Willis Klein

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SUMMARY

Behavioral Scientist with 6 years of experience in applying mixed-methods research, grounded theory, and statistical modeling to solve complex problems in micro-mobility, transportation, mental-health, and academia. Expert in experimental design and statistical modeling (R, JAMOVI, JASP). Experienced in cross-functional collaboration and turning complex analyses into clear decisions. Produced deliverables that received international media attention, fostering the ability to communicate clearly about scientific topics with the public. Successfully mentored over 10 honors students, many of whom were admitted to top graduate programs. Experience communicating complex ideas with people from diverse backgrounds

EXPERIENCE

PhD Candidate   09/2021 – Present
McGill University
- Led an interdisciplinary team of junior researchers in studying social-cognitive processes, including gaslighting in romantic relationships, the effects of intranasal oxytocin, and computational models of cognitive processes. Conducted data analysis and visualization for these projects, with findings published in high-impact academic journals and presented at international conferences.
- Authored 4 peer-reviewed papers (3 additional papers in progress), and delivered poster presentations and conference talks at national and international academic conferences
- Mentored multiple undergraduate honors students annually, with many admitted to their top-choice graduate programs.
- Co-developed and taught advanced psychology courses, including Statistics for Behavioral Sciences, training thousands of undergraduate students.
- Awarded $127,600 + in competitive grants, scholarships, and awards, including a $83,334 grant from FRQ-SC

Data Science Intern   05/2025
Lyft Urban Solutions, CitiBike
- Identified gap in the market for CitiBike users (32% of CitiBike users are women; women take 25-35% of rides)
- Using multivariate statistical and geographical analyses identified local and seasonal variations in market gaps
- Developed a data drive argument that the market gap represent distinct use cases for male vs. female customers
- Proposed future research and marketing directions to help reduce this market gap

Research Assistant   02/2018 – 09/2021
University of Toronto, multiple labs
- Ensured high data integrity for analysis by collecting, cleaning, and recording behavioural data from human subjects during controlled experiments
- Coordinated with a multidisciplinary research team to refine study methods and debug code, enhancing data accuracy and participant experience
- Reduced error rates and enhanced data quality in controlled experiments by identifying and resolving technical and methodological issues during pilot phase testing
- Produced actionable insights and recommendations that contributed to the success of grant submissions, enhancing project design and funding potential
- Led a qualitative study exploring gaslighting, resulting in one of the top 10 most cited papers in the journal of personal relationships that year and international media attention, demonstrating high academic and real-world relevance.

Board Member   01/2017 – 06/2020
Mapping the Mind
- Coordinated and organized an annual academic conference at the University of Toronto, bringing together experts in mental health and pharmacology.
- Managed event logistics and organized satellite fundraising events to support conference activities and initiatives.

SKILLS

Technical: R, JAMOVI, JASP, Microsoft office suite
Methods: regression, muti-level modelling, structural equation modelling, exploratory / confirmatory factor analysis, multiple imputation by chained equation, ANOVA, qualitative data analysis (grounded theory)
Languages: English (native), French (basic)

EDUCATION

PhD in Experimental Psychology   2021 – Present
McGill University, Montreal, QC
Bachelor of Science in Psychology with high distinction   2016 – 2020
University of Toronto, Toronto, ON