John Bernard Santos

Curriculum Vitae, June 2023

Contact

Department of Political Science, Western University (University of Western Ontario)
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Education

PhD in Political Science, University of Western Ontario (expected completion: 2025).

- Dissertation title: "What structures Canadians' environmental policy preferences?"
- Fields: Canadian Politics and Comparative Politics.

MA in Political Science, University of Calgary (2018).

- Thesis: "Direct and Indirect Effects of Authoritarianism on Policy Preferences in Canada." DOI:10.11575/PRISM/33072.
- Fields: Canadian Politics and Comparative Politics.

BA (Hons.) in Political Science, University of Calgary (2010).

Methods training:

- Maximum Likelihood Estimation (with Dave Armstrong, Western University, Fall 2021).
- Regression and Causal Inference (with Mathieu Turgeon, Western University, Fall 2021).
- Qualitative Methods (with Martin Horak, Western University, Winter 2021).
- Machine Learning (with Dave Armstrong, Western University, Fall 2020).
- Regression Analysis II (with Tim McDaniel, ICPSR, Summer 2017).
- Measurement, Scaling, and Dimensional Analysis (with Bill Jacoby, ICPSR, Summer 2017).
- Research Methods in Race and Ethnicity (with Ozan Kalkan and Jamil Scott, ICPSR, Summer 2017).

Technical skills:

- `R` and `RStudio`: advanced proficiency including programming, package development, `Shiny` apps, and basic web scraping and text analysis.

- `Stata`: intermediate proficiency (data management, modelling, descriptive statistics).
- `SPSS`: basic proficiency (data management, descriptive statistics).
- `Python`: some proficiency (web scraping).
- Statistical techniques:
    - OLS & MLE estimation and post-estimation
    - Analysis of survey data
    - Measurement models (EFA, PCA, IRT)
    - SEM (CFA, path analysis)
    - Cluster analysis (kmeans, LCA/LPA, model-based clustering, hierarchical clustering)
    - Text analysis (LDA/topic modelling)

Publications

Refereed Articles

Thomas, M., DeCillia, B., **Santos, J.B.**, & Thorlakson, L. (2021). "Great Expectations: Public Opinion About Energy Transition." *Energy Policy.* 162. https://doi.org/10.1016/j.enpol.2022.112777.

Book Chapters

Lucas, J. & **Santos, J.** (2021). "Calgary: October 16, 2017." In *Big City Elections in Canada*, Jack Lucas and R. Michael McGregor, Eds. Toronto : University of Toronto Press. https://utorontopress.com/9781487528560/big-city-elections-in-canada/.

Brown, J. & **Santos, J.B.** (2019). "Marginally Better: Polling in the 2015 Alberta Election." In *Orange Chinook: Politics in the New Alberta*, Duane Bratt, Keith Brownsey, Richard Sutherland, and David Taras, Eds. Calgary: University of Calgary Press. https://press.ucalgary.ca/books/9781773850252/.

Software

Santos, J. & Armstrong, D. *svyEffects: Average marginal effects with bootstrapped confidence intervals for binary, ordered, and multinomial logit models of survey-weighted data.* https://github.com/jb-santos/svyEffects.

Awards and Scholarships

External

2021-2024: Social Sciences and Humanities Research Council of Canada (SSHRC) Joseph-Armand Bombardier Canadian Graduate Scholarship – Doctoral ($105,000).

2021-2022: Ontario Graduate Scholarship ($15,000). (declined)

2020-2021: Ontario Graduate Scholarship ($15,000).

2017-2018: Alberta Graduate Student Scholarship ($3,000).

2017-2018: Alberta Queen Elizabeth II Graduate Scholarship ($10,800).

2016-2017: Alberta Queen Elizabeth II Graduate Scholarship ($7,200).

Internal

2018: University of Calgary Department of Political Science Thesis Completion Award ($750).

2018: Best MA Term Paper Award, "Bringing the Mind Back In: Why Political Science Needs More Psychology," for POLI 673, Comparative Politics – Institutions.

2016: University of Calgary Department of Political Science Special Recruitment Award for Politics and Gender ($1,000).

Conference Presentations

Santos, John. "svyEffects: An R package for calculating predicted probabilities and their differences for survey-weighted logit models." Paper presented at MapleMeth 2023. Western University, London, Ontario, Canada. January 2023.

Santos, John. "General political knowledge, climate knowledge, political orientations, and carbon tax support in Canada." Paper presented at the ReClimate workshop on climate change misinformation. Carleton University, Ottawa, Ontario, Canada. January 2023.

Decillia, Brooks, John Santos, and Melanee Thomas. "Partisan and ideological compatriots' cueing to political rhetoric in the news media about the economy and energy transition in Alberta." Paper presented at the annual meeting of the Canadian Political Science Association. Online. June 2021.

Decillia, Brooks, John Santos, and Janet Brown. "Media Narratives and Polling in the 2019 Alberta Election." Paper presented at the annual meeting of the Prairie Political Science Association. Banff, Alberta, Canada. September 2019.

Sayers, Anthony M, David K. Stewart, and John Santos. "Four Decades of Dominance: Explaining the Tory Dynasty in Alberta." Paper presented at the annual meeting of the Canadian Political Science Association. Vancouver, British Columbia, Canada. June 2019.

Santos, John. "Authoritarianism and Policy Preference in Canada: The Case of the Niqab Ban." Paper presented at the annual meeting of the Prairie Political Science Association, Banff, Alberta, Canada, September 2018. Santos, John.

"Talking About Terror: Authoritarian-Libertarian Dimensions in Parliamentarians' Speeches in the House of Commons." Paper presented at the annual meeting of the Prairie Political Science Association, Banff, Alberta, Canada. September 2017.

Bratt, Duane, Janet Brown and John Santos. "Sign Wars: Election Signs in the 2014 Alberta by-elections." Paper presented at the annual meeting of the Prairie Political Science Association. Banff, Alberta, Canada. September 2015.

Teaching

Workshop facilitation

Facilitator for student workshops held by the Graduates' Association for Political Science, Western University:

- "Writing Loops and Functions in R," 17 February 2023.
- "Intro to R," 29-30 August 2022.
- "R:ggplot Tips and Tricks," 7 April 2021.

Facilitator for student workshops held by the Political Science Graduate Students' Association, University of Calgary:

- "Data Visualization in Excel," 4 April 2018.
- "Intermediate SPSS: Coding and Workflow," 22 November 2018.
- "Intermediate SPSS: Coding and Workflow," 14 March 2018.
- "Data Visualization in Excel," 27 November 2017.
- "Coding in SPSS," 22 April 2017.

Co-facilitator at Workshops on Social Science (WSSR), Concordia University:

- "Public Opinion and Polling: Is Western Alienation for Real?" Workshop co-facilitated with Janet Brown and the Workshops on Social Science (WSSR) at Concordia University, Montreal, 14 February 2020.
- "Public Opinion and Polling: Understanding Alberta's Political Culture." Workshop co-facilitated with Janet Brown and the Workshops on Social Science (WSSR) at Concordia University, Montreal, 1 February 2019.

Guest lectures

"RDD and online panel sampling in market research," STAT423 (Statistical Analysis of Survey Data) for Jim Stallard, University of Calgary, 12 March 2021.

"A (former) pollster's perspective on survey research," CRIM2303A (Research Methods) for Carolyn Gordon, University of Ottawa, 17 November, 2020.

"Focus groups," POST 2208 (Qualitative Research Methods) for Duane Bratt, Mount Royal University, 10 February 2020.

"A pollster's perspective on political research," POLI 429 (Electoral Behaviour) for Melanee Thomas, University of Calgary, 23 February 2020.

"Focus groups," POST 2208 (Qualitative Research Methods) for Duane Bratt, Mount Royal University, 3 December 2018.

"Legislatures," POLI 321 (Intro to Canadian Politics) for Anthony Sayers, May 29, 2018.

"Applying what you learn in POLI 399 beyond the classroom (or, how to get a job with a political science degree)," POLI 399 (Quantitative Research Methods) for Melanee Thomas, University of

Calgary, 6 March 2018.

"What structures political attitudes when ideology doesn't?" POLI 429 (Electoral Behaviour) for Melanee Thomas, University of Calgary, 6 March 2018.

"Statist versus cosmopolitan responses to terrorism," POLI 439 (Strategic Studies) for Rob Huebert, University of Calgary, 3 March 2018.

Teaching assistant experience

PS 9591B (Quantitative Methods II: Regression and Causal Inference) for Mathieu Turgeon, Western University, Winter 2023.

PS 2545G (Comparative Politics) for Bruce Morrison, Western University, Winter 2022.

POLI 439 (Strategic Studies) for Rob Huebert, University of Calgary, Winter 2018.

POLI 399 (Quantitative Research Methods) for Kim-Lee Tuxhorn, University of Calgary, Fall 2017.

POLI 399 (Quantitative Research Methods) for Brenda O'Neill, University of Calgary, Winter 2017.

POLI 399 (Quantitative Research Methods) for Melanee Thomas, University of Calgary, Fall 2016.

Non-academic Publications and Activities

Santos, John. "CBC poll: Results give us an idea of who the vaccine hesitant in Alberta really are." CBC News. 14 May, 2021. https://www.cbc.ca/news/canada/calgary/road-ahead-poll-alberta-covid-vaccine-hesitant-1.6024067.

Santos, John. "Partisan biases influence 'the truths we cling to' about Alberta's economy." CBC News. 15 May, 2018. https://www.cbc.ca/news/canada/calgary/partisan-lenses-colour-albertans-view-economic-recovery-1.4655284.

Bratt, Duane, Janet Brown, and John Santos. "Signs point to a Hehr win in Calgary-Centre." Calgary Herald. 15 October 2015. https://calgaryherald.com/opinion/columnists/opinion-signs-point-to-hehr-win-in-calgary-centre.

Political commentator for "Alberta Primetime" on CTV2, CityTV Calgary, and CBC Calgary.

Presenter for Lunchalytics data analyst meet-up group:

- 15 May 2019, Edmonton. "Problems with Polling in Alberta."
- 3 December 2019, Calgary. "Alberta's Political Culture."

Professional Affiliations

- Canadian Political Science Association
- Prairie Political Science Association
- American Association of Public Opinion Research

Before starting my PhD, I worked as Data Scientist for Janet Brown Opinion Research, a Calgary-based public opinion research firm from 2013 to 2021.