

# Lindsay Katz

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## EDUCATION

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**Masters of Statistics, University of Toronto** 2022  
Relevant courses: Mathematical Statistics I & II, Methods of Applied Statistics I & II, Toronto, Canada  
Categorical Data Analysis, Economic Applications of Machine Learning

**Bachelor of Arts and Sciences, University of Guelph** 2020  
Specialization in Mathematical Science and International Development Guelph, Canada

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## RESEARCH EXPERIENCE

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**Graduate Research Assistant, Dr. Monica Alexander** present  
University of Toronto

- Working with data from Facebook's advertising platform to research demographic variation in short-term migration patterns across Canada and the US
- Performed data cleaning, visualization and analysis in R
- Computed summary metrics using statistical tools to inform conceptual framework of findings

**Graduate Research Assistant, Dr. Rohan Alexander** present  
University of Toronto

- Developing a new, comprehensive, publicly available database of all proceedings of the Australian parliamentary debates
- Built four R scripts to parse XML versions of Hansard from 1998 to 2022, each producing a tidy, complete CSV file for each sitting day which is usable for large-scale text analysis

**Undergraduate Research Assistant, Dr. Julie Horrocks** 2020  
University of Guelph

- Developed 14 packages of learning materials with complimentary exercises for a new fourth-year statistics course with data science applications
- Topics covered included web-scraping, data wrangling and visualization using Tidyverse, and programming fundamentals such as how to write loops and functions

**Independent Research Study, Dr. Ryan Briggs** 2020  
University of Guelph

- Analyzed Afrobarometer survey data to investigate how identity factors interact to shape lived poverty in Africa, both over time and across countries
- Performed data cleaning, visualization, and regression analysis in R
- Co-produced research paper, "An exploratory analysis of lived poverty in Africa"

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## WORK EXPERIENCE

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**Developer, Investigative Journalism Foundation** present

- Developing and implementing data validation tools for 8 databases using Python
- Working with team of developers and reporters with the goal of improving database quality and consistency, in a way which can be applied to data being scraped in real time

**Statistical Consultant, Overseas Development Institute** 2022

- Designed, executed, and summarized empirical analysis for ongoing research project on development spending and state power
- Performed data sourcing, cleaning, visualization, and correlation analysis
- Provided clear guidance and support to authors throughout process

**Statistics Tutor, Tutors at Guelph** 2019

- Tutored students in introductory undergraduate statistics courses
- Helped to improve students' academic confidence, understanding, and exam performance

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## PRESENTATIONS

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### **Digitization of the Australian Parliamentary Debates (1998-2022), with Rohan Alexander**

- (Poster) 04 November 2022, Toronto Political Behaviour Workshop, University of Toronto
- 18 November 2022, Toronto Data Workshop, University of Toronto
- (Invited, conference canceled due to strike) 07 December 2022, Text Analysis Across Domains, UC Berkeley
- 10 February 2023, Innovative Datasets for Research Workshop, University of Western Ontario

### **Measuring short-term mobility in North America using Facebook data, with Monica Alexander**

- (Upcoming, poster) 12 April 2023, Population Association of America Annual Meeting

### **Who are the poorest? An exploratory analysis of lived poverty in Africa, with Ryan Briggs**

- 21 November 2019, African Studies Association Conference, Boston MA

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## DATASETS

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Katz, Lindsay, & Alexander, Rohan. (2022). A new, comprehensive database of all proceedings of the Australian Parliamentary Debates [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.7336076>

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## VOLUNTEER EXPERIENCE

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### **Master's Student Co-Representative, University of Toronto Graduate Students' Union**

2022

- Served as a point of contact between all Master's students and the Graduate Student Union
- Organized the creation and distribution of departmental merchandise

### **Volunteer Coordinator - Combining Two Cultures Conference, University of Guelph**

2019

- Planned and executed a two-day conference at the University of Guelph focused on the value of interdisciplinary education

### **Volunteer Note Taker, University of Guelph Student Accessibility Services**

2019

- Provided detailed lecture notes in introductory programming and upper-level statistics courses for students enrolled in Student Accessibility Services

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## GRANTS AND AWARDS

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- Don Posterski Memorial Travel Grant (2019)
- University of Guelph Dean's Honour List (2016-2020)
- University of Guelph Entrance Scholarship (2016)
- Duke of Edinburgh Bronze and Silver Awards (2014-2016)

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## SKILLS

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R | RMarkdown | LaTeX | Quarto | Data visualization | Data cleaning | Stan | Academic writing  
Tidyverse | R Shiny | Github