri, C., & Counsell, A. (in prep). Resources and barriers related to voluntary statistics training tools for psychology researchers. Target outlet: Canadian Psychology
- Camilleri, C., **Crone, G.**, Alter, U., & Counsell, A. (in prep). The relationship between statistics attitudes and questionable research practices. Target outlet: TBD

RESEARCH EXPERIENCE

Toronto Metropolitan University

Toronto, ON

Department of Psychology, Research Assistant

Fall 2021–Present

Supervisor: Dr. Alyssa Counsell

- Statistics Anxiety Measure Project
 - Currently in the process of being trained to code responses in line with the response process evaluation method.

- With a collaborator, created, customized, and ran testing on five Qualtrics surveys as part of a larger study on a new statistics anxiety measure. Also assisted in integrating the surveys with SONA, a university-specific participant pool.
- Statistical Attitudes and Research Practices Project
 - Performed data cleaning (in R) by assessing participants based upon specific exclusion and data quality criteria. Plotted histograms of data, wrote annotated R code, and communicated steps through summary tables.
 - Responded to graduate coordinators and updated a tracker sheet to reflect information regarding survey distribution.
 - Completed a contact list of graduate coordinators for all Canadian and American psychology programs, over the course of two months.
- Canadian Undergraduate Psychology Syllabi Project
 - Participating in the editing of the manuscript draft for publication.
 - Performed qualitative coding on several hundred psychology introductory statistics syllabi, and reconciled inconsistencies with fellow coders.
 - Assisted in administrative tasks, such as downloading syllabi from course repositories, recording whether syllabi contained required texts, and creating spreadsheets detailing course-specific information.
 - Underwent training to be able to most effectively qualitatively code for several key variables within psychology syllabi.
- Ungrading Evaluation Project
 - Edited a manuscript produced from zoom's autocaptioning feature for punctuation, syntax, and grammar to be used as part of a thematic analysis.
- Factors Associated with Student Competence Using Statistical Software Project
 - Performed data cleaning on a dataset regarding students' development of competence with statistical software.

York University

Toronto, ON

Department of Psychology, Research Assistant

Summer 2021–Present

Supervisor: Dr. Christopher Green

- Exploring Teaching of Effect Sizes in Canadian Statistics Courses Project
 - Edited, proofread, and provided suggestions to improve the quality and clarity of a survey.
 - Completed an extensive record of all English-speaking Canadian undergraduate and graduate statistics courses, over the course of three months.
 - Met regularly to discuss challenges, progress, and next steps for the project.
- American Journal of Psychiatry Project
 - Performed document batch processing and quality assurance for individual research articles from the *American Journal of Psychiatry* across several volumes.

- Communicated via email to discuss potential problems and collaboratively solve issues as they arose.

York University

Toronto, ON

Department of Psychology, Independent Research Project Student
Summer 2022

Supervisor: Dr. David Flora

- Conducted a literature review investigating effect size reporting and interpretations within contemporary structural equation models.
- Performed qualitative coding and analysis for 75 studies, and subsequently prepared an APA-style manuscript.
- Learned the general principles of structural equation modeling (SEM), including model specification, estimation, and evaluation. Completed an SEM assessment involving fitting two structural equation models in R's *lavaan* package.

McMaster University

Hamilton, ON

Department of Psychology, Neuroscience and Behaviour, Research Assistant
Summer 2020–Summer 2021

Supervisor: Dr. Suzanna Becker

- Parental Alienation Project
 - Assisted in creating a comprehensive list of shelters that are friendly for abused women, abused men, members of the LGBTQ+ community, and Aboriginal and First Nations people.
 - Located popular articles to better understand the societal perceptions and implications of parental alienation.
- Trauma Recovery and Mindfulness Project
 - Developed an annotated bibliography exploring the differentiation in symptom profile in trauma-induced alexithymia versus trauma-induced dissociation in post-traumatic stress disorder.
 - Collaborated with a group of five undergraduate students in learning about trauma, recovery, and PTSD, which included presenting concise chapter summaries of Judith Butler's *Trauma and Recovery* at a weekly book club.

PROFESSIONAL EXPERIENCE

Professional Writing Student Association (PWSA) Symposium

Toronto, ON

York University Symposium Panelist & Junior Web Developer
Summer 2022

- Junior Web Developer
 - Conducted research pertaining to the costs of a virtual venue for the symposium, including exploring payment options, investigating the technical aspects of the event, and communicating findings with a team of executives.

- Helped panelists edit and construct their webpages, as well as provided technical assistance during rehearsals.

Summer 2021

- Symposium Panelist
 - Crafted, drafted, and presented a multimedia poem with visual and auditory elements as part of an annual writing symposium.
 - Collaborated with a group of professional writing students in developing, substantively editing, and presenting pieces.
 - Led meetings with panelists to refine, revise, and polish final pieces.

VOLUNTEERING EXPERIENCE

Writing in Psychology (PSYC 2010 Summer Term)

Toronto, ON

York University Peer Mentor

Summer 2021

- Assisted Dr. Julie Conder's Writing in Psychology class as a Peer Mentor, a previously successful student who helped new students in the course.
- Provided feedback and guidance on how to craft essay components and final projects, including developing and improving research questions, essay arguments, and sentence structure.
- Shared personal writing experiences and gave students advice regarding the writing process (first drafts, editing, citations, proofreading).

Jewish Family and Child Service

Toronto, ON

The Homework Club, Tutor

Fall 2020–Winter 2021

- Tutored high-school level students in the community in a variety of subjects, including Learning Strategies, English, and Mathematics.
- Provided specialized lessons and study sessions to best suit students' needs.

WORKSHOPS ATTENDED

- Quantitative Methods Workshop Series, York University (click [here](#) to view all badges acquired)
 - Introduction to Shiny
 - Introduction to LaTeX and R Markdown
 - Latent Profile Analysis
 - Power Analysis in Structural Equation Modeling
 - Introduction to SPSS
 - Data Scraping and Text Analysis
 - Introduction to Monte Carlo Simulation Experiments
 - Introduction to Bayesian Analysis
 - Hands-on Introduction to Systematic Reviews and Meta-Analysis

- The Center for Statistical Training (CentreStat)
 - Introduction to Structural Equation Modeling
- Institute for Statistical and Data Science (InStats)
 - Path Analysis and Indirect Effects in R

SOFTWARE

R and RStudio

SPSS

Mplus

Python

Microsoft Office Suite (e.g., Excel, Word, PowerPoint)