Rohan Alexander

Assistant Professor, Information (51%) and Statistical Sciences (49%), University of Toronto
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Academic appointments

- University of Toronto
  - Assistant Professor, Information & Statistical Sciences   Jul 2020 - *current*
    * Parental leave: From June to August 2021 I was on parental leave.
    * COVID-19: From March to December 2020 I shared full-time childcare duties (0.5 FTE on average). From January 2021 to May 2021, and again from September to December 2021, I shared part-time childcare duties, (0.25 FTE on average).
  - Director, Technical Skills Curriculum & Instruction, Data Sciences Institute   July 2021 - *current*
    * The DSI's Data Science and Machine Learning Certificates initially received $2.5 million in financial support from Upskill Canada, Palette Skills, and the Government of Canada. This was renewed in 2025, for an overall investment of $3.9M by 2026.
    * I work with three full-time staff to oversee all academic aspects including: liaise with industry and internal academic partners; establish, create and update curricula; hire and manage around 20 instructional and support staff for 16-week cohorts of around 125 learners.
    * Nearly 50 per cent of the first year of certificate participants secured new employment, or received promotions, or transitioned into new roles within six months of completion.
    * These courses are now also being taught to University of Toronto PhD students.
  - Faculty Affiliate, Schwartz Reisman Institute for Technology and Society August 2020 - *current*
  - Associate Director, Canadian Statistical Sciences Institute (CANSSI) Ontario Sep 2021 - *current*
    * CANSSI Ontario has an annual operating budget of around $1 million.
    * I support the director and three full-time staff to promote research in data science and statistics by providing funding and hosting events.
  - Senior Fellow, Massey College   Sep 2021 - Sep 2024
  - Co-lead, Data Sciences Institute Thematic Program in Reproducibility   Nov 2021 - Oct 2024
  - Post-doctoral Fellow, Information, supervised by Kelly Lyons   Jul 2019 - Jul 2020

Education

- Australian National University
  - PhD (Economics)   Feb 2015 - Dec 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   Feb 2012 - Nov 2012
- University of Queensland
  - B. Economics (Hon IIa)   Feb 2004 - Nov 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**, and Andrew Gelman, (editors), *Multilevel Regression and Post-stratification: A Practical Guide and New Developments*, (accepted by Cambridge University Press in July 2021, expected publication in 2026).

Peer-reviewed journal articles[1]

- 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.
- **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.

Peer-reviewed conference proceedings

- 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*.

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

- De Angelis, Inessa, and **Rohan Alexander**, 2025, "What are Canadian Members of Parliament doing on Bluesky?", submitted to *Canadian Journal of Political Science*.
- 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", submitted to *Nature*, draft available: https://econpapers.repec.org/paper/zbw4rdps/195.htm.
- Bhardwaj, Eshta, **Rohan Alexander**, Christoph Becker, 2025, "Limits to AI Growth: The Ecological and Social Consequences of Scaling", submitted to *2025 ACM Conference on Fairness, Accountability, and Transparency (FAccT '25)*, draft available: https://arxiv.org/pdf/2501.17980.

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.
- Ferguson, Sharon, Mujgan Ozceylan, Rohan Alexander, Ishtiaque Ahmed, Young-Ho Kim, Anastasia Kuzminykh "Open for Interpretation: The Effects of LLM-Generated Input on Human Information Interpretation in Subjective Decision-Making".
- Wei, Christina Ziying, Omer Imran, Pelin Tanberg, Michaela Drouillard, **Rohan Alexander**, Anastasia Kuzminykh "Fair and Square: The Role of Subjectivity in Explanations of Financial Decision Models".
- Kennedy, Lauren, Jonah Gabry, Dewi Amaliah, and **Rohan Alexander**, 2023, "mrpkit: A reproducible, opinionated, workflow for multilevel regression with post-stratification in R".
- Collins, Annie, and **Rohan Alexander**, 2022, "History of MRP", (under review at Kennedy, Alexander, and Gelman, (editors), *Multilevel Regression and Poststratification: A Practical Guide and New Developments*).
- **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.

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[1]My work is interdisciplinary and there are different norms for author order and publication venue across disciplines. With regard to author order, Alexander and Ward, 2018, is alphabetical, all others follow the norm of the senior author last. Items in the "peer-reviewed conference proceedings" list—despite being a "conference proceeding"—can be "translated" as equivalent to a peer-reviewed journal article.

- **Alexander, Rohan**, Samantha-Jo Caetano, Haoluan Chen, Michael Chong, Annie Collins, Shirley Deng, Isaac Ehrlich, Paul Hodgetts, Yena Joo, Marija Pejcinovska, Mariam Walaa, and Matthew Wankiewicz, 2021, "An Introduction to DoSStoolkit", *arXiv*, 19 May, https://arxiv.org/abs/2105.09347.
- 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`.

Awards
- 2022 ANU Australian Politics Studies Centre Visiting Scholar ($2,500)
- Honourable Mention, 2021 Master of Information Student Council Instructor Awards

Grants[2]
- 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 delivered through paid internships)
    - Investigators: **Rohan Alexander** (PI), Laks Lakshmanan (co-PI), Shurui Zhou (collaborator), Jesse Gronsbell (collaborator).
- University of Toronto, Data Sciences Institute, Catalyst Grant   Feb 2025 - Jan 2026
    - Project: "Automated LLM-based Pipelines to Improve Code Quality in the Social Sciences"
    - Funding: $100,000
    - Investigators: **Rohan Alexander** (PI), Monica Alexander (co-PI), and Chris Maddison (co-PI).
- Mitacs Business Strategy Internship   January 2025 - December 2025
    - Project: "Open by Default"
    - Funding: $150,000 (delivered through paid internships)
    - Investigators: Christopher Cochrane (supervisor) and **Rohan Alexander** (co-supervisor).
- SSHRC Partnership Grant–Stage 1   May 2024 - Sep 2024
    - Project: "The Political Accountability, Transparency, and Representation Oversight Network"
    - Funding: $19,982
    - Investigators: Christopher Cochrane (director) and **Rohan Alexander** (co-director).
- SSHRC Partnership Development Grant   Mar 2024 - Mar 2026
    - Project: "Transparency in Governance: Enhancing Data Integrity for Analyzing Conflicts of Interest and Lobbying in Canadian Politics"
    - Funding: $172,511
    - Investigators:
        * Co-leads: **Rohan Alexander** and Zane Schwartz.
        * Co-applicants: Chris Cochrane, April Lindgren, Holly Ann Garnett, Randy Besco, Semra Sevi, Jacob Robbins-Kanter.
- Open Philanthropy   Apr 2024 - Jun 2025
    - Project: "Benchmarking LLM agents on real-world tasks: Reproducibility"
    - Funding: $174,112 USD (~$235,342 CAD, as at 26 February 2024)
    - Investigators: Abel Brodeur (PI), Alexandru Marcoci (co-PI), and **Rohan Alexander** (co-PI).
- University of Toronto, Data Sciences Institute, Seed Funding for Methodologists Grant   Feb 2024 - Jul 2024

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[2]PI means principal investigator. All amounts are Canadian dollars unless otherwise mentioned.

- 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 Jan 2024 - Dec 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   Sep 2023 - Aug 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   Jul 2023 - Jun 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)
  - Supervisor: **Rohan Alexander**
  - Co-Supervisor: Christopher Cochrane, Raymond Ng
- University of Toronto, Data Sciences Institute, Catalyst Grant   Feb 2023 - Jan 2024
  - Project: "Providing data to improve representation by public officials"
  - Funding: $100,000
  - Investigators: Peter Loewen (Named PI), **Rohan Alexander** (co-PI), Aya Mitani (co-PI), and Elena Tuzhilina (co-PI).
- 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   Jan 2023 - Dec 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   Nov 2022 - Nov 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   Oct 2022 - Sep 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   Jun 2022 - Jun 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   Jun 2022 - Nov 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 - Aug 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   Jan 2022 - Dec 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   Dec 2021 - Apr 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   Nov 2021 - Mar 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   Sep 2021 - Mar 2022
  - Project: "Developing the DoSS toolkit"
  - Funding: $10,000
  - Co-PIs: **Rohan Alexander** and Samantha-Jo Caetano.
- CANSSI Ontario, Workshop/Lecture (COWL) Program   Feb 2021
  - Project: "Reproducibility of COVID-19 pre-prints"
  - Funding: $1,000
  - PI: **Rohan Alexander**.
- CANSSI Ontario Multidisciplinary Doctoral (Mdoc) training program   Sep 2021 - Sep 2025
  - Funding: $10,000 annually for five years
  - Co-PIs: **Rohan Alexander** and Monica Alexander.
- Mitacs Accelerate   Jun 2021 - Nov 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 Sep 2020 - Mar 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 Jul 2020 - Dec 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

<small>PʜD</small>

- Instructor, "INF3104: Data Science Foundations", Information — Fall 2024
- Instructor, "INF3104: Data Science Foundations", Information — Winter 2023

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- Instructor, "INF2178: Experimental Design for Data Science", Information — Winter 2021
- Instructor, "INF2178: Experimental Design for Data Science", Information — Winter 2020

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- 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

<small>PʜD</small>

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

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- Xutong Jiang, Applied Computing (academic supervisor) — Apr 2024 - Dec 2024
    - Thesis: *Automated Financial Modelling from Contractual Definitions*
    - First placement: AI Research Developer, TAO Solutions Inc
- Michaela Drouillard, Information (academic supervisor) — Sep 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) — Sep 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) — Jun 2022 - Sep 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) — Sep 2021 - Jun 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) — Mar 2021 - Dec 2021
    - Thesis: *Enriched Understanding of Retail Receipts for Personalized Financial Insights*
    - First placement: Machine Learning Engineer, Sensibill
- Thomas William Rosenthal, Information (academic supervisor) — Jan 2021 - Apr 2021
    - Research paper: *A Machine Learning Exploration into the Attributes that Define Single-Origin Coffee*
    - First placement: Data Scientist, Purpose Analytics

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- Connor Glossop, Engineering (senior thesis) — Sep 2022 - Apr 2023
    - Thesis: *Analyzing Political Polarization in Canada's Parliament*

- First placement: Data Scientist, Intact Insurance
- Callie Moore, Engineering (senior thesis)   Sep 2021 - Apr 2022
    - Thesis: *Dyadic Representation in Canadian Parliament*
    - First placement: Data Analyst, Hospital for Sick Children
- Jeremy Hunt, Engineering (senior thesis)   Sep 2020 - Apr 2021
    - Thesis: *Study of Software Tool Usage in Academics*

Service

Professional societies

- President, *Data Science and Analytics Section, Statistical Society of Canada*   Jul 2024 - Jun 2025
- President-elect, *Data Science and Analytics Section, Statistical Society of Canada*   Jul 2023 - Jun 2024

Editorial

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

Refereeing

- 2025: *Journal of Statistics and Data Science Education* (x2); *The American Statistician*.
- 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*   Sep 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 Sep 2024
- Presenter, *Adventures In Science Mentorship Program*, U of T Faculty of Medicine   20 Mar 2024
- Organizer, *Florence Nightingale Day*   2 Mar 2024
- Presenter, *Generative AI's Issues and Opportunities*, St Andrew's "Heart of the City"   27 Sep 2023
- Presenter, *Data Science in Action Summer High School Camp*, Harvard Biostatistics   19 Jul 2023
- Organizer, *1st Colloquium on Applications of Large Language Models*   11 Apr 2023
- Guest lecture, *Climate justice and data science*, "INF1322H: Communities and Values"   7 Mar 2023
- Organizer, *3rd Toronto Conference on Reproducibility*   23 Feb 2023
- Local host, *Toronto Replication Games*   22 Feb 2023
- Presenter, *Adventures In Science Mentorship Program*, U of T Faculty of Medicine   16 Feb 2023
- Organizer, *Florence Nightingale Day*   18 Feb 2023
- Organizer, *CANSSI Ontario Statistical Software Conference*   10 Nov 2022
- Organizer, *Florence Nightingale Day*   9 Apr 2022
- Organizer, *2nd Toronto Workshop on Reproducibility*   23-25 Feb 2022
- Presenter, *Data Science in Action Summer High School Camp*, Harvard Biostatistics   7 Jul 2021
- Organizer, *1st Toronto Workshop on Reproducibility*   25-26 Feb 2021
- Co-organizer, *MRP Working Group*   Jan 2020 - Nov 2021

Departmental and University Committees

- Member, Faculty Advisory Council, School of Cities   August 2024 - *current*
- Member, Data Sciences Speaker Series Committee, Data Sciences Institute   Mar 2023 - *current*
- Member, Graduate Committee, Statistical Sciences   July 2020 - *current*

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

THESIS COMMITTEES

- Member, Criminology, PhD Thesis Committee, Jamie Duncan — Jan 2023 - *current*
  - Title: *The border as a platform*

EXAM COMMITTEES

- 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 Aug 2023
- Member, Statistical Sciences, PhD Final Oral Examination, Blair Bilodeau — 14 Apr 2023
- Chair, Statistical Sciences, PhD Oral Exam Committee, Michaël Lalancette — 14 Jul 2022
- Second Reader, Information, MI Thesis Defense, June Lim — 9 Sep 2021
- Member, Statistical Sciences, PhD Oral Exam Committee, Alex Stringer — 27 Apr 2021
- Member, Statistical Sciences, PhD Oral Exam Committee, Arvind Shrivats — 12 Feb 2021
- Member, Statistical Sciences, PhD Oral Exam Committee, Zhen Qin — 12 Jan 2021

Presentations

- *On Florence Nightingale Day*
  - 6 Aug 2024, Chair, Joint Statistical Meetings (JSM), Portland Oregon.
- *Trustworthy Data Science and Self-Reported LLM Usage*
  - 4 Aug 2024, Joint Statistical Meetings (JSM), Portland Oregon.
- *Reproducibility and code*
  - 3 Jun 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 Aug 2023, Joint Statistical Meetings (JSM), Toronto.
- *The Making of a Nation: Who Voted for Australian Federation?*
  - 23 Jun 2023, Australia before Federation, Centre for Economic History, Canberra.
- *Testing, testing, is this thing right?*
  - 27 Jan 2023, Quantitative Methods Cluster, University of Toronto.
  - 30 Nov 2022, FCT Abuja, Nigeria, UseR Group, (online).
  - 9 Nov 2022, Workshop in Computational & Quantitative Social Sciences, Toronto.
- *The growing importance of reproducibility and responsible workflow in the data science and statistics curriculum*
  - 13 Dec 2022, Panelist, CAUSE/JSDSE Webinar Series (online).
- *Reproducible workflows*
  - 2 Nov 2022, Biostatistics seminar series, Centre for Outcomes Research, McGill University Health Centre – Research Institute (online).
- *Rethinking data science*
  - 6 Oct 2022, Toronto Data Workshop, Toronto.
- *On the role of reproducibility in data science*
  - 4 Aug 2022, Stanford Data Science (online).
- *Integrating reproducibility into undergraduate data science teaching*
  - 14 Jul 2022, Australasian Teaching Economics Conference, (online).
  - 4 Jun 2022, Canadian Economics Association Conference, Carleton University, Ottawa.
- *On the double burden of disadvantage in data science*
  - 17 Jun 2022, We All Count, Talking Data Equity (online).
- *Reproducible Data Science Workflows in R*
  - 11 Jan 2022, Accra R User Ghana R Conference (online)
- *What data science can learn from the James Webb Space Telescope*
  - 17 Dec 2021, University of Toronto Statistics and MachIne LEarning (SMILE) Journal Club (online).
- *On the privilege of turning our world into data*
  - 16 Dec 2021, Young Irish Statisticians (online).
- *A super opinionated talk about data science, APIs, and grad school applications*
  - 18 Nov 2021, University of Toronto, Undergraduate Statistical Sciences Union Workshop (online).
- *Remarks on data science*
  - 19 Oct 2021, University of Toronto, Trinity College High Table (online).
- *Introduction to Andrew Gelman*
  - 17 Sep 2021, University of Toronto, Data Sciences Institute launch (online).
- *Introduction to R*

- – 22 Dec 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 Dec 2019, Monash University, Department of Econometrics & Business Statistics, Melbourne.
  - – 9 Dec 2019, Australian Society for Quantitative Political Science Conference, Melbourne.
  - – 2 Dec 2019, Australian National University, Cake for Comments, Canberra.
  - – 20 Nov 2019, POP Politics Workshop, Canberra.
  - – 17 Oct 2018, University of Toronto, Political Behaviour Group, Toronto.
- *A Word-Count Based Classifier of Politicians in the Australian Federal Parliament (1901–2018)*
  - – 4 Sep 2019, European Consortium for Political Research, General Conference, Wroclaw.
  - – 22 Jun 2019, European Political Science Association, Annual Conference, Belfast.
  - – 18 Jun 2019, Quantitative Text Analysis Workshop, Dublin.
- *The Effect of Elections and Prime Ministers on Discussion in the Australian Federal Parliament (1901—2018)*
  - – 11 Jan 2019, Political Methodology Specialist Group, Annual Conference, Warwick.
  - – 11 Dec 2018, Max Planck Institute for Demographic Research, Rostock.
  - – 22 Nov 2018, University of Toronto, Political Behaviour Group, Toronto.
  - – 25 Oct 2018, Australian National University, Research School of Economics, Canberra.
  - – 25 Oct 2018, Parliamentary Library, Parliament of Australia, Canberra.
  - – 24 Oct 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.