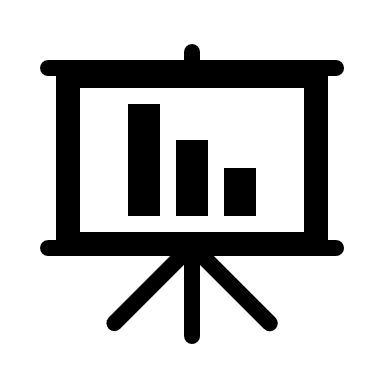
CLAUDIE COULOMBE

[](mailto:claudie.coulombe@outlook.com)Data Analytics, Applied Research, & I-O Psychology

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| claudie.coulombe@outlook.com | 613-983-3054 | [LinkedIn Profile](https://www.linkedin.com/in/claudie-coulombe/) | [GitHub](https://github.com/claudiecoulombe) | [Portfolio](https://claudiecoulombe.github.io/) |

**SUMMARY**

I have three years of experience in data roles within startups and over five years of research experience in non-profit and academic contexts. My work combines Industrial-Organizational Psychology with data analytics to deliver insights that help organizations make better, more informed decisions about their most valuable asset: their people. In the HR tech space, I have developed algorithms, analyses, and reports for assessment companies to support hiring, succession planning, team effectiveness, and individual development. My work has also included psychometrically validating assessment tools, ensuring their reliability, validity, and fairness. Additionally, I have focused on optimizing internal processes by automating workflows and standardizing reporting frameworks, streamlining operations, reducing manual effort, and enhancing the consistency and scalability of deliverables.

**TECHNICAL SKILLS**

**Programming and Querying**: R, SQL (PostgreSQL)

**Data Visualization**: Shiny, Looker, Quarto, Highcharter, ggplot2, Plotly

**Data Analysis**: Data Cleaning & Transformation, Exploratory Data Analysis, T-Tests, ANOVA, Correlations, Chi-Square Tests, Latent Class Analysis, Logistic Regression, Linear Regression, Random Forest, Multilayer Perceptron, Psychometric Analyses

**Other**: Microsoft Office Suite (Excel, Powerpoint, Word, Outlook), Google Suite (Docs, Sheets)

**LANGUAGES**

French – Native; English - Native

**EDUCATION**

**Master's Degree, Industrial-Organizational Psychology**

2020 – 2022 | University of Guelph

* *Research and Statistics Courses*: Research Methods, Multilevel Modeling, Multivariate Statistics, Research Design & Statistics
* *Content Courses*: Recruitment and Selection, Employee Performance, Social Processes in the Workplace, I/O Psychology Consulting, Research Seminar

**Honors’ Bachelor of Arts, Psychology**

2015 – 2019 | McGill University

**WORK EXPERIENCE**

**DATA SCIENTIST - Research and Product Development**

System-3 | Toronto | Jan 2024 - Present

* Led the end-to-end development of 4 metrics for assessing senior leadership candidates, from conceptualization to algorithm design in R and product integration, enabling data-informed hiring decisions.
* Automated the generation of interpretive insights, reducing manual effort by 5 hours per project and improving output consistency.
* Delivered 15+ science training sessions, simplifying technical concepts for diverse audiences to enhance the effective use of the System-3 assessment.
* Redesigned the product’s Leadership Profile categories using statistical techniques to better reflect leadership styles, improving the tool’s client value.
* Conducted trend analyses on 750+ leaders, uncovering patterns to inform a marketing campaign, producing two client-facing articles and a report for leadership.
* Designed and pitched a psychometric study to evaluate the predictive validity and reliability of the System-3 assessment, securing C-Suite approval.
* Spearheaded data initiatives, conducting standard and ad-hoc analyses for internal and external stakeholders.
* Collaborated with software developers to convert prototype code into production-ready algorithms.

**DATA ANALYST - Research and Product Development**

System-3 | Toronto | Oct 2022 – Jan 2024

* Automated workflows, reducing client project time by 240 hours annually, cutting debrief preparation time by 80%, and reducing presentation development time by 50%.
* Optimized algorithms to minimize manual intervention and errors, improving accuracy and operational efficiency.
* Enabled data-informed decision-making by creating reports, dashboards, and impact tests, and delivering client-facing materials for 15+ major clients, including custom analyses and recommendations for hiring, succession planning, and talent development.
* Designed and implemented a psychometrics program and evaluation tool to assess the scientific rigor of assessment tools, supporting continuous improvement.
* Collaborated cross-functionally to develop and integrate new data visualizations and insights into products, enhancing client satisfaction.
* Produced technical manuals and infographics to simplify complex scientific concepts for internal teams and external stakeholders.
* Used various statistical techniques in R and Excel for individual and team-level analyses.
* Enhanced data practices by establishing reproducibility guidelines and implementing version control.
* Managed 2 contractors to deliver projects on time and within quality standards.

**RESEARCH ASSISTANT – Data and Psychometrics**

Nugget.ai | Toronto | Apr 2021 – Aug 2022

* Led studies evaluating the reliability and validity of a selection tool, increasing confidence in its precision and accuracy while identifying areas for improvement.
* Automated data cleaning and analysis workflows, enhancing efficiency and replicability across projects.
* Drafted an article for publication to strengthen Nugget.ai's credibility and visibility.
* Created training and onboarding materials to support internal knowledge sharing.
* Conducted statistical analyses in R and Excel to support psychometric evaluations and research findings.

**CONSULTANT**

Organization and Management Solutions | Guelph | Sept 2020 – June 2022

*Training and Development*

* Trained 6 consultants on how to conduct structured behavioural interviews, their benefits in reducing bias and improving accuracy and fairness in hiring, and small group facilitation techniques.
* Led 3 day-long training sessions consisting of small-group workshops to train a total of 45 managers on the use of structured behavioural interviews.
* Facilitated 2 workshops designed to train managers on structured behavioral interview techniques, including leading small group activities and discussions, evaluating participants, and providing personalized developmental feedback.
* Mentored a junior consultant through the OMS Mentorship Program.

*Personnel Selection*

* Led a team of 4 consultants in developing an institutional methodology for reviewing hiring assessment tools for adverse impact, test bias (differential validity and prediction) and fairness.
* Developed a structured interview guide assessing key soft skills for an IT role based on a job analysis.

*Knowledge Translation*

* Synthesized institutional knowledge and resources to create a manual to prepare future consultants to be lead facilitators for structured interview training sessions with managers.
* Planned, researched, and drafted a business case with three colleagues to be submitted for publication.
* Led a team of 2 consultants in the creation of a toolkit containing actionable, science-based tips on how topics related to employee well-being.
* Created a second toolkit containing actionable steps for how to support employee work-life balance by reviewing and translating knowledge from the research and practice literature.

*Diversity, Equity, and Inclusion*

* Developed materials for focus groups designed to gather feedback on a leadership competency framework promoting gender equity; assisted in gathering feedback for focus groups.
* Performed a thematic analysis of qualitative data collected from interviews with senior leaders to support a project aiming to create a leadership competency framework promoting gender equity.

**TEACHING ASSISTANT – Department of Psychology**

University of Guelph | Guelph | Sept 2020 – May 2022

* Served as a teaching assistant for 3 undergraduate classes (Intro to Psychology twice, Historical and Critical Perspectives on Psychology).
* Graded and provided feedback for 400+ student essay.
* Facilitated in-person and virtual discussions and evaluated participation.
* Corresponded with and assisted students over email.

**LAB MANAGER – Lab for Organizational Leadership Research**

Lazaridis School of Business and Economics | Waterloo | Sept 2019 – Sept 2020

* Conducted literature reviews of 250+ research articles to synthesize research on leadership and employee behavior.
* Designed and implemented 4 research studies using various methodologies, including Q-sort, cross-sectional, time-lagged, and longitudinal designs.
* Developed online surveys using Qualtrics, drawing on best practices to minimize attrition and enhance data quality.
* Managed data collection across online platforms (e.g., CloudResearch, MTurk), tracking participation, troubleshooting issues, and assigning compensation.
* Cleaned and prepared datasets in Excel, ensuring reproducibility through detailed documentation
* Validated materials for an intervention intended to increase the centrality of humility in leader prototypes (e.g., substantive validity).
* Developed training guides for research tools, trained and onboarded undergraduate and graduate research assistants.
* Contributed to academic knowledge through authorship and editing of journal manuscripts.

**RESEARCH AND EVALUATION ASSISTANT**

Stella’s Place | Toronto | May 2019 – Aug 2019

* Evaluated the effects of a modified Dialectical Behavior Therapy program on young adults’ use of effective coping skills, resilience, and self-efficacy.
* Reviewed literature, cleaned and merged datasets, analyzed data on Excel and SPSS, performed qualitative coding, drafted a research article for publication.
* Prepared the annual Research and Evaluation Report, documenting progress on KPIs and research initiatives.

**RESEARCH ASSISTANT – Lockwood Lab, Department of Psychology**

University of Toronto | Toronto | Jan 2019 – Aug 2019

* Contributed to studies investigating the nature and effects of social comparisons.
* Scheduled participants, administered study procedures to 91 dyads for an experimental study, and to 106 participants for a longitudinal study.
* Reviewed literature for studies on athletic role models and the operationalization of closeness, researched, coded, and cleaned data for 950+ survey responses.

**JUNIOR EVALUATION ANALYST**

Correctional Services Canada | Ottawa | May 2018 – Aug 2018

* Contributed to an evaluation of chaplaincy services provided in federal correctional institutions in Canada.
* Developed surveys, liaised with stakeholders and subject matter experts, entered and validated data for 500+ inmate surveys, developed a thematic analysis codebook and performed qualitative coding.

**RESEARCH ASSISTANT – Lydon Lab, Department of Psychology**

McGill University | Montreal | Sept 2016 – Jan 2018

* Contributed to various social-cognitive psychology research projects in Honours student and research assistant roles.
* Performed literature searches, created online surveys on Qualtrics, programmed a reaction-time task using Inquisit, developed a 9-item self-presentation scale, recruited and scheduled participants for in-lab studies, administered study procedures to 90+ participants.
* Used SPSS to clean and analyze data, performed qualitative coding of study transcripts.
* Developed and presented research posters at conferences, prepared two thesis manuscripts.

**PUBLICATIONS AND CONFERENCE POSTERS**

Cole, A., **Coulombe, C**., Gilbert, C., Hausdorf, P. A., & Power, J., (2024). Rogers communications: A leadership opportunity? In *Sage Business Cases*. SAGE Publications, Ltd., <https://doi.org/10.4135/9781071921586>

Liang, L. H., **Coulombe, C**., Skyvington, S., Brown, D. J., Ferris, D. L., & Lian, H. (2022). License to retaliate: Good deeds as a moral license for misdeeds in reaction to abusive supervision. *Human Performance, 35*(2), 94-112. <https://doi.org/10.1080/08959285.2022.2032069>

Liang, L. H., **Coulombe, C**., Brown, D. J., Lian, H., Hanig, S., Ferris, D. L., & Keeping, L. M. (2022). Can two wrongs make a right? The buffering effect of retaliation on subordinate well-being following abusive supervision. *Journal of Occupational Health Psychology, 27*(1), 37–52. <https://doi.org/10.1037/ocp0000291>

**Coulombe, C**., Liang, L. H., & Brown, D. J. (2021). Third-party reactions to supervisor mistreatment through an identity theory lens. *Canadian Psychology/Psychologie Canadienne, 62*(2), 195–203. <https://doi.org/10.1037/cap0000266>

**Coulombe, C**., Rattelade, S., McLaughlin, M., & Choi, J. (2020). A peer-clinician approach to the delivery of dialectical behavior therapy targeted to young adults in a community mental health setting*. Canadian Journal of Community Mental Health, 39*(2), 65-69.

**Coulombe, C**., & Spence, J. (2022, June). Investigating the “we” in me: Within-person fluctuations in organizational identification [Conference poster]. Canadian Psychological Association Annual National Convention, Calgary, Canada.

Wang, L., Liang, L., Brown, D., & **Coulombe, C**. (2022, June). An empirical redundancy test between workplace deviance and negative gossip constructs. [Poster]. Submitted to the Canadian Psychological Association 2022 Annual National Convention, Calgary, Canada.

**Coulombe, C.,** Liang, L., Brown, D., & Brunner, L. (2020, July–August). Introducing humility in leadership: Identifying humble leadership passages for leader prototype interventions [Conference poster]. 81st Canadian Psychological Association Annual National Convention, Montreal, Canada.

**Coulombe, C.,** Auger, E., Shin, G., Engstrom, H., & Lydon, J. (2018). Move in my direction: The effect of relationship status on approach and avoidance biases to attractive potential dating partners. [Poster] 2018 International Congress of Applied Psychology. Montreal, Canada.

**Coulombe, C.,** Cohen, A., Auger, E, & Lydon, J. (2017). Not presenting our best self: How relationship motivation and executive control regulate self-presentation to attractive alternatives. [Poster] Arts Research Internship Award, McGill University, Montreal, Canada.

**Coulombe, C.,** Engstrom, H., Auger, E., & Lydon, J. (2017). The paradoxical effect of relationship identification on relationship satisfaction. [Poster]. McGill University departmental poster session, Montreal, Canada.

**AWARDS AND SCHOLARSHIPS**

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| 2021 | Dean’s Scholarship (*$2500)*  Ontario Graduate Scholarship (*$15000)*  University of Guelph Board of Graduate Studies Research Scholarship (*$2000)* |
| 2020 | Social Sciences and Humanities Research Council (SSHRC) – Joseph-Armand Bombardier Canada Graduate Scholarships Program Master’s Scholarship (*$17500)*  University of Guelph Dean’s Tri-Council Graduate Scholarship (*$5000*)  Canadian Society of Industrial/Organizational Psychology Best Poster Award: Third Place (*$100)* |
| 2019 | First Class Honours in Psychology  Pelletier Prize *($920)* |
| 2017 | Arts Research Internship Award (*$4000)*  Mary Coppin Scholarship (*$3000)* |