

# Rohan Alexander

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<https://rohanalexander.com>

## Academic appointments

- University of Toronto
  - ▶ Assistant Professor, Information (51%) & Statistical Sciences (49%), July 2020 - *current*
  - ▶ Director, Technical Skills Curriculum & Instruction, Data Sciences Institute, July 2021 - *current*
  - ▶ Faculty Affiliate, Schwartz Reisman Institute for Technology and Society, August 2020 - *current*
  - ▶ Associate Director, Canadian Statistical Sciences Institute (CANSSI) Ontario, September 2021 - *current*
  - ▶ Senior Fellow, Massey College, September 2021 - September 2024
  - ▶ Co-lead, Data Sciences Institute Thematic Program in Reproducibility, November 2021 - October 2024
  - ▶ Post-doctoral Fellow, Information, supervised by Kelly Lyons, July 2019 - July 2020

## Education

- Australian National University
  - ▶ PhD (Economics), February 2015 - December 2019
    - Dissertation title: *Essays on Applied Historical Labour Economics*.
    - Committee: John Tang (chair), Martine Mariotti, Tim Hatton, and Zach Ward.
  - ▶ M. Economics, Australian National University, February 2012 - November 2012
- University of Queensland
  - ▶ B. Economics (Hon IIA), February 2004 - November 2008
    - Honours thesis: *On Common Knowledge and Nash Equilibria*.

## Book

- **Alexander, Rohan**, 2023, *Telling Stories with Data*, Chapman and Hall/CRC.

## Edited book

- Kennedy, Lauren, **Rohan Alexander**, Yajuan Si, and Andrew Gelman (editors), *Multilevel Regression and Poststratification: A Practical Guide and New Developments*, (accepted by Cambridge University Press in July 2021, expected publication in 2026).

## Peer-reviewed publications

- De Angelis, Inessa, and **Rohan Alexander**, 2025, "What are Canadian Members of Parliament doing on Bluesky?", *Canadian Journal of Political Science*, <https://doi.org/10.1017/S0008423925100619>.
- **Alexander, Rohan** and Timothy Hatton, 2025, "The making of a nation: Who voted for the Australian Federation?", *Asia-Pacific Economic History Review*, <https://doi.org/10.1111/aehr.70008>.
- Katz, Lindsay, and **Rohan Alexander**, 2023, "Digitization of the Australian Parliamentary Debates, 1998-2022", *Scientific Data*, 10, 567, <https://doi.org/10.1038/s41597-023-02464-w>.
- Collins, Annie, and **Rohan Alexander**, 2022, "Reproducibility of COVID-19 pre-prints", *Scientometrics*, 4 July, <https://doi.org/10.1007/s11192-022-04418-2>.
- Ferguson, Sharon, Paula Akemi Aoyagui, **Rohan Alexander**, Anastasia Kuzminykh, 2022, "A Thematic Comparison of Human and AI Explanations of Sexism Assessment", *Human Centered AI Workshop at NeurIPS*.
- **Alexander, Rohan**, and Kelly Lyons, 2020, "Barriers to Service Innovation Using Data Science", in *Advances in the Human Side of Service Engineering*, J. Spohrer and C. Leitner (Eds.): AHFE 2020, AISC 1208..

- **Alexander, Rohan**, and Zach Ward, 2018, “Age At Arrival and Assimilation In The Age Of Mass Migration”, *The Journal of Economic History*, 78(3), pp. 904-937, <https://doi.org/10.1017/S0022050718000335>.

## Other publications

- Horton, Nicholas, **Rohan Alexander**, Aneta Piekut, and Colin Rundel, 2022, “Editorial: The Growing Importance of Reproducibility and Responsible Workflow in the Data Science and Statistics Curriculum”, *Journal of Statistics and Data Science Education*, <https://doi.org/10.1080/26939169.2022.2141001>.

## Under submission

- **Alexander, Rohan**, Luca Carnegie, Nathalie Moon, 2025, “Self-reported LLM usage and outcomes on a data science project: Evidence from two undergraduate courses”, R&R at *Journal of Statistics and Data Science Education*.
- Brodeur, Abel, David Valenta, Alexandru Marcoci, Juan P. Aparicio, Derek Mikola, Bruno Barbarioli, **Rohan Alexander**, ..., 2025, “Comparing Human-Only, AI-Assisted, and AI-Led Teams on Assessing Research Reproducibility in Quantitative Social Science”, R&R at *PNAS*, draft available: <https://econpapers.repec.org/paper/zbw14rdps/195.htm>.
- Lopez-Miranda, Ana Elisa, Tiffany Timbers, and **Rohan Alexander**, 2025, “Prompting the Professoriate: A Qualitative Study of Instructor Perspectives on LLMs in Data Science Education”, under review at *Harvard Data Science Review*.

## Pre-prints

- **Alexander, Rohan**, Lindsay Katz, Callandra Moore, Zane Schwartz, 2023, “Evaluating the Decency and Consistency of Data Validation Tests Generated by LLMs”, <https://arxiv.org/abs/2310.01402>.
- Chiu, Ke-Li, Annie Collins, and **Rohan Alexander**, 2022, “Detecting Hate Speech with GPT-3”, *arXiv*, 24 March, <https://arxiv.org/abs/2103.12407>.
- **Alexander, Rohan**, and Monica Alexander, 2021, “The Increased Effect of Elections and Changing Prime Ministers on Topics Discussed in the Australian Federal Parliament between 1901 and 2018”, *arXiv*, 17 November, <https://arxiv.org/abs/2111.09299>.
- Chiu, Ke-Li, and **Rohan Alexander**, 2021, “On consistency scores in text data with an implementation in R”, *arXiv*, 13 January, <https://arxiv.org/abs/2101.05225>.
- Hodgetts, Paul A., and **Rohan Alexander**, 2020, “cesR: An R package for the Canadian Election Study”, *SocArXiv*, 3 September, <https://osf.io/preprints/socarxiv/a29h8/>.

## R packages

- **Alexander, Rohan**, and Paul A. Hodgetts, 2021, *AustralianPoliticians*.
- Hodgetts, Paul A., and **Rohan Alexander**, 2021, *cesR*.
- **Alexander, Rohan**, and A Mahfouz, 2021, *heapsofpapers*.

## Grants<sup>1</sup>

- Cohere Labs Research Grant Program, September 2025 - December 2025
  - ▶ Project: “Can LLMs Perform Data Analysis?: Developing an Efficient and Effective Evaluation Methodology to Assess The Capabilities of LLMs to Perform Data Analysis Tasks”
  - ▶ Funding: \$1,000
  - ▶ PI: **Rohan Alexander**.
- SSHRC Partnership Grant–Stage 2, April 2025 - March 2032
  - ▶ Project: “The Political Accountability, Transparency, and Representation Oversight Network”
  - ▶ Funding: \$2,499,979
  - ▶ Investigators:
    - Director: Christopher Cochrane.
    - Co-director: **Rohan Alexander**.
    - Co-investigators: Angela Misri, April Lindgren, Harold Jansen, Holly A. Garnett, Jacob Robbins-Kanter, Laks V.S. Lakshmanan, Lisa M. Birch, Lisa Young, Michelle Alexopoulos, Monica Alexander, Nicole S. Blanchett, Robert

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<sup>1</sup>PI means principal investigator. All amounts are Canadian dollars unless otherwise mentioned.

- Schertzer, Sara J. Bannerman, Semra Sevi, Shurui Zhou, Sophie Borwein, Tiffany A. Timbers, Vincent Arel-Bundock, Yannick Dufresne, Zachary T. Taylor, and Zane Schwartz.
- NSERC Alliance Grant and Mitacs Accelerate Internships, February 2025 - December 2029
    - ▶ Project: “Novel Statistical and Machine Learning Algorithms for Analysis of Canadian Political Donations and Lobbying Data”
    - ▶ Funding: \$718,129 (NSERC) and \$800,000 (Mitacs)
    - ▶ Investigators:
      - PI: **Rohan Alexander**.
      - Co-PI: Laks Lakshmanan.
      - Collaborators: Shurui Zhou, Jesse Gronsbell.
  - University of Toronto, Data Sciences Institute, Catalyst Grant, February 2025 - January 2026
    - ▶ Project: “Automated LLM-based Pipelines to Improve Code Quality in the Social Sciences”
    - ▶ Funding: \$100,000
    - ▶ Investigators:
      - PI: **Rohan Alexander**.
      - Co-PIs: Monica Alexander and Chris Maddison.
  - Mitacs Business Strategy Internship, January 2025 - December 2025
    - ▶ Project: “Open by Default”
    - ▶ Funding: \$150,000 (delivered through paid internships)
    - ▶ Investigators:
      - Supervisor: Christopher Cochrane.
      - Co-supervisor: **Rohan Alexander**.
  - SSHRC Partnership Grant–Stage 1, May 2024 - September 2024
    - ▶ Project: “The Political Accountability, Transparency, and Representation Oversight Network”
    - ▶ Funding: \$19,982
    - ▶ Investigators:
      - Director: Christopher Cochrane.
      - Co-director: **Rohan Alexander**.
  - SSHRC Partnership Development Grant, March 2024 - March 2026
    - ▶ Project: “Transparency in Governance: Enhancing Data Integrity for Analyzing Conflicts of Interest and Lobbying in Canadian Politics”
    - ▶ Funding: \$172,511
    - ▶ Investigators:
      - Director: **Rohan Alexander**.
      - Co-director: Zane Schwartz.
      - Co-investigators: Holly Ann Garnett, Semra Sevi.
      - Collaborators: April Lindgren, Chris Cochrane, Jacob Robbins-Kanter, Randy Besco.
  - Open Philanthropy, April 2024 - June 2025
    - ▶ Project: “Benchmarking LLM agents on real-world tasks: Reproducibility”
    - ▶ Funding: \$174,112 USD (~\$235,342 CAD, as at 26 February 2024)
    - ▶ Investigators:
      - PI: Abel Brodeur
      - Co-PIs: Alexandru Marcoci, and **Rohan Alexander**.
  - University of Toronto, Data Sciences Institute, Seed Funding for Methodologists Grant, February 2024 - July 2024
    - ▶ Project: “A methodological approach to automatically detect and improve issues in data science code with LLMs”
    - ▶ Funding: \$10,000
    - ▶ PI: **Rohan Alexander**.
  - University of Toronto, Data Sciences Institute, Computational & Quantitative Social Sciences Grant, January 2024 - December 2024
    - ▶ Project: “Harmonizing Algorithms and Culture: Reconstructing Spotify’s Danceability Metric to Explore the Algorithmic Rendering of Musical Style and Taste”
    - ▶ Funding: \$10,000

- ▶ PI: **Rohan Alexander**.
- SSHRC Partnership Engage Grant, September 2023 - August 2025
  - ▶ Project: "Using machine learning to resolve data challenges to improve our understanding of Canadian lobbying activity"
  - ▶ Funding: \$24,938
  - ▶ PI: **Rohan Alexander**.
  - ▶ Partner organization: Investigative Journalism Foundation of Canada
- Mitacs Accelerate, July 2023 - June 2026
  - ▶ Project: "Follow the Money: Tracking the Influence of Lobbyists in Canada"
  - ▶ Partner organization: Investigative Journalism Foundation of Canada
  - ▶ Funding: \$426,666 (Mitacs: \$235K, IJF: \$192K) (Mitacs funding delivered through paid internships)
  - ▶ Investigators:
    - Supervisor: **Rohan Alexander**.
    - Co-Supervisor: Christopher Cochrane, Raymond Ng.
- University of Toronto, Data Sciences Institute, Catalyst Grant, February 2023 - January 2024
  - ▶ Project: "Providing data to improve representation by public officials"
  - ▶ Funding: \$100,000
  - ▶ Investigators:
    - Named PI: Peter Loewen
    - Co-PIs: **Rohan Alexander**, Aya Mitani, and Elena Tuzhilina.
- Canadian Statistical Sciences Institute (CANSSI) Ontario, Data Access Grant, January 2023
  - ▶ Project: "Developing a large-scale lobbying and political donations dashboard to foster access to and interdisciplinary research on democratic accountability and political donations"
  - ▶ Funding: \$5,000
  - ▶ Co-PIs: **Rohan Alexander** and Chris Cochrane.
- Australian Research Council (ARC), Discovery Projects, January 2023 - December 2025
  - ▶ Project: "Australian Parliamentary Speech: How Deliberative? How Representative?"
  - ▶ Funding: \$287,146 AUD
  - ▶ Investigators:
    - Chief Investigators: Marija Taflaga and Keith Dowding.
    - Partner Investigators: Kenneth Benoit and **Rohan Alexander**.
- University of Toronto, Data Sciences Institute, Data Access Grant, November 2022 - November 2023
  - ▶ Project: "Developing a large-scale lobbying and political donations dashboard to foster access to and interdisciplinary research on democratic accountability and political donations"
  - ▶ Funding: \$9,993
  - ▶ Co-PIs: **Rohan Alexander** and Chris Cochrane.
- SSHRC Connection Grant, October 2022 - September 2024
  - ▶ Project: "Follow the money: Mobilizing Canadian political donations data"
  - ▶ Funding: \$50,000
  - ▶ Investigators:
    - PI: **Rohan Alexander**.
    - Co-investigators: Jacob Robbins-Kanter, Wing Cheung Michael Wong, and Zane Schwartz.
- SSHRC Partnership Development Grant, June 2022 - June 2024
  - ▶ Project: "Follow the Money: Donors, Donations, and Parties in Canadian Politics"
  - ▶ Funding: \$169,855
  - ▶ Investigators:
    - PI: Christopher Cochrane.
    - Co-applicant: Harold Jansen, Jacob Robbins-Kanter, Michael Pereira, Randy Besco, **Rohan Alexander**, Michael Wing-Cheung Wong, and Zane Schwartz.
- Mitacs Accelerate, June 2022 - November 2022
  - ▶ Project: "Follow the Money: Investigating Political Donations in Canada"
  - ▶ Partner organization: Investigative Journalism Foundation of Canada

- ▶ Funding: \$48,000 (delivered through paid internships)
- ▶ Co-PIs: **Rohan Alexander** and April Lindgren.
- University of Toronto, Data Sciences Institute, SUDS, May 2022 - August 2022
  - ▶ Project: “Disparities in climate-induced health outcomes in the Greater Toronto Area”
  - ▶ Funding: \$7,500
  - ▶ Co-PIs: **Rohan Alexander** and Monica Alexander.
- University of Toronto, School of Cities, Urban Challenge Grant, January 2022 - December 2022
  - ▶ Project: “Disparities in climate-induced health outcomes in the Greater Toronto Area”
  - ▶ Funding: \$75,000
  - ▶ Co-PIs: **Rohan Alexander**, Monica Alexander, Karen Smith, and Micah Hewer.
- University of Toronto, Data Sciences Institute, Data Access Grant, December 2021 - April 2022
  - ▶ Project: “Disparities in climate-induced health outcomes in the Greater Toronto Area”
  - ▶ Funding: \$10,000
  - ▶ Co-PIs: **Rohan Alexander** and Monica Alexander.
- University of Toronto, Faculty of Information, SSHRC Institutional Grant, November 2021 - March 2022
  - ▶ Project: “At what cost? Using Hansard data to understand the public policy that went ‘missing’ due to COVID-19”
  - ▶ Funding: \$3,500
  - ▶ PI: **Rohan Alexander**.
- University of Toronto, Faculty of Arts & Science, PIEF, September 2021 - March 2022
  - ▶ Project: “Developing the DoSS toolkit”
  - ▶ Funding: \$10,000
  - ▶ Co-PIs: **Rohan Alexander** and Samantha-Jo Caetano.
- CANSSI Ontario, Workshop/Lecture (COWL) Program, February 2021
  - ▶ Project: “Reproducibility of COVID-19 pre-prints”
  - ▶ Funding: \$1,000
  - ▶ PI: **Rohan Alexander**.
- CANSSI Ontario Multidisciplinary Doctoral (Mdoc) training program, September 2021 - September 2025
  - ▶ Funding: \$10,000 annually for five years
  - ▶ Co-PIs: **Rohan Alexander** and Monica Alexander.
- Mitacs Accelerate, June 2021 - November 2021
  - ▶ Project: “Robust Taxonomy out of Receipt Item Labels”
  - ▶ Partner organization: Sensibill
  - ▶ Funding: \$30,000
  - ▶ Co-PIs: **Rohan Alexander** and Michael Guerzhoy.
- University of Toronto, Faculty of Arts & Science, Pedagogical Innovation and Experimentation Fund, September 2020 - March 2021
  - ▶ Project: “Developing an applied statistics toolkit”
  - ▶ Funding: \$15,000
  - ▶ Co-PIs: **Rohan Alexander** and Samantha-Jo Caetano.
- University College London and University of Toronto, Strategic Partner Funds for AI collaborations, July 2020 - December 2020
  - ▶ Project: “AI Governance: Building ethical frameworks to balance risk and innovation”
  - ▶ Funding: \$25,000
  - ▶ Co-PIs: Elizabeth Lomas, Kelly Lyons, Jenny Bunn, and **Rohan Alexander**.

## Teaching experience

### Graduate

- Instructor, “STA4101: Topics in Statistical Data Science”, Statistical Sciences , Fall 2025
- Instructor, “INF3104: Data Science Foundations”, Information , Fall 2024
- Instructor, “INF3104: Data Science Foundations”, Information , Winter 2023
- Instructor, “INF2178: Experimental Design for Data Science”, Information , Winter 2021

- Instructor, “INF2178: Experimental Design for Data Science”, Information , Winter 2020

## **Undergraduate**

- Instructor, “STA304: Surveys, Sampling and Observational Data”, Statistical Sciences, Fall 2024
- Instructor, “STA302: Methods of Data Analysis I”, Statistical Sciences, Winter 2024
- Instructor, “INF312: Worlds Become Data”, Information, Winter 2024
- Instructor, “INF312: Worlds Become Data”, Information, Winter 2023
- Instructor, “INF312: Worlds Become Data”, Information, Winter 2022
- Instructor, “STA304: Surveys, Sampling and Observational Data”, Statistical Sciences, Winter 2022
- Instructor, “STA304: Surveys, Sampling and Observational Data”, Statistical Sciences, Fall 2020

## **Supervisory experience**

### **PhD**

- Inessa De Angelis, Information, September 2024 - *current*
- Ciara Zogheib, Information, September 2022 - *current*

### **Masters**

- Xutong Jiang, Applied Computing (academic supervisor), April 2024 - December 2024
  - Thesis: *Automated Financial Modelling from Contractual Definitions*
  - First placement: AI Research Developer, TAO Solutions Inc
- Michaela Drouillard, Information (academic supervisor), September 2023 - May 2024
  - Research papers: *Detecting Stylistic Variation in Pop Production and Rebuilding Danceability: Can crowdsourced metrics build reproducible audio features?*
  - First placement: Solutions engineer, Salesforce
- Inessa De Angelis, Information (thesis supervisor), September 2023 - May 2024
  - Thesis: *Torrential Twitter: Climate Change, Female Politicians, and Harassment*
  - First placement: PhD student, University of Toronto
- Lorena Almaraz De La Garza, Information (academic supervisor), June 2022 - September 2022
  - Research paper: *Machine Learning Inference for Demographic Features of Political Donors*
  - First placement: Senior AI/ML Model Steward Partner, Thomson Reuters
- Ciara Zogheib, Information (thesis supervisor), September 2021 - June 2022
  - Thesis: *The “Paper and Pencil” Operations of Interdisciplinarity: Interdisciplinary Integration as Information Practice*
  - First placement: PhD student, University of Toronto
- Elisa Du, Applied Computing (academic supervisor), March 2021 - December 2021
  - Thesis: *Enriched Understanding of Retail Receipts for Personalized Financial Insights*
  - First placement: Machine Learning Engineer, Sensibill
- Thomas William Rosenthal, Information (academic supervisor), January 2021 - April 2021
  - Research paper: *A Machine Learning Exploration into the Attributes that Define Single-Origin Coffee*
  - First placement: Data Scientist, Purpose Analytics

## **Undergraduate**

- Connor Glossop, Engineering (senior thesis), September 2022 - April 2023
  - Thesis: *Analyzing Political Polarization in Canada’s Parliament*
  - First placement: Data Scientist, Intact Insurance
- Callie Moore, Engineering (senior thesis), September 2021 - April 2022
  - Thesis: *Dyadic Representation in Canadian Parliament*
  - First placement: Data Analyst, Hospital for Sick Children
- Jeremy Hunt, Engineering (senior thesis), September 2020 - April 2021
  - Thesis: *Study of Software Tool Usage in Academics*

## Service

### Professional societies

- Chair, *Statistical Society of Canada, Working group on industry and statistics*, May 2025 - May 2026
- Past-president, *Data Science and Analytics Section, Statistical Society of Canada*, July 2025 - June 2026
- President, *Data Science and Analytics Section, Statistical Society of Canada*, July 2024 - June 2025
- President-elect, *Data Science and Analytics Section, Statistical Society of Canada*, July 2023 - June 2024

### Editorial

- Associate Editor, *Journal of Statistics and Data Science Education*, Summer 2021 - Summer 2025

### Refereeing

- 2025: *The Journal of Economic History; Journal of Statistics and Data Science Education* (x2); *The American Statistician; Harvard Data Science Review; Canadian Journal of Political Science*.
- 2024: *Journal of Statistics and Data Science Education* (x1).
- 2023: *Journal of Statistics and Data Science Education* (x3); *Social Sciences and Humanities Research Council of Canada; Archival Science; Harvard Data Science Review* (x2); *Demographic Research; PLOS Computational Biology; Canadian Journal of Political Science; Mitacs Accelerate*.
- 2022: *Chapman and Hall/CRC; Journal of Statistics and Data Science Education* (x3); *Political Analysis; Records Management Journal*.
- 2021: *Chapman and Hall/CRC* (x3); *Journal of Statistics and Data Science Education* (x2).
- 2020: *Canadian Journal of Political Science* (x2); *Political Analysis; Harvard Data Science Review; The Economic Record*.

### Outreach

- Co-organizer, *Toronto Data Workshop*, September 2019 - *current*
- Moderator, *Book Talk: "Digital Dreams Have Become Nightmares: What We Must Do"*, U of T Department of Computer Science and the Schwartz Reisman Institute for Technology and Society, 10 September 2024
- Presenter, *Adventures In Science Mentorship Program*, U of T Faculty of Medicine, 20 March 2024
- Organizer, *Florence Nightingale Day*, 2 March 2024
- Presenter, *Generative AI's Issues and Opportunities*, St Andrew's "Heart of the City", 27 September 2023
- Presenter, *Data Science in Action Summer High School Camp*, Harvard Biostatistics, 19 July 2023
- Organizer, *1st Colloquium on Applications of Large Language Models*, 11 April 2023
- Guest lecture, *Climate justice and data science*, "INF1322H: Communities and Values", 7 March 2023
- Organizer, *3rd Toronto Conference on Reproducibility*, 23 February 2023
- Local host, *Toronto Replication Games*, 22 February 2023
- Presenter, *Adventures In Science Mentorship Program*, U of T Faculty of Medicine, 16 February 2023
- Organizer, *Florence Nightingale Day*, 18 February 2023
- Organizer, *CANSSI Ontario Statistical Software Conference*, 10 November 2022
- Organizer, *Florence Nightingale Day*, 9 April 2022
- Organizer, *2nd Toronto Workshop on Reproducibility*, 23-25 February 2022
- Presenter, *Data Science in Action Summer High School Camp*, Harvard Biostatistics, 7 July 2021
- Organizer, *1st Toronto Workshop on Reproducibility*, 25-26 February 2021
- Co-organizer, *MRP Working Group*, January 2020 - November 2021

### Departmental and University Committees

- Member, Faculty Advisory Council, School of Cities, August 2024 - *current*
- Member, Data Sciences Speaker Series Committee, Data Sciences Institute, March 2023 - *current*
- Member, Graduate Committee, Statistical Sciences, July 2020 - *current*
- Member, Search Committee, HCDS Assistant Professor, Teaching, May 2025 - Nov 2025
- Reviewer, Urban Challenge Grants, School of Cities, March 2025
- Reviewer, Graduate Fellowships, Schwartz Reisman Institute, February 2025
- Coordinator, Applied Research and Education Seminar Series, Statistical Sciences, July 2022 - June 2024
- Member, Undergraduate Advisory Group, Faculty of Information, July 2023 - June 2024

- Member, Search Committee, ISD/HCDS Assistant Professor, Faculty of Information, August 2023 - April 2024
- Co-organizer, *Statistical Sciences PhD Practice Job Talk Day*, 14 December 2023
- Member, BI Recruitment and Admission Committee, Information, July 2021 - June 2023
- Member, Advisory Committee, Dean Search, Faculty of Information, November 2022 - May 2023
- Co-organizer, *Statistical Sciences PhD Practice Job Talk Day*, 12 December 2022
- Chair, Data Sciences Speaker Series Committee, Data Sciences Institute, March 2022 - March 2023
- Member, Search Committee, Dalla Lana School of Public Health, Assistant Professor—Data Science Methods for Population Health and Health Systems, July 2022 - March 2023
- Member, Faculty of Arts and Sciences Computation and Data Science Education Working Group, September 2021 - July 2022
- Member, Applied Research and Education Seminar Series, Statistical Sciences, July 2020 - June 2022
- Advisor, *Statistical Sciences PhD Student Research Day*, 25 May 2022
- Co-organizer, *Statistical Sciences PhD Practice Job Talk Day*, 17 December 2021
- Member, U of T Library Technical Skills Outreach Project, July 2021 - June 2022
- Member, Search Committee, Information, HCDS Teaching Stream Assistant Professor, November 2021 - April 2022
- Member, Search Committee, Information, Learning Hub Director and Teaching Stream Assistant Professor, November 2020 - April 2020
- Member, Awards Committee, Information, July 2020 - November 2020

## **Thesis Committees**

- Member, Information, PhD Thesis Proposal Defence Committee, Eshta Bhardwaj, August 2024 - *current*
  - ▶ Title: *The border as a platform*
- Member, Criminology, PhD Thesis Committee, Jamie Duncan, January 2023 - *current*
  - ▶ Title: *The border as a platform*

## **Exam Committees**

- Chair, School of Graduate Studies, Final Oral Examination, Alexandra Ballyk, 9 June 2025
- Chair, Statistical Sciences, Department Oral Examination, David Veitch, 3 June 2025
- Chair, Information, Masters Final Oral Examination, Shucen Lu, 3 September 2024
- Member, Information, PhD Qualifying Exam Committee, Eshta Bhardwaj, Fall 2023 - Winter 2024
- Member, Information, PhD Qualifying Exam Committee, Christina Wei, Fall 2023 - Winter 2024
- Member, Information, Thesis Proposal Defence, Mirai Gendi, Summer 2022 - Summer 2023
- Examiner, Statistical Sciences, PhD Applied Research Comprehensive, Fred Song, Fall 2023
- Chair, School of Graduate Studies, Final Oral Examination, Amanda Brijmohan, 30 August 2023
- Member, Statistical Sciences, PhD Final Oral Examination, Blair Bilodeau, 14 April 2023
- Chair, Statistical Sciences, PhD Oral Exam Committee, Michaël Lalancette, 14 July 2022
- Second Reader, Information, MI Thesis Defense, June Lim, 9 September 2021
- Member, Statistical Sciences, PhD Oral Exam Committee, Alex Stringer, 27 April 2021
- Member, Statistical Sciences, PhD Oral Exam Committee, Arvind Shrivats, 12 February 2021
- Member, Statistical Sciences, PhD Oral Exam Committee, Zhen Qin, 12 January 2021

## **Reading courses**

- Ethan Sansom, “Statistical Software Design”, Fall 2025
- John Zhang, “Sports Analytics”, Fall 2025
- Talia Fabregas, “Statistical Methods for Election Forecasting and Polling”, Summer 2025
- Kiki He, “History of Statistics”, Summer 2025
- Jack McKay, “Applications of Time Series Statistics”, Fall 2024
- Michaela Drouillard, “Harmonizing Algorithms and Culture”, Fall 2024
- Shaohan Chang, “Statistical Modeling”, Fall 2023
- Ananya Jha, “Ethics in Data Science and AI”, Winter 2023

## **Presentations**

- *Living in interesting times: Some opportunities and threats from AI in quantitative social sciences*
  - ▶ 3 July 2025, University of Sydney, Australia.
- *Getting started with Natural Language Processing*
  - ▶ 25 June 2025, University of Sydney, Australia.
- *On Florence Nightingale Day*
  - ▶ 6 August 2024, Chair, Joint Statistical Meetings (JSM), Portland Oregon.
- *Trustworthy Data Science and Self-Reported LLM Usage*
  - ▶ 4 August 2024, Joint Statistical Meetings (JSM), Portland Oregon.
- *Reproducibility and code*
  - ▶ 3 June 2024, Statistical Society of Canada (SSC), Annual Meeting, Newfoundland.
- *Using LLMs to improve the trustworthiness of data science*
  - ▶ 8 May 2024, Theory of Data Science Retreat, (online).
- *AI and Data Science Education*
  - ▶ 6 May 2024, Panelist, Data Science Leadership Summit, Atlanta.
- *Automated testing of data science code with LLMs*
  - ▶ 1 May 2024, STATSTRO Workshop, Toronto.
- *Fixing Social Science by Integrating AI*
  - ▶ 26 April 2024, SRI Research Exchange & Social, Toronto
- *Improving Reproducibility in Quantitative Social Sciences: Establishing a Simulation-Based Workflow Enhanced with Large Language Models*
  - ▶ 6 March 2024, Schwartz Reisman Institute for Technology and Society, Toronto.
- *Evaluating the Decency and Consistency of Data Validation Tests Generated by LLMs*
  - ▶ 7 December 2023, Australian Society for Quantitative Political Science, Brisbane.
  - ▶ 28 November 2023, Department of Statistical Sciences, Brown bag, Toronto.
  - ▶ 7 November 2023, Department of Mathematics & Statistics, University of Guelph.
- *Integrating Large Language Models (LLMs) into the Data Science Workflow*
  - ▶ 27 October 2023, Statistical Computing and Visualization (SCV) Committee, Statistics Society of Australia, (online).
- *From teaching to practice: Insights from the Toronto Reproducibility Conferences*
  - ▶ 8 August 2023, Joint Statistical Meetings (JSM), Toronto.
- *The Making of a Nation: Who Voted for Australian Federation?*
  - ▶ 23 June 2023, Australia before Federation, Centre for Economic History, Canberra.
- *Testing, testing, is this thing right?*
  - ▶ 27 January 2023, Quantitative Methods Cluster, University of Toronto.
  - ▶ 30 November 2022, FCT Abuja, Nigeria, UseR Group, (online).
  - ▶ 9 November 2022, Workshop in Computational & Quantitative Social Sciences, Toronto.
- *The growing importance of reproducibility and responsible workflow in the data science and statistics curriculum*
  - ▶ 13 December 2022, Panelist, CAUSE/JSDSE Webinar Series (online).
- *Reproducible workflows*
  - ▶ 2 November 2022, Biostatistics seminar series, Centre for Outcomes Research, McGill University Health Centre – Research Institute (online).
- *Rethinking data science*
  - ▶ 6 October 2022, Toronto Data Workshop, Toronto.
- *On the role of reproducibility in data science*
  - ▶ 4 August 2022, Stanford Data Science (online).
- *Integrating reproducibility into undergraduate data science teaching*
  - ▶ 14 July 2022, Australasian Teaching Economics Conference, (online).
  - ▶ 4 June 2022, Canadian Economics Association Conference, Carleton University, Ottawa.
- *On the double burden of disadvantage in data science*
  - ▶ 17 June 2022, We All Count, Talking Data Equity (online).
- *Reproducible Data Science Workflows in R*
  - ▶ 11 January 2022, Accra R User Ghana R Conference (online)

- *What data science can learn from the James Webb Space Telescope*
  - ▶ 17 December 2021, University of Toronto Statistics and MachIne LEarning (SMILE) Journal Club (online).
- *On the privilege of turning our world into data*
  - ▶ 16 December 2021, Young Irish Statisticians (online).
- *A super opinionated talk about data science, APIs, and grad school applications*
  - ▶ 18 November 2021, University of Toronto, Undergraduate Statistical Sciences Union Workshop (online).
- *Remarks on data science*
  - ▶ 19 October 2021, University of Toronto, Trinity College High Table (online).
- *Introduction to Andrew Gelman*
  - ▶ 17 September 2021, University of Toronto, Data Sciences Institute launch (online).
- *Introduction to R*
  - ▶ 22 December 2020, University of Toronto, Global Society for Genetics and Genome Biology (online).
- *Choosing the optimal set of co-variates to satisfy competing priorities in multi-level regression with post-stratification*
  - ▶ 6 May 2020, MRP Reading Group (online).
- *Forecasting Parliamentary Elections*
  - ▶ 10 December 2019, Monash University, Department of Econometrics & Business Statistics, Melbourne.
  - ▶ 9 December 2019, Australian Society for Quantitative Political Science Conference, Melbourne.
  - ▶ 2 December 2019, Australian National University, Cake for Comments, Canberra.
  - ▶ 20 November 2019, POP Politics Workshop, Canberra.
  - ▶ 17 October 2018, University of Toronto, Political Behaviour Group, Toronto.
- *A Word-Count Based Classifier of Politicians in the Australian Federal Parliament (1901–2018)*
  - ▶ 4 September 2019, European Consortium for Political Research, General Conference, Wroclaw.
  - ▶ 22 June 2019, European Political Science Association, Annual Conference, Belfast.
  - ▶ 18 June 2019, Quantitative Text Analysis Workshop, Dublin.
- *The Effect of Elections and Prime Ministers on Discussion in the Australian Federal Parliament (1901–2018)*
  - ▶ 11 January 2019, Political Methodology Specialist Group, Annual Conference, Warwick.
  - ▶ 11 December 2018, Max Planck Institute for Demographic Research, Rostock.
  - ▶ 22 November 2018, University of Toronto, Political Behaviour Group, Toronto.
  - ▶ 25 October 2018, Australian National University, Research School of Economics, Canberra.
  - ▶ 25 October 2018, Parliamentary Library, Parliament of Australia, Canberra.
  - ▶ 24 October 2018, Australian National University, School of Politics and International Relations, Canberra.
- *Exploring Australia's Hansard (1901–2017)*
  - ▶ (Poster) 7-9 Sep, 2018 Economic History Association Meeting, Montreal.
- *A Surnames-Based Analysis of Tasmanian Social Mobility (1803–2015)*
  - ▶ 20 May 2016, UC Berkeley, Economic History Lunch, Berkeley.
  - ▶ 2 May 2016, Australian National University, Research School of Economics, Canberra.