# Megan Earle

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## EDUCATION

**PhD: Social Psychology,** Brock University, St. Catharine's, Ontario            Anticipated June 2022
**MA: Social Psychology,** Brock University, St. Catharine's, Ontario                    October 2017
**Honors BA: Psychology**, Brock University, St. Catharine's, Ontario                        June 2015

## PROFESSIONAL EXPERIENCE

**RESEARCH**

- Led and supported multi-national collaborative research projects to study social problems, including inequality, political polarization, media use, and effects of government policy on individuals' behavior
- Designed, implemented, and used quantitative methods to assess a strategy to reduce climate change, finding that the technique increased participants' intentions to consume a more environmentally friendly product by 13%
- Worked collaboratively to design a virtual therapy program to support mental health during the COVID-19 pandemic
- Synthesized research from sociology, political science, psychology, and computer science to inform new research projects
- Used R, Python, and SQL to manipulate and assess data via regression modeling, longitudinal data analysis, experimental data analysis, multilevel modeling, dimension reduction, web scraping, and sentiment analysis to provide data-informed insights into complex social problems
- Designed surveys, led online and in-person participant recruitment efforts, and administered surveys to facilitate data collection
- Worked in a cross-discipline team of IT support, business associates, lawyers, researchers, and ethics board members to access large quantities of sensitive/restricted data

**COMMUNICATION**

- Communicated data-informed solutions to social problems in international speaking engagements, news interviews, online magazine publications, and 15 academic journal articles
- Created data visualizations in ggplot, PowerPoint, Excel, Power BI, and an award-winning visualization in Tableau, to communicate results from data analyses
- Designed and led instructional workshops to teach other researchers new tools for online data collection and survey creation
- Led an international editorial team at a well-respected scientific journal to evaluate other scientists' research, communicate areas of improvement, and determine whether work should be published
- Instructed hundreds of university students as a teaching assistant across dozens of courses, including in industrial/organizational psychology, prejudice, applied social psychology, and psychometrics
- Supervised junior researchers in project design, quantitative analyses, and presentation of results, enabling them to develop research skills and meet academic degree requirements

## ADDITIONAL ANALYTIC SKILLS

**RESEARCH DESIGN:** hypothesis development, survey design, online and in-person participant recruitment, web scraping, cross-sectional, experimental, and longitudinal study design, cross-cultural research

**DATA ANALYSIS:** regression, structural equation modeling, path analysis, mediation, moderation, ANOVA, multivariate analysis, longitudinal panel models, latent growth modeling, multilevel/hierarchical linear modeling, factor analysis, principal component analysis, natural language processing, sentiment analysis

**SOFTWARE/LANGUAGES:** R, Python, SQL, Tableau, Microsoft Power BI, Mplus, SPSS, AMOS, MATLAB, Microsoft Excel, Microsoft Powerpoint

## SELECT AWARDS

| | |
|---|---|
| Digital Scholarship Lab Data Visualization Contest Winner | 2021 |
| Scotiabank Graduate Award | 2021 |
| Jack M. Miller Excellence in Research Award- Social Sciences | 2020 |
| Canadian Psychological Association Certificate of Academic Excellence | 2017 |
| Faculty of Social Sciences Graduate Research Writing Award (best MA thesis) | 2017 |

## SELECT COURSES & ADDITONAL TRAINING

| | |
|---|---|
| Learning Machine Learning Deep Dive Workshop | 2021 |
| Mathematics for Machine Leaning (Linear Algebra, Multivariate Calculus, PCA) | 2021 |
| Introduction to Computer Science Harvard, full length course | 2020 |
| Statistical Computing with Python Workshop | 2020 |
| Multivariate Statistics, full length course | 2019 |
| Multilevel Modeling, full length course | 2018 |
| Programming, full length course | 2018 |
| Longitudinal Data Analysis, full length course | 2017 |
| Facilitating Learning in Groups Workshop | 2017 |
| Educational Technologies for Collaborative Learning Workshop | 2017 |
| Valuing Missing Values Workshop | 2016 |
| Diversity in the Classroom Workshop | 2016 |
| Research Methods & Data Analysis, full length course | 2015 |

## VOLUNTEER EXPERIENCE

**Fundraising Volunteer**                                                                 2019-2020
*Women's Place of South Niagara*
- Organized fundraising efforts, retrieved donated items, and delivered them to Women's place to support services for women and children suffering from abuse

**Education Volunteer**                                                                    2010-2016
*AM Cunningham Elementary School*
- Prepared activities to assist children's development and learning, led activities in letter recognition and counting, and assisted in the organization of activity centers to optimize children's learning environment