Data Services
at Carleton University

Jane Fry
March 5, 2019
Outline

- What do we offer?
- How to access the data?
- How else can we help you?
- Social Work Resources
Data

Need Canadian data? Start here if you're on campus

Search

Off-campus or need more search options? Visit the <odesi> website for full access.

Need International data? Start here

Search ICPSR or access ICPSR resources.

Research Data Management: Manage your data

Dataverse: Store your data

Contact
Data Services
email

Related Links
<odesi>

Related Help
Citing Data and Statistics
Statistical Literacy Tutorial
Surveys: Which survey is right for you?

Related Services
Statistical Consulting

Related Policies

https://library.carleton.ca/find/data
What do we offer?

- **Main services**
  - Access to data
    - different data sources and portals
    - different types of data
  - Research Data Management
    - Data management plans
  - Stats Consulting
    - SPSS, Stata, SAS, R

- **One restriction for data use**
  - Can ONLY be used for academic research or teaching
Canadian data sources

- **Statistics Canada**
  - Data Liberation Initiative
  - Includes
    - *All Statistics Canada’s public use data files, databases and geographic files*
What's the most important issue facing Canadians today?

A public opinion poll is a survey of public opinion about social, economic, and political issues. This collection contains over a thousand polls ranging from the 1940s to the present, from polling organizations such as Gallup Canada, Ipsos Reid, and Léger Marketing.

Learn more about using public opinion polls in <odesi>

Contents:

- Canadian Public Opinion Polls Collection
- Collection Coverage, Topics & More
- Searching & Browsing the POP Collection
- Contributing Universities

https://library.carleton.ca/find/data
Angus Reid Institute (ARI)
- Assisted Suicide, 2014 [Canada]
- Baggage Fees, 2014 [Canada]
- Canadian Football League (CFL), 2014
- Canadian Perceptions of India and Trade 2015
- Concussion and Youth Sports [Canada], 2015
- Disability and Accessibility, 2015 [Canada]
- Disability in Canada, 2016 [General Population Sample]
- Disability in Canada, 2016 [Disabled Sample] NEW
- Disasters, 2015 [Canada]
- Election 2015 [Canada]
- Election 2015: The Politics of Health Care [Canada]
- Energy Industry, 2014 [Canada]
- Gender, Sports, and the Women's World Cup, 2015 [Canada]
- Global Threats, 2014 [Canada]
- Hockey Night in Canada Year in Review, 2015
- Hockey Night in Canada, 2014
- Prayer in Canadian Public Life, 2015 [Canada]
- Religion and Faith in Canada Today, 2015 [Canada]
- Sexual Harassment in the Workplace, 2014 [Canada]
- Truth and Reconciliation Commission, 2015 [Canada]
- Centre for Research and Information on Canadians (CRIC)
Canadian data sources (cont’d)

- **Other surveys**
  - Canadian Election Surveys (1965 – 2011)
  - Millennium Scholarship Foundation
    - *Education Surveys*
      - Student Financial Survey, 2001 - 2002
      - Ontario University Applicant Survey, 2005
How do you access the data?

- **Different data portals**
  - Search for questions or variables across datasets
  - Perform online analyses
  - Create tables, graphs and charts
  - Download data in SPSS, SAS, Stata, …
Canadian data portals

- **ODESI**
  - Data portal for social science data for Ontario Universities
  - Data from StatCan, public opinion polls, …
  - [http://www.library.carleton.ca/find/data](http://www.library.carleton.ca/find/data)

- **Statistics Canada**
  - Public use microdata files (E/F)
  - Metadata for Research Data Centre Master files (E/F)
How to Use ODESI

Using the <odesi> data repository

▪ <odesi>: Navigating the <odesi> Repository
▪ <odesi>: Searching for Variables
▪ <odesi>: Finding, Subsetting and Downloading a Survey
▪ <odesi>: Creating a Cross Tabulation
▪ <odesi>: Downloading a Full Dataset

<odesi> help guides

▪ Finding, Subsetting and Downloading a Survey in <odesi> (.pdf)
▪ Searching for variables (.pdf)

https://library.carleton.ca/help/odesi-how-to-use-odesi
International Data Sources

ICPSR

- Inter-university Consortium for Political and Social Research
- [https://www.icpsr.umich.edu/](https://www.icpsr.umich.edu/)
- World renowned summer program in quantitative methods of social statistics
Thematic Collections

Teaching and Learning
- Child Care and Early Education Research Connections
- The Education Research Data Sharing Initiative
- Measures of Effective Teaching Longitudinal Database

Health/Mental Health
- Health and Medical Care Archive
- National Addiction & HIV Data Archive Program
- Multiple Chronic Conditions Research Network Data Archive

https://www.icpsr.umich.edu/icpsrweb/content/about/thematic-collections.html
- **ISSP**
  - International Social Survey Programme
  - Continuing, annual program of cross-national collaboration
  - Started in 1984
  - Recurring themes
<table>
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<tr>
<th>North America</th>
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Globalization of Personal Data (GPD)

- Implications of processing personal and population data in electronic format

- Canada, USA, France, Spain, Hungary, Mexico, Brazil, China, Japan

- 2006
- Follow-up surveys
  - 2012, 2014
International Data Portals

- **CESSDA**
  - Consortium of European Social Science Data Archives
  - [http://www.cessda.eu/](http://www.cessda.eu/)

- **GESIS**
  - Leibniz Institute for the Social Sciences
  - [https://www.gesis.org/home/](https://www.gesis.org/home/)

- **ESS ERIC**
  - European Social Survey, European Research Infrastructure
  - [http://www.europeansocialsurvey.org/](http://www.europeansocialsurvey.org/)
COOL Research Data Centre

- Located at University of Ottawa
  - available for all Carleton researchers
- Secure access to detailed microdata from Statistics Canada's surveys, Canadian censuses' data, as well as an increasing number of administrative data sets.
- Data can only be used for research and teaching purposes
  - Check out metadata here:
    - “Statistics Canada metadata for Master Files (RDC)”
- Money for grad students!

Reference: Prof. Jennifer Stewart
Recent RDC Data additions

December 2018
- DES (Digital Economy Survey) 2018
- EIB (Employment Insurance Beneficiaries) January 1997 - June 2018
- EICS (Employment Insurance Coverage Survey) 2017
- LFS (Labour Force Survey) November 2018
- LISA (Longitudinal and International Study of Adults) 2016
- ROE (Record of Employment) 1987 - current

November 2018
- APS (Aboriginal Peoples Survey) 2017
- CTADS (Canadian Tobacco Alcohol and Drugs Survey) 2017
- ELMLP (Education and Labour Market Longitudinal Linkage Platform)
- NCS (National Cannabis Survey) 2018 Wave 3
- LAD (Longitudinal Administrative Databank) 2016
- LFS (Labour Force Survey) October 2018

Reference: Prof. Jennifer Stewart
What else can we do to help you?

- Consultation
  - on the use of data
  - Research data management (RDM)
    - *RDM Plans*

- Provide general tips and help on using data
**Tips**

- **Things to remember about surveys**
  - Sponsorship
  - Who collected the data
  - Does the author use anecdotal evidence when data is available

- **Think!**
Correlation: 94.71% (r=0.947091)

Reference: http://www.tylervigen.com/spurious-correlations
Per capita cheese consumption correlates with Number of people who died by becoming tangled in their bedsheets

Correlation: 94.71% (r=0.947091)

Date sources: U.S. Department of Agriculture and Centers for Disease Control & Prevention

Reference: http://www.tylervigen.com/spurious-correlations
Reference: Fox News (December 12, 2011)
http://flowingdata.com/category/statistics/mistaken-data/
Reference: Winnipeg Sun (2013)
http://flowingdata.com/category/statistics/mistaken-data/
Reference: Fox News (2009)
http://flowingdata.com/category/statistics/mistaken-data/
Everything about this picture is amazing.

Reference: https://twitter.com/DavidKenner/status/497301669676187648
Don’t be afraid to Dig!

- Political Persuasion and Attitude Change Study: The Los Angeles Longitudinal Field Experiments, 2013-2014
- Principal Investigator: Michael J. LaCour

Reference: https://www.openicpsr.org/openicpsr/project/100037/version/V8/view
Irregularities in LaCour (2014)

David Broockman, Assistant Professor, Stanford GSB (as of July 1), dbroockman@stanford.edu
Joshua Kalla, Graduate Student, UC Berkeley, kalla@berkeley.edu
Peter Aronow, Assistant Professor, Yale University, peter.aronow@yale.edu
May 19, 2015

Summary

We report a number of irregularities in the replication dataset posted for LaCour and Green (Science, “When contact changes minds: An experiment on transmission of support for gay equality,” 2014) that jointly suggest the dataset (LaCour 2014) was not collected as described. These irregularities include baseline outcome data that is statistically indistinguishable from a national survey and over-time changes that are unusually small and indistinguishable from perfectly normally distributed noise. Other elements of the dataset are inconsistent with patterns typical in randomized experiments and survey responses and/or inconsistent with the claimed design of the study. A straightforward procedure may generate these anomalies nearly exactly: for both studies reported in the paper, a random sample of the 2012 Cooperative Campaign Analysis Project (CCAP) form the baseline data and normally distributed noise are added to simulate follow-up waves.

Timeline of Disclosure

- January - April, 2015. Broockman and Kalla were impressed by LaCour and Green (2014) and wanted to extend the article’s methodological and substantive discoveries. We began to plan an extension. We sought to form our priors about several design parameters based on the patterns in the original data on which the paper was based, LaCour (2014). As we examined the study’s data in planning our own studies, two features surprised us: voters’ survey responses exhibit much higher test-retest reliabilities than we have observed in any other panel survey data, and the response and reinterview rates of the panel survey were significantly higher than we expected. We set aside our doubts about the study and awaited the launch of our pilot extension to see if we could manage the same parameters. LaCour and Green were both responsive to requests for advice about design details when queried.

Reference: http://stanford.io/2bzRWFo
When contact changes minds: An experiment on transmission of support for gay equality

Michael J. LaCoursière, Donald P. Green

Author Affiliations

Science 12 Dec 2014; Vol. 346, Issue 6215, pp. 1366-1369
DOI: 10.1126/science.1256151

This article has been retracted. Please see:
Is retracted by - June 05, 2015

Reference: http://bit.ly/1NxWG5M
“New Study Links Vaccines To Autism. There's Just One Tiny Problem With It”

“... one of its own co-authors claimed that figures in the paper were deliberately altered before publication. The data had been tampered with. ...”

RETRACTED: Subcutaneous injections of aluminum at vaccine adjuvant levels activate innate immune genes in mouse brain that are homologous with biomarkers of autism

Dan Li a, Lucija Tomljenovic a, Yongling Li a, Christopher A. Shaw a, b, c, d, e

Show more

https://doi.org/10.1016/j.jinorgbio.2017.08.035

Under a Creative Commons license
“Researchers from the University of British Columbia are retracting their scientific paper linking aluminum in vaccines to autism in mice, because one of the co-authors claims figures published in the study were deliberately altered before publication — an issue he says he realized after allegations of data manipulation surfaced online.”

“…original data cited in the study is inaccessible, which would be a contravention of the university’s policy around scientific research.”

“…the original data is in China, with an analyst who worked on the paper.”

(October 16, 2017)

Source: https://bit.ly/2kSjMRJ
- **Very important**
  - All data should be cited

- **How to cite StatCan products**
  - [http://www.statcan.gc.ca/pub/12-591-x/12-591-x2009001-eng.htm](http://www.statcan.gc.ca/pub/12-591-x/12-591-x2009001-eng.htm)

Social Work Resources

- ODESI
  (http://www.library.carleton.ca/find/data)
  - Microdata files
    - Canadian Community Health Survey (2001-2002 to 2014)
    - Canadian Alcohol and Drug Use Monitoring Survey (2008 to 2012)
    - Truth and Reconciliation Commission, 2015
    - Charter of Rights and Freedom, 2002
    - Canadian Addiction Survey, 2004
  - Aggregate data files
    - Census of Population
      - Population and Dwelling Counts
      - Profiles
Social Surveys

CANADA
- Canada Survey of Giving, Volunteering and Participating (CSGVP)
- Family History Survey
- General Social Survey (GSS)
- International Social Survey Programme [Canada] (ISSP)
- International Youth Survey
- Leisure Time Activity Survey
- Male-Female Dating Relationships in Canadian Universities and Colleges
- Multiculturalism Attitudes Survey
- National Child Care Survey
- National Household Survey (NHS)
- National Longitudinal Survey of Children and Youth (NLSCY)
- National Private Vehicle Use Survey (NPVUS)
- National Survey of Giving, Volunteering and Participating (NSGVP)
- Ontario Material Deprivation Survey
- Social Change in Canada (Quality of Life Survey)
- Survey of Volunteer Activity (SVA)
- Violence Against Women Survey (VAWS)

INTERNATIONAL
- Discrimination and Hate Crimes against Jews in EU (DHCAJ)
- Globalization of Personal Data (GPD)
- Lesbian, Gay, Bisexual and Transgender (LGBT) Survey
- Privacy and Surveillance: GPD Follow-up
- Roma Pilot Survey (RPS)
- Violence Against Women (VAW) Survey
Statistics by subject

- Aboriginal peoples
- Agriculture
- Business, consumer and property services
- Business performance and ownership
- Children and youth
- Construction
- Crime and justice
- Culture and leisure
- Economic accounts
- Education, training and learning
- Energy
- Environment
- Ethnic diversity and immigration
- Families, households and housing
- Government
- Health
- Income, pensions, spending and wealth
- Information and communications technology
- International trade
- Labour
- Languages
- Manufacturing
- Population and demography
- Prices and price indexes
- Reference
- Retail and wholesale
- Science and technology
- Seniors
- Society and community
- Statistical methods
- Transportation
- Travel and tourism

https://www.statcan.gc.ca/eng/subjects
Society and community

Keyword(s)

Search title, description, etc.

Subject

Cannabis
Civic participation
Equity and inclusion
Religion
Rural Canada
Social and personal networks
Time use
Volunteering and donating
Women and gender
Other content related to Society and community

Sort by date

All (869) Data (184) Analysis (651) Reference (34)

1. Incorporating the cannabis market in the national economy

Articles and reports: 13-605-X201900100003
Description: The fourth quarter 2018 release of the national economic and social indicators, the legal and illegal economic activities related to cannabis products.
More
Release date: 2019-03-01

2. Prevalence of cannabis consumption in Canada

Table: 36-10-0597-01
Geography: Canada
Frequency: Annual
Description: Consuming population of cannabis and volume consumed for frequency of use, Canada, annual.
Release date: 2019-03-01

https://www150.statcan.gc.ca/n1/en/subjects/society_and_community
Who else can help?

- Research Help in the Library

https://library.carleton.ca/services/research-help
In sum.

- **We have seen**
  - Where to get help with Data
  - What data services we offer
  - Different data sources and how to access them
  - What other services we offer
  - Different Social Work resources
Wednesday January 06, 2016  Three Problems With Spreadsheet

DID YOU SEE ANY ERRORS ON THE SPREADSHEET I PUT TOGETHER?

ONLY THREE.

WHAT ARE THEY?

YOUR DATA, YOUR FORMAT, AND YOUR FORMULAS.
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http://www.library.carleton.ca/find/data