Justin Savoie

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Education

University of Toronto, *Ph.D. Political Science*   2017 - (ABD)

Fields: Canadian Politics, Comparative Politics

Thesis proposal: *The meaning of "nation" in Canada: an analysis on parliamentary texts using word embeddings*
Committee: Christopher Cochrane (chair), Peter John Loewen, Ludovic Rheault.

Université Laval, *M.A. Political Science*   2019

Thesis: *La cartellisation politique québécoise: une étude de cas quantitative*
Committee: Eric Montigny (chair), Marc Andre Bodet, François Gélineau.

Université Laval, *B.A. Economics and Politics*   2015

15 full credits Sciences Po Paris   2014

General interests

My research focuses on survey design and analysis, computational methods in the social and behavioral sciences, and applied machine learning for text analysis. I am particularly interested in building tools and workflows that enhance the efficiency, accuracy, and interpretability of data-driven research. In the private sector, I have led data analysis and reporting for clients at major media organizations. In the public sector, I have worked on applying computational methods to policy-relevant challenges. Recently, I've developed a strong interest in building fast, local AI tools for data analysis, text classification, and scientific writing using open-source models.

Publications

Peer-reviewed articles

2023. Ouimet M., Savoie, J., Montigny, E., How did the disclosure of lobbying targeting Quebec's hospitals become mandatory and with what effect? *Canadian Public Administration*

2023. Fortier-Chouinard A., Bodet, MA., Gélineau, F., Savoie, J., Getting the Message Out: Why Mail-Delivered GOTV Interventions Succeed or Fail *PS: Political Science & Politics*

2022. Hix, S., van der Linden, C., Massie, J., Pickup, M., Savoie, J., Where is the EU–UK relationship heading? A conjoint survey experiment of Brexit trade-offs *European Union Politics*

2022. Dufresne, Y., Jérôme, B., Lewis-Beck, M.S., Murr, A., Savoie, J., "Citizen forecasting : the 2022 French presidential election" *PS: Political Science & Politics*

2020. Daoust, J-F., Nadeau, R., Dassonneville, R., Lachapelle, E., Bélanger, E. Savoie, J., van der Linden, C., "How to Survey Citizens' Compliance with COVID-19 Public Health Measures: Evidence from Three Survey Experiments" *Journal of Experimental Political Science*

2020. Donnelly, M., Islam, MMD., Savoie, J., The public face of interest group lobbying on immigration: who responds to and who ignores what they say *European Journal of Social Policy*

2020. van der Linden, C. Savoie, J., "Does collective interest or self-interest motivate mask usage as a preventive measure against COVID-19?" *Canadian Journal of Political Science.*

2020. Savoie, J., van der Linden, C., Breton, C., Realignment and voter issue preferences in Quebec's 2018 provincial election A conjoint experiment *French Politics*

2019. Fréchet, N., Savoie, J., Dufresne, Y., Analysis of Text-Analysis Syllabi: Building a Text-Analysis Syllabus Using Scaling *PS: Political Science and Politics.*

2019. Temporão, M., Dufresne, Y., Savoie, J., van der Linden, C., "Crowdsourcing the Vote: New Horizons in Citizen Forecasting" *International Journal of Forecasting* 35 (1), 1:10.

Peer-reviewed book chapters

2021. Lees-Marshment, J., Elder, E., Savoie, J., van der Linden, C. Under Press. *Targeting Party Supporters, Key Demographics and Undecided Voters* in Political Marketing and Management in the 2020 New Zealand General Election. Palgrave.

2021. Lees-Marshment, J., Elder, E., Savoie, J., van der Linden, C. Under Press. *What the Market Wanted: Vote Compass 2020 and Public Views on Issues and Leadership* in Political Marketing and Management in the 2020 New Zealand General Election. Palgrave.

2018. Lees-Marshment, J., Elder, E., Chant L., Osborne, D., Savoie, J., van der Linden, C. 2018. *Vote Compass NZ 2017: Marketing Insights into Public Views on Policy and Leaders* in Political Marketing and Management in the 2017 New Zealand Election Palgrave Pivot. 7-22.

2018. Lees-Marshment, J., Elder, E., Chant L., Osborne, D., Savoie, J., van der Linden, C. 2018. *Political Parties and Their Customers: The Alignment of Party Policies with Supporter, Target and Undecided Market Preferences* in Political Marketing and Management in the 2017 New Zealand Election. Palgrave Pivot. 23-41.

Other publications; general audience

2024. Parkin, A., Savoie, J., Experiences with COVID-19 and mental health *The Environics Institute*

2023. Parkin, A., Savoie, J., The shift to working from home will be difficult to reverse *The Conversation*

2023. Parkin, A., Savoie, J., Breton, C., Ottawa favorise-t-il une région du pays? La réponse est en train de changer *Options Politiques*

2022. Breton, C., Parkin, A., Savoie, J., Les Québécois francophones se sentent regardés de haut *Options Politiques*

2022. Breton, C., Parkin, A., Savoie, J., Quebecers more pessimistic than ever about the future of the French language *Options Politiques*

2021. Parkin, A., Savoie, J., Who voted for the People's Party of Canada? Anti-vaxxers and those opposed to vaccine mandates *The Conversation*

2019. Fréchet, N., Dufresne, Y., Savoie, J., *La Génération Z sous la la loupe de la Boussole électorale* in \href{La Révolution Z. Comment les jeunes transformeront le Québec. Éditions La Presse. 200-212.

2018. Breton, C., Savoie, J., Quelles politiques influencent le vote des Québécois? *Options Politiques.*

2016. Savoie, J., Gélineau, F., Montigny, E., Note de recherche sur la participation électorale sur la période 1985-2014 *Chaire de recherche sur la démocratie et les institutions parlementaires.*

Working papers

Diamond, N. Savoie, J. Conway, L., *Platform-level social media use and its links to misinformation discernment.* PCO working paper.

Savoie, J. Diamond, N., Selarka, D., Pereira, B, Weiss, M. , *Wrong about each other: Widespread social misperceptions and their links to policy support, misinformation uptake, and public health.*

Montigny, E. Savoie, J., Ouimet, M. *Offre demande d'accès aux titulaires de charges publiques: une analyse par secteur au Québec*

Massie, J., Savoie, J., van der Linden, C. *Winning by a wedge? The role of vaccine mandates in the 2021 Canadian federal election*

Savoie., J., *From surface to core: a comparative analysis of shallow and deep learning interpretations in Canadian political discourse*

Savoie., J., *The meaning of 'nation' in Canada: À la carte embeddings in Canadian Parliamentary Debates*

Conference presentations

2022. Savoie, J. *Word embeddings for the analysis of the concept of the Canadian nation* Canadian Political Science Association. (Accepted but could not present due to birth of first child)

2021. Savoie, J, Sheluchin, A., van der Linden, Clifton, *Public Responses to a Common Good: Framing Mask Usage in Canada* Canadian Political Science Association.

2019. Bibeau-Gagnon, A., Dufresne, Y., Ouellet C., Savoie, J. *Bases of Support and Electoral Consequences of the Legalization of Marijuana in Canada* Canadian Political Science Association.

2019. Ouimet, M., Savoie, J., Montigny, E., *Unintended effects of Quebec health system reform on the disclosure of lobbying activities: an interrupted time-series study* CAHSPR Scientific Conference. Halifax.

2019. Donnelly, M., Islam, M., Savoie, J., Donnelly *The public face of interest group lobbying on immigration: who responds to and who ignores what they say.* International Workshop on Immigration and the Welfare State. Lausanne. Paper presented virtually.

2019. Brennan, A, Savoie, J. *Les cinq principes de la politique électorale: une analyse nord-américaine à l'échelle infranationale.* CSDC Student Conference. Québec city.

2017. Savoie, J.Gélineau, F. *The effects of Québec's Bill no2 amending the Election Act on Political Party Behaviour.* Annual Conference of the Southern Political Science Association. New-Orleans, LA.

2017. Savoie, J., Dufresne, Y., Temporao M. *Prediction Spillover: The effects of the national electoral race on local riding citizen forecasts.* Paper to be presented at the *Annual Conference of the Southern Political Science Association.* New-Orleans, LA. 12-14 January}

2016. Savoie, J. *Québec's Bill n°2 An Act to amend the Election Act: context, expectations and actuality.* Biennial Conference of the American Council for Québec Studies. Portland, ME. 4 November.

2016. Savoie, J. *Les effets de la réforme québécoise du financement des partis politiques sur la participation électorale.* Poster presentation at The State of Democratic Citizenship in Canada}. Montreal, QC.

Media interventions

2023. La Boussole électorale : Mieux connaître les partis de l'élection provinciale. *Radio de Radio-Canada.* Septembre 2023

2021. Ce que la boussole électorale révèle sur l'environnement. *Radio de Radio-Canada.* Septembre 2021

2021. La Boussole électorale de retour en Saskatchewan. *Interview.* Septembre 2021

2020. Boussole électorale : le gouvernement gère bien la pandémie, selon les répondants. *Interview.* Octobre 2020.

2020. Le nouveau Moniteur COVID-19 révèle que les Canadiens sont réceptifs aux conseils de santé publique, bien que la confiance envers la réponse gouvernementale varie. *Communiqué de presse.* Octobre 2020.

2019. Laissez-nous deviner pour qui vous allez voter. *Interview.* Octobre 2019.

2019. Découvrez l'entreprise ontarienne derrière la Boussole électorale. *Interview.* Septembre 2019.

2019. Recentré et censé être mieux géré, le Fonds vert changera de nom. *Interview.* Juin 2019.

2019. Les grands constats de la boussole électorale. *Interview.* Avril 2019.

2019. Environnement et économie : notre couverture en six articles. *Interview.* Avril 2019.

2019. Boussole électorale : quelle idée se fait-on des chefs?. *Interview.* Avril 2019.

2019. Boussole électorale : qui a gagné le débat des chefs?. *Interview.* Avril 2019.

2019. Boussole électorale : l'éducation fait consensus parmi les électeurs albertains. *Interview.* Mars 2019.

Service and leadership

Reviewer. *Canadian Journal of Political Science.*, *French Politics*

Delegate. CAPPA 2017 Case Competition. 2nd place out of 12 teams. 2017.

President. Association des politologues étudiants de l'Université Laval. 2016-2017.

Vice-president social activities. Association des politologues étudiants de l'Université Laval. 2016.

Fields of expertise

Applied statistical methodology, design and analysis of large-scale surveys, public opinion analysis, polling, voting advice applications, machine learning, text-as-data (word embeddings, SVD, Deep Learning), Canadian politics, comparative politics.

Software: R, Python, SQL, Stan, Git, Gephi

Additional methodological training

University of Toronto
POL2519 - Quantitative Methods and Data Analysis
POL2505 - Qualitative Methods in Political Research

ICPSR Summer Program in Quantitative Methods of Social Research. 2016
Regression III, Introduction to Bayesian analysis

Université Laval
POL-6003 Lectures dirigées: Revues systématiques et méta-analyses (Mathieu Ouimet)
ECN-3160 Économétrie appliquée
ECN-2010/2030 Théorie macroéconomique I/II
ECN-2010/2030 Théorie macroéconomique I/II

Teaching

Université Laval *Instructor* 2024 (winter) - 2025 (winter)

POL-7004 Analyse quantitative. Analyse de données portant sur un grand nombre de cas. Apprentissage de la programmation et des principales techniques d'analyse statistique : analyse de variance, corrélation, régression linéaire simple et multiple, régression logistique et analyse factorielle. Utilisation de ces techniques en laboratoire à l'aide de logiciels libres reconnus (R et LaTeX). Application dans une recherche empirique.

McMaster University *Instructor* 2022 (summer) - 2023 (fall)

Data Analysis for Public Policy I. Class taught in the Master of Public Policy in Digital Society. 2022 course material. 2023 course material.

University of Toronto *Workshop Instructor* 2022

Introduction to R, the Tidyverse Way (1/2 day workshop)

University of Toronto *Teaching Assistant* 2017-2022

POL-222 Introduction to Quantitative Reasoning I

POL-232 Introduction to Quantitative Reasoning II

POL-101 Introduction to Political Science

Université Laval *Teaching Assistant* 2016

POL-7004 Analyse quantitative (graduate class;2017)

Other employment

Impact and Innovation Unit - Privy Council Office *Behavioral Science Fellow* 2022-

Lead statistical analyst on TIDES (Trust Information and Digital Ecosystem Study). Survey data analysis (regression, Bayesian Model Averaging, unsupervised clustering, visualization, panel data analysis). Preparation of briefings and presentations to DM level.

Vox Pop Labs *Data Science Lead* 2020-2021

Statistical analysis, management and supervision of three MITACS interns, agile planning.

Vox Pop Labs *Data Scientist* 2017-2020

Statistical analysis, survey weighting, polling, multilevel regression and post-stratification, in-production algorithms (Factor analysis, Bayesian item-response theory), graph-network analysis.

Projects: Vote Compass (with CBC) (New Brunswick, Quebec, France, Germany, Brazil, Ontario, Canada, Australia, New Zealand, Alberta, British Columbia, Newfoundland and Labrador); Australia Talks (with Australian Broadcasting Corporation)

University of Toronto *Research Assistant* 2019

Manual and automated coding of video data (Chris Cochrane)

Université Laval *Research Assistant* 2015-2017

Manual and automated (rvest, RSelenium) coding of electoral data, various statistical and graph-network analysis, qualitative text analysis for the Commisaire au Lobbyisme du Québec, Literature reviews

L'Orange bleue affaires publiques *Communications Officer* 2014-2015

Main awards and scholarships

Social Sciences and Humanities Research Council Doctoral scholarship 60,000$ 2020-2022

Ontario Graduate Scholarship Doctoral scholarship 15,000$ 2018-2019

University of Toronto Doctoral fellowship 38,500$ 2017-2020

CECED Bourse de formation méthodologique 3000$ 2016

Université Laval Prix du meilleur travail présenté dans le cadre du cours d'économétrie appliquée 2015

Université Laval Bourse de mobilité 3250$ 2014