

Luis Ledesma

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in [luisledes](https://luisledes.com)

EXPERIENCE

Dalla Lana School of Public Health, Research Assistant

Toronto, ON

May 2022 – current

- Studied perception of risk and its relationship to vaccine uptake for a cohort of post-secondary students at the University of Toronto.
- Employed statistical approaches accounting for repeated measures and attrition, expected to culminate in the production of a manuscript and a poster presentation.

University of Toronto, Teaching Assistant, Department of Statistics

Toronto, ON

Jan. 2022 – current

- Led tutorials, hosted office hours and held guest lectures in courses ranging from introductory to upper-year level Statistics.
- Reinforced students' learning using coding demonstrations in R and RMarkdown.

Baycrest Health Sciences, Practicum Student

Toronto, ON

Oct. 2021 – Jun. 2022

- Analyzed the impact of irregular testing dates of online brain health assessments taken over time by older adults using GEEs and mixed-effects models.
- Extended existing longitudinal analyses by modelling both the assessment intensity and cognitive measures to account for irregular observations and missing data.

United Nations Population Fund - UNFPA, Consultant

Lima, Peru

Mar. 2021 – Jul. 2021

- Studied and accounted for the effect of COVID-19 on maternal mortality ratio (MMR) trends in Peru as part of a multidisciplinary research team.
- Developed spline and time series models to forecast the MMR trends at the national and provincial level.

CDC Peru - Ministry of Health, Research Assistant

Lima, Peru

Mar. 2020 – Aug. 2021

- Developed epidemiological models for the study of the COVID-19 outbreak in Peru.
- Automated data cleaning procedures to use RMarkdown for daily report generation and data visualization using Shiny.

LEADERSHIP AND EXTRACURRICULARS

Dalla Lana School of Public Health, Student-led conference content sub-committee

Oct. 2022 – Nov. 2022

- Helped curate contents covered in the conference, along with script preparation.

CDC Peru - Ministry of Health, Content Coordinator and Teaching Assistant

Jun. 2021 – Jul. 2021

- Taught content based on RECON (R Epidemics Consortium) learn, a platform based on reproducibility in R, focused on visualization and data wrangling using Tidyverse.
- Held office hours and personalized tutoring for students after content delivery.

AWARDS

McGill University

- Edward Rosenthall Memorial Prize in Mathematics
- ISM Undergraduate Summer Scholarship

EDUCATION

University of Toronto, M. Sc. in Biostatistics

Toronto, ON

Thesis: *Intercept estimation of semi-parametric joint models in the context of longitudinal data subject to irregular observations*

Sept. 2021 – Sept. 2023
(Expected)

Northwestern University, Graduate coursework in Mathematics

Evanston, IL

Sept. 2017 – Jun. 2019

McGill University, B. Sc. in Honours Mathematics

Montreal, QC

Research project: *Eigenvectors of Elements in $Z[SU(2)]$*

Sept. 2013 – May 2017

Skills

- **Programming:** R (Tidyverse, Shiny), Python, SAS, MATLAB, SQL, Mathematica
- **Software Tools:** Git, Jupyter, R Markdown, Netlogo, LaTeX, Microsoft Office