

Megan Earle, Ph.D. candidate

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ANALYTIC SKILLS

SOFTWARE/LANGUAGES: Python, SQL, R, SPSS, Matlab, Mplus, Atlas.ti, Tableau, Power BI, Microsoft Office

RESEARCH DESIGN/DATA COLLECTION: survey research, study design, hypothesis development, longitudinal studies, experiments, Amazon MTurk, Cloud Research, Qualtrics, web scraping

STATISTICS: regression modeling, multilevel modeling, structural equation modeling, path analysis, longitudinal panel models, latent growth modeling, mediation, moderation, ANOVA, t-tests, chi-square difference tests, multivariate statistics, dimension reduction (e.g., EFA, PCA), text analysis, natural language processing, sentiment analysis

COMMUNICATION: public speaking, grant writing, research reports, literature reviews, data visualization, mentorship

RESEARCH EXPERIENCE

GRADUATE RESEARCHER

2015-present

Brock Lab of Intergroup Processes, Brock University

- Designed surveys for, collected data from, and applied complex statistical methods to analyze data from 30+ quantitative research studies
- Designed and analyzed online experiments to increase favorability toward a new product, finding that the experimental technique increased willingness to consume the product by 13%
- Processed, cleaned, and analyzed data from large international, multi-source datasets (e.g., 70+ countries, data spanning 20+ years) to examine trends over time and across countries
- Incorporated new research strategies and cutting-edge data collection tools into lab protocol to better ensure high-quality data
- Worked in cross-functional teams made up of researchers, computer scientists, business leaders, lawyers, and IT to facilitate new research projects and data-driven insights
- Communicated data-informed behavioral insights in international speaking engagements, news interviews, online magazine publications, and academic journal articles
- Created compelling data visualizations in R, Python, PowerPoint, Excel, Power BI, and an award-winning visualization in Tableau, to communicate results from data analyses

SCIENTIFIC JOURNAL EDITOR

2020-present

Group Processes & Intergroup Relations (Journal)

- Recruited and led an international editorial team to solicit research papers from top researchers in the field, receiving three times the expected number of submissions
- Evaluated research and synthesized feedback from external reviewers to determine and communicate future directions to researchers
- Worked collaboratively to determine which manuscripts should be published at the scientific journal

RESEARCH ASSISTANT

2013-2015

Brock University

- Facilitated data analysis by recruiting and collecting data from diverse participant pools (e.g., domestic students, international students, community members, children)
- Learned and applied a wide array of research tools including eye-tracking technology, LIWC, Connexor, and Adobe Photoshop to generate research stimuli and facilitate data analysis

LEADERSHIP & COMMUNICATION

TEACHING ASSISTANT/COURSE COORDINATOR

2015-present

Brock University

- Instructed hundreds of university students across dozens of courses, including in applied social psychology, organizational/industrial psychology, motivation and emotion, social cognition, and psychological measurement
- Broke down complex statistical techniques, facilitated critical thinking via group discussion, provided writing and statistics assistance, and provided feedback on assignments to facilitate student growth and success

UNDERGRADUATE STUDENT SUPERVISOR

2015-2020

Brock Lab of Intergroup Processes, Brock University

- Designed and led instructional workshops to teach other researchers new tools for online data collection and survey creation
- Supervised junior researchers in project design, qualitative and quantitative analyses, and presentation of results, enabling them to develop strong research skills
- Manage teams of 10+ research assistants, providing them with weekly schedules and training them in proper research techniques to ensure high quality data collection

AWARDS & GRANTS

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

PUBLICATIONS & CONFERENCE PRESENTATIONS

Publications: 11 refereed journal articles (including 30+ individual studies), 2 book chapters, 2 encyclopedia entries, 1 magazine article

Conference Presentations: 10 conference presentations in Canada, United States, United Kingdom, and Spain

Invited Lectures: 2 invited lectures at universities in the United States and Germany

EDUCATION

PhD: Social Psychology , Brock University, St. Catharine's, Ontario	Anticipated August 2021
MA: Social Psychology , Brock University, St. Catharine's, Ontario	October 2017
Honors BA: Psychology , Brock University, St. Catharine's, Ontario	June 2015