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?", forthcoming at *Canadian Journal of Political Science*.
- **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

- 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", under review at *Nature Communications*, draft available: https://econpapers.repec.org/paper/zbwi4rdps/195.htm.
- Bhardwaj, Eshta, **Rohan Alexander**, Christoph Becker, 2025, "Limits to AI Growth: The Ecological and Social Consequences of Scaling", draft available: https://arxiv.org/pdf/2501.17980.
- **Alexander, Rohan**, Luca Carnegie, Nathalie Moon, 2025, "Self-reported LLM usage and outcomes on a data science project: Evidence from two undergraduate courses", under review at *Journal of Statistics and Data Science Education*.

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[1]

- 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 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"

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

- 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: *Journal of Statistics and Data Science Education* (x2); *The American Statistician*; *Harvard Data Science Review*.
- 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 - *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, 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.