Marlie Tandoc

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> **Ever curious PhD candidate with 6+ years of research on cognitive science and human behavior;**
> Seeking an internship to work with a team and grow as a researcher who delivers innovative solutions

SKILL SUMMARY

Start-To-Finish Research: Designed and executed 30+ research projects; identified questions, guided 5000+ participants through lab tasks, analyzed/visualized data, presented insights (9 publications, 12 conferences)

Research Methods: Lab experiments (online and in-person), Survey design and questionnaires, Usability studies, A/B Test, Qualitative coding, Semi-structured interviews

Research Tools: R , JavaScript, Python, SQL, Mechanical Turk, Git, Qualtrics, Salesforce

Statistical Analysis: Regression, Correlation, Multilevel Models, ANOVA, Significance Testing

EDUCATION

PhD in Psychology | University of Pennsylvania 4.00 GPA   *2019 - MAY 2024 (EXPECTED GRADUATION)*

BS in Psychology Research, Media Studies | University of Toronto 3.87 GPA   *2018*

RESEARCH EXPERIENCE

PhD Researcher in Psychology | University of Pennsylvania   *2019 - PRESENT, PHILADELPHIA, PA*

- Designed and executed 10+ experiments (decision-making games, usability studies, surveys) to test how human decisions are susceptible to biases
  - Integrated user needs into UI design decisions by analyzing qualitative (survey, interviews) and quantitative data (time spent on web pages, A/B testing progress bars) to evaluate web features
  - Analyzed/visualized data in R (regression, correlation, multilevel modeling) from 2000+ participants
  - Communicated findings at one of the world's biggest science conferences (30 000+ scientists, industry professionals, and journalists) as a presentation format rarely awarded to students
- Generated an experiment idea that was awarded $200 000+ to apply machine learning to mindread what decision a person will make based on their brain activity
  - Developed a reproducible analysis pipeline (*Git*, *Bash*, *Python*) to restructure and analyze complex brain data, saving 50+ hours of researcher time per month and saving lab/company financial resources
- Translated complex research results into shareable stories to non-expert audiences (e.g. taught a high school class on how AI is used to mindread, gave talks cross-functionally and across organizations)

Data Team Member | Mind Sciences Diversity Initiative   *MAR 2022 - PRESENT, PHILADELPHIA, PA*

- Worked as a team to design surveys and deliver data-driven insights (slidedecks, reports in RMarkdown) that informed business decisions on what interventions help POC/ LGBTQ+ students best succeed in science

Researcher | Penn Data Science Group   *FEB - APR 2022, PHILADELPHIA, PA*

- Operated within a strict timeline and limited resources to curate/analyze data to build a product (heatmap of air quality in Philadelphia) and worked with clients to translate their business needs into research plans

Research Manager & Undergraduate Researcher | University of Toronto   *2016 - 2019, TORONTO, CA*

- Managed 20+ researchers while coordinating data collection across multiple organizations/remote test sites
- Designed and deployed semi-structured recruitment surveys (online and over the phone) to 1000+ families to collect demographic, health, and education data
- Coded and summarized 20 000+ pages of rich qualitative data from 291 teenagers (probation reports, large scale surveys) and delivered actionable insights to Canada's largest mental health hospital
- Collaborator on a team of engineers/designers to design experiments/collect data on 6 studies that identified how air quality impacts cognition (including A/B test) leading to 2 publications (cited by 60+ groups)