Rohan Alexander

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Academic appointments

- Assistant Professor, Information & Statistical Sciences, University of Toronto July 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).
- November 2021 Current • Co-lead, Data Sciences Institute Thematic Program in Reproducibility
- Assistant Director, Canadian Statistical Sciences Institute (CANSSI) Ontario September 2021 Current
- Senior Fellow, Massey College

September 2021 - Current

• Academic Lead, Short courses, Data Sciences Institute

- July 2021 Current
- Faculty Affiliate, Schwartz Reisman Institute for Technology and Society
- August 2020 Current
- Post-doctoral Fellow, Information, supervised by Kelly Lyons

July 2019 - July 2020

Education

• PhD (Economics), Australian National University

- 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

• B. Economics, University of Queensland

February 2004 - November 2008

Book

• Alexander, Rohan, Telling Stories with Data, (accepted for publication by CRC Press in May 2021).

Edited book

• Kennedy, Lauren, Rohan Alexander, and Andrew Gelman, (editors), Multilevel Regression and Poststratification: A Practical Guide and New Developments, (accepted for publication by Cambridge University Press in July 2021).

Journal articles

- 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.
- 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 proceedings¹

• Ferguson, Sharon, Paula Akemi Aoyagui, Rohan Alexander, Anastasia Kuzminykh, 2022, 'A Thematic Comparison of Human and AI Explanations of Sexism Assessment' in Human Centered AI Workshop at NeurIPS (Neural Information Processing Systems).

¹My work is interdisciplinary and there are different norms for publication in different disciplines. Items in this list would be considered comparable to a journal article in social sciences.

Pre-prints

- 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.
- 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/.

Software

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

Awards

- Nominated, 2022 University of Toronto Libraries' STAR Award
- 2022 ANU Australian Politics Studies Centre Visiting Scholar (\$2,500)
- Honourable Mention, 2021 Master of Information Student Council Instructor Awards

Grants

- U of T Data Sciences Institute Data Access Grant

 November 2022 November 2023
 - \$9,993 to purchase data in support of the project 'Developing a large- scale lobbying and political donations dashboard to foster access to and interdisciplinary research on democratic accountability and political donations'.
 - Co-PIs: Rohan Alexander and Chris Cochrane.
- SSHRC Connection Grant

October 2022 - September 2024

- \$50,000 on the project 'Follow the money: Mobilizing Canadian political donations data'.
- PI: Rohan Alexander.
- Co-investigators: Jacob Robbins-Kanter, Wing Cheung Michael Wong, Zane Schwartz.
- SSHRC Partnership Development Grant

June 2022 - June 2024

- \$169,855 on the project 'Follow the Money: Donors, Donations, and Parties in Canadian Politics'.
- 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 with Investigative Journalism Foundation of Canada June 2022 November 2022
 - \$48,000 to support an intern associated with 'Follow the Money: Investigating Political Donations in Canada'.
 - Co-PIs: Rohan Alexander and April Lindgren.
- U of T Data Sciences Institute Summer Undergraduate Data Science May 2022 August 2022
 - \$7,500 to support an undergraduate over summer on the project 'Disparities in climate-induced health outcomes in the Greater Toronto Area'.
 - Co-PIs: Rohan Alexander and Monica Alexander.
- U of T School of Cities Urban Challenge Grant

January 2022 - December 2022

- \$75,000 toward RAs and expenses associated with the project 'Disparities in climate-induced health outcomes in the Greater Toronto Area'.
- Co-PIs: Rohan Alexander, Monica Alexander, Karen Smith, and Micah Hewer.
- U of T Data Sciences Institute Data Access Grant

December 2021 - April 2022

- \$10,000 to purchase ICES data in support of the project 'Disparities in climate-induced health outcomes in the Greater Toronto Area'.
- Co-PIs: Rohan Alexander and Monica Alexander.
- U of T Faculty of Information SSHRC Institutional Grant

 November 2021 March 2022
 - \$3,500 to support an RA on the project 'At what cost? Using Hansard data to understand the public policy that went 'missing' due to COVID-19'.
 - PI: Rohan Alexander.
- U of T Faculty of Arts & Science Pedagogical Innovation and Experimentation Fund September 2021 -March 2022
 - \$10,000 to continue developing the DoSS toolkit.
 - Co-PIs: Rohan Alexander, and Samantha-Jo Caetano.
- CANSSI Ontario Workshop/Lecture (COWL) Program

February 2021

- \$1,000 to support undergraduate research.
- PI: Rohan Alexander.
- CANSSI Ontario Multidisciplinary Doctoral (Mdoc) training program September 2021 September 2025
 - \$10,000 annually for five years to support a PhD student.
 - Co-PIs: Rohan Alexander, and Monica Alexander.
- Mitacs Accelerate with Sensibill

June 2021 - November 2021

- \$30,000 to support an intern associated with 'Robust Taxonomy out of Receipt Item Labels'
- Co-PIs: Rohan Alexander and Michael Guerzhoy.
- U of T Faculty of Arts & Science Pedagogical Innovation and Experimentation Fund September 2020 March 2021.
 - \$15,000 to develop an applied statistics toolkit.
 - Co-PIs: Rohan Alexander, and Samantha-Jo Caetano.
- - \$25,000 for 'AI Governance: Building ethical frameworks to balance risk and innovation'.
 - Co-PIs: Elizabeth Lomas, Kelly Lyons, Jenny Bunn, and Rohan Alexander.

Teaching experience

РнD

• (Upcoming) Instructor, 'INF3104: Data Science Foundations', Information Winter 2023

Masters

•	Instructor, 'INF2178: Experin	mental Design for Data Science', Information	Winter 2021
•	Instructor, 'INF2178: Experin	mental Design for Data Science', Information	Winter 2020

Undergraduate

• (Upcoming) 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

РнD

• Ciara Zogheib, Information

September 2022 - Current

Masters

- Lorena Almaraz De La Garza, Information (academic supervisor)

 June 2022 September 2022
 - Title: Machine Learning Inference for Demographic Features of Political Donors
 - Outcome: Senior AI/ML Model Steward Partner at Thomson Reuters

• Ciara Zogheib, Information (thesis supervisor)

- September 2021 June 2022
- Title: The 'Paper and Pencil' Operations of Interdisciplinarity: Interdisciplinary Integration as Information
- Outcome: PhD student at University of Toronto
- Elisa Du, Applied Computing (academic supervisor)

March 2021 - December 2021

- Title: Enriched Understanding of Retail Receipts for Personalized Financial Insights
- Outcome: Machine Learning Engineer at Sensibill
- Thomas William Rosenthal, Information (academic supervisor) January 2021 - April 2021
 - Title: A Machine Learning Exploration into the Attributes that Define Single-Origin Coffee
 - Outcome: Data Scientist at Purpose Analytics

Undergraduate

• Connor Glossop, Engineering (senior thesis)

September 2022 - Current

- Title: Analyzing Political Polarization in Canada's Parliament
- Callie Moore, Engineering (senior thesis)

September 2021 - April 2022

- Title: Dyadic Representation in Canadian Parliament
- Outcome: Data Analyst, Hospital for Sick Children
- Jeremy Hunt, Engineering (senior thesis)

September 2020 - April 2021

- Title: Study of Software Tool Usage in Academics

Service

OUTREACH

• Co-organizer, Toronto Data Workshop

September 2019 - Current

• (Upcoming) Organizer, Toronto Conference on Reproducibility • Organizer, CANSSI Ontario Statistical Software Conference

23-24 February 2022 10 November 2022

• Organizer, Florence Nightingale Day

9 April 2022

• Organizer, Toronto Workshop on Reproducibility

23-25 February 2022

• Organizer, Toronto Workshop on Reproducibility

25-26 February 2021

• Co-organizer, MRP Working Group

January 2020 - November 2021

DEPARTMENTAL AND UNIVERSITY COMMITTEES

- Member, Advisory Committee, Dean Search, Faculty of Information November 2022 - Current
- Member, Search Committee, Dalla Lana School of Public Health, Assistant Professor—Data Science Methods for Population Health and Health Systems July 2022 - Current
- Chair, Data Sciences Speaker Series Selection Committee, Data Sciences Institute March 2022 Current
- Chair, Applied Research and Education Seminar Series, Statistical Sciences July 2022 - Current
- Member, Faculty of Arts and Sciences Computation and Data Science Education Working Group September 2021 - Current
- Member, BI Recruitment and Admission Committee, Information

July 2021 - Current

• Member, Graduate Committee, Statistical Sciences

July 2020 - Current

- Member, Applied Research and Education Seminar Series, Statistical Sciences July 2020 June 2022 25 May 2022
- Advisor, Statistical Sciences PhD Student Research Day • Co-organizer, Statistical Sciences PhD Practice Job Talk Day

17 December 2021

July 2021 - June 2022

• Member, U of T Library Technical Skills Outreach Project

- Member, Search Committee, Information, HCDS Teaching Stream Assistant Professor, November 2021 - April 2022 • Member, Search Committee, Information, Learning Hub Director and Teaching Stream Assistant
- Member, Awards Committee, Information

November 2020 - April 2020 July 2020 - November 2020

EXAM AND THESIS COMMITTEES

• Chair, Statistical Sciences, PhD Oral Exam Committee, Michaël Lalancette

14 July 2022

- Member, Information, PhD Thesis Committee, Mirai Gendi
- January 2022 Current - Title: Data science and process mining with application to digital forensics
- Second Reader, Information, MI Thesis Defense, June Lim
 - Title: Gendered Voices in Japanese Popular Music: A Data-Driven Analysis
- Member, Statistical Sciences, PhD Oral Exam Committee, Alex Stringer
- Member, Statistical Sciences, PhD Oral Exam Committee, Arvind Shrivats
- Member, Statistical Sciences, PhD Oral Exam Committee, Zhen Qin

27 April 2021 12 February 2021 12 January 2021

9 September 2021

EDITORIAL SERVICE

Associate Editor, Journal of Statistics and Data Science Education

Summer 2021 - Current

REFEREEING

- 2022: CRC Press; Journal of Statistics and Data Science Education (x2); Political Analysis; Records Management Journal.
- 2021: CRC Press (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.

Presentations

- From teaching to practice: Insights from the Toronto Reproducibility Conferences
 - (*Upcoming*) 5-10 August 2023, Joint Statistical Meetings (JSM), Toronto.
 - (Upcoming) 30 May 3 June 2023, Statistical Society of Canada Data Science and Analytics Section Session on Reproducibility, Toronto.
- Telling Stories with Data
 - (*Upcoming*) 27 January 2023, Quantitative Methods Cluster, University of Toronto.
- *Testing*, *testing*, *is this thing right?*
 - (Upcoming) 18 November 2022, FCT Abuja, Nigeria, UseR Group, (online).
 - 9 November 2022, Workshop in Computational & Quantitative Social Sciences, Toronto.
- *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).
- Turning Our World Into Data
 - 7 July 2021, Harvard Biostatistics Data Science in Action Summer Camp (online).
- Choosing the optimal set of co-variates to satisfy competing priorities in multi-level regression with poststratification
 - 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 September, 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.