

Matthew D. Webb

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Current Position

Associate Professor, Department of Economics, Carleton University 2021-present

Previous Positions

Assistant Professor, Department of Economics, Carleton University 2015-2021
Parental Leaves: Winter 2019, Winter 2021
Eyes High Postdoctoral Scholar, Department of Economics, University of Calgary 2013-2015
Supervisor: M. Scott Taylor

Education

Ph.D., Economics, Queen's University 2013
Thesis Title: "Econometric Analysis of Labour Market Interventions"
Supervisors: Steven F. Lehrer, James G. MacKinnon
M.A. Business Economics, Wilfrid Laurier University 2007
B.A. Honours Economics, Wilfrid Laurier University 2006

Research Interests

Applied Microeconometrics, Empirical Microeconomics.

Grants and Awards

National Research Council - Research Contract (co-PI) \$91,638 2024-2026
SSHRC - Insight Grant (PI) \$88,750 2021-2025
Carleton University - Faculty of Public Affairs, Covid Productivity Grant \$5,000 2021
CIHR - Project Grant (Co-Investigator), \$371,971 2021-2024
my allocation, approx. \$80,000
Carleton University - Faculty of Public Affairs, Research Internship Award \$10,500 2020
Carleton University - Research Achievement Award, \$15,000 2019
Productivity Partnership (co-PI), \$15,000 2018
SSHRC - Insight Grant (PI), \$91,380 2016-2020
SSHRC - Insight Development Grant (PI), \$47,436 2014-2016

Educational Policy Research Initiative (co-PI), \$5,000	2013
John Deutsch Institute Doctoral Stipend	2012
E.G. Bauman Fellowship	2008-2009

Economics Publications

- (16) “Leverage, Influence, and the Jackknife in Clustered Regression Models: Reliable Inference Using *summmclust*”
with James G. MacKinnon and Morten Ørregaard Nielsen
Stata Journal - 23(4) pp. 942–982, 2023
- (15) “Testing for the Appropriate Level of Clustering in Linear Regression Models ”
with James G. MacKinnon and Morten Ørregaard Nielsen
Journal of Econometrics - 235, 2027-2056, 2023
- (14) “Fast and Reliable Jackknife and Bootstrap Methods for Cluster-Robust Inference”
with James G. MacKinnon and Morten Ørregaard Nielsen
Journal of Applied Econometrics 38(5) pp. 671-694, 2023
- (13) “Finish It and It’s Free: An Evaluation of College Graduation Subsidies”
with Derek Mikola
Economics of Education Review - 93, 102355, 2023
- (12) “Reworking Wild Bootstrap Based Inference for Clustered Errors”
Canadian Journal of Economics - 56(3), pp. 839–858, 2023
- (11) “Cluster-Robust Inference: A Guide to Empirical Practice ”
with James G. MacKinnon and Morten Ørregaard Nielsen
Journal of Econometrics - 232(7) pp.272-299, 2023
- (10) “Clustering Methods for Statistical Inference”
with James G. MacKinnon
Handbook of Labor, Human Resources and Population Economics
Working paper version: “When and How to Deal With Clustered Errors in Regression Models”
- (9) “Bootstrap and Asymptotic Inference with Multiway Clustering”
with James G. MacKinnon and Morten Ørregaard Nielsen
Journal of Business and Economics Statistics - 39(2) pp. 505-519
- (8) “Randomization Inference for Difference-in-Differences with Few Treated Clusters”
with James G. MacKinnon
Journal of Econometrics - 218(2) pp. 435–450
- (7) “A Simple, Graphical Procedure for Comparing Multiple Treatment Effects”
with Brennan Thompson
The Econometrics Journal - 22(2) pp. 188–205, 2019
- (6) “Fast and Wild: Bootstrap Inference in Stata Using *boottest*”
with David Roodman, James G. MacKinnon, and Morten Ørregaard Nielsen
Stata Journal - 19(1) pp. 4–60, 2019

- (5) “Wild Bootstrap Randomization Inference for Few Treated Clusters”
with James G. MacKinnon
Advances in Econometrics vol. 39 - *The Econometric of Complex Survey Data* pp. 61–85, 2019
- (4) “Immigrant Category of Admission of the Parents and Outcomes of the Children: How far does the Apple Fall?”
with Casey Warman and Chris Worswick
Journal of Population Economics - 32(1) pp. 53–112, 2019
- (3) “The Wild Bootstrap for Few (Treated) Clusters”
with James G. MacKinnon
The Econometrics Journal - 21(2) pp. 114–135, 2018
- (2) “Wild Bootstrap Inference for Wildly Different Cluster Sizes,”
with James G. MacKinnon
Journal of Applied Econometrics 32(2) pp. 233–254, 2017
- (1) “Targeting Tax Relief at Youth Employment,”
with Arthur Sweetman and Casey Warman
Canadian Public Policy 42(4) pp. 415–430, 2016

Non-Economics Publications

- (3) “Impact of a peer comparison intervention on seasonal influenza vaccine uptake in community pharmacy: a national cluster randomized study”
Authors: Matthew M. Loiacono, Christopher B. Nelson, Paul Grootendorst, **Matthew D Webb**, Laura Lee Hall, Jeffrey C. Kwong, Nicholas Mitsakakis, Stacy Zulueta, Ayman Chit
Journal of the American Pharmacists Association - 61(5) pp. 539-546, 2021
- (2) “Randomization Inference for Accounting Researchers”
with Roger White
Journal of Financial Reporting - 6(2) pp. 129-141, 2021
- (1) “Pitfalls when Estimating Treatment Effects Using Clustered Data”
with James G. MacKinnon
The Political Methodologist - 24(2) pp. 20–31, 2017

Papers Under Revision or Review

- “The Many Misspellings of Albuquerque: A Comment on ‘Sorting or Steering: The Effects of Housing Discrimination on Neighborhood Choice’ ”
with Shi Chen, Areez Gangji, Sunny Karim, and Anthony McCanny
Revisions Requested and Resubmitted at *Journal of Political Economy*
- “An Experimental Test of the No Safety Schools Theorem”
with David B. Johnson
previously titled “One Sided Matching: Choice Selection With Rival Uncertain Outcomes,”
Revisions Requested at *Journal of the Economic Science Association*

Research Papers

“Good Controls Gone Bad: Difference-in-Differences with Covariates”

with Sunny Karim

“Jackknife Inference with Two-Way Clustering”

with James G. MacKinnon and Morten Ørregaard Nielsen

“Cluster-robust jackknife and bootstrap inference for binary response models”

with James G. MacKinnon and Morten Ørregaard Nielsen

“Using Images as Covariates: Measuring Curb Appeal with Deep Learning”

with Ardyn Nordstrom and Morgan Nordstrom

“Difference-in-Differences with Unpoolable Data ”

with Sunny Karim, Nicole Austin, and Erin Strumpf

“Gun Licenses, Restricted Firearms, Deaths and Crime: Results from Administrative Data in Canada”

with Derek Mikola

Software Packages

twowayjack - two-way jackknife cluster robust inference with linear models

<https://github.com/mattdwebb/twowayjack>

logitjack - jackknife cluster robust inference with logit models

<https://github.com/mattdwebb/logitjack>

summclust - jackknife cluster robust inference with linear models

<https://github.com/mattdwebb/summclust>

mnwsvt - a test for the level of clustering

<https://github.com/mattdwebb/mnwsvt>

Teaching Experience

Graduate

Microeconometrics (Econ 5712), **Carleton University** (3)

Special Topics - Economic Data Science (Econ 5880), **Carleton University** (1)

Econometrics I (Econ 5027) [Master's], **Carleton University** (5)

Labour Economics II (Econ 5362) [PhD; co-taught], **Carleton University** (2)

Undergraduate

Honours Capstone Seminar (Econ 4905), **Carleton University** (3)

Statistical Analysis in Economics (Econ 4002), **Carleton University** (6)

Statistical Methods in Economics and Business I (Econ 2201), **Carleton University** (4)

Economics of the Environment (ECE 444), **Royal Military College** (1)

Introduction to Microeconomics (EC 120), **Wilfrid Laurier University** (1)

Professional Activities

Invited Seminars and Talks

2024: University of Victoria, Victoria; Indiana University, Bloomington
2023: University of Graz, Graz, Austria
2022: York University, Toronto (virtual); University of Toronto, Toronto
2021: The 2021 Stata Economics Virtual Symposium, (virtual); Lakehead University, Thunder Bay
2020: Université de Montréal, Montreal (virtual)
2019: McMaster University, Hamilton
2018: Canadian Mortgage and Housing Corporation (CMHC), Ottawa
2017: Vancouver School of Economics (UBC), Vancouver
2016: McMaster University, Hamilton; Dalhousie University, Halifax; NYU-Shanghai, Shanghai, China; Lakehead University, Thunder Bay; University of Ottawa, Ottawa
2015: Queen's University, Kingston; Carleton University, Ottawa; Department of Finance, Ottawa
2014: Bank of Canada, Ottawa; Ryerson University, Toronto; Wilfrid Laurier University, Waterloo; Université du Québec à Montréal, Montreal
2013: *Are You Sure That is the Right Answer? Robust Inference and Policy Evaluation*, Programme Evaluation for Policy Analysis (PEPA), London, England

Conference and Poster Presentations (P)

“Improved Cluster Robust Inference for 2x2 Difference-in-Differences”

Southern Economics Association, Washington D.C. 2024

“Cluster-Robust Jackknife and Bootstrap Inference for Binary Response Models”

International Association for Applied Econometrics, Thessaloniki, Greece 2024

“Using Images as Covariates: Measuring Curb Appeal with Deep Learning”

Canadian Econometric Study Group, Toronto (P) 2024

17th International Conference on Computational and Financial Econometrics, Berlin (virtual) 2023

“Difference-in-Differences with Unpoolable Data”

Canadian Economics Association, Toronto, 2024

Southern Economics Association, New Orleans 2023

“Jackknife Methods for Improved Cluster Robust Inference”

Southern Economics Association, New Orleans 2023

Canadian Stata Conference, Toronto 2023

“A Cluster-Robust Jackknife Variance Matrix Estimator for Binary Response Models”

Canadian Econometric Study Group, Hamilton (P) 2023

Canadian Economics Association, Winnipeg 2023

“Leverage, Influence, and the Jackknife in Clustered Regression Models: Reliable Inference Using summclust”

Atlantic Canada Economics Association, Halifax	2022
Canadian Economics Association, Ottawa	2022

“Testing for the Appropriate Level of Clustering in Linear Regression Models”

APPAM Fall Research Conference (2021-delayed), Austin	2022
Canadian Econometrics Study Group, Vancouver	2021
Western Economics Association International, Honolulu (virtual)	2021
Southern Economics Association, New Orleans (virtual)	2020
FPA Research Series, Economic Insights, Ottawa	2020
Canadian Economics Association, Montreal	2018

“When and How to Deal With Clustered Errors in Regression Models ”

Western Economics Association International, San Francisco	2019
Canadian Economics Association, Banff	2019
CIREQ:Recent Advances in Bootstrap Methods, Montreal (P)	2019

“Fast and wild: Bootstrap inference in Stata using boottest ”

Stata Users Group Meeting, Vancouver	2018
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“Wild Bootstrap Randomization Inference for Few Treated Clusters”

Camp Econometrics, Bolton Landing (P), NY	2018
The Econometrics of Complex Survey Data, Ottawa	2017

“Bootstrap and Asymptotic Inference with Multiway Clustering”

Joint Statistical Meeting, Vancouver	2018
International Association for Applied Econometrics, Montreal	2018
North American Summer Meeting of the Econometric Society, Davis, CA	2018
Southern Economics Association, Tampa	2017
Canadian Econometrics Study Group, Toronto	2017
Stata Users Group Meeting (P), Ottawa	2017
Canadian Economics Association, Antigonish, NS	2017

“The Subcluster Wild Bootstrap for Few (Treated) Clusters”

European Meeting of the Econometric Society, Lisbon, Portugal	2017
International Association of Applied Econometrics, Sapporo, Japan	2017
Society of Labour Economics, Raleigh, NC	2017
Camp Econometrics (P), Lake Placid , NY	2017
Southern Economics Association Conference, Washington D.C.	2016
Atlantic Canada Economics Association Conference, Sackville, NB	2016

Canadian Econometrics Study Group, London, ON	2016
Calgary Empirical Microeconomics Workshop (P), Banff	2016
<i>“One Sided Matching: Choice Selection With Rival Uncertain Outcomes”</i>	
Atlantic Canada Economics Association, Antigonish, NS	2017
American Economics Association Annual Meeting (P), Chicago	2017
Western Economics Association, Portland	2016
<i>“Randomization Inference for Difference-in-Differences with Few Treated Clusters”</i>	
International Association for Applied Econometrics, Milan, Italy	2016
Society of Labor Economists (P), Seattle	2016
<i>“Finish It and It’s Free: An Evaluation of College Graduation Subsidies”</i>	
International Workshop on Applied Economics of Education, Catanzaro, Italy	2016
Canadian Public Economics Group, Kelowna	2015
World Congress of the Econometric Society, Montreal	2015
Society of Labor Economists, Montreal	2015
Canadian Economics Association Meeting, Toronto	2015
Southern Economics Association Conference, Atlanta	2014
Atlantic Canada Economics Association Conference, Truro, NS	2014
<i>“A Simple, Graphical Procedure for Comparing Multiple Treatment Effects”</i>	
Stata Users Group Meeting, Ottawa	2017
Joint Statistical Meetings, Chicago	2016
Canadian Economics Association Meeting, Ottawa	2016
Southern Economic Association Conference, New Orleans	2015
Canadian Econometrics Study Group (P), Guelph, ON	2015
Calgary Empirical Microeconomics Workshop, Banff	2015
Camp Econometrics, Bolton Landing (P), NY	2015
Calgary Empirical Microeconomics Workshop, Banff	2014
<i>“Proceed with Reckless Abandon: The Unintended Consequences of Expanding Higher Education Enrollment”</i>	
Canadian Economics Association Meeting, Vancouver	2014
<i>“Wild Bootstrap Inference for Wildly Different Cluster Sizes”</i>	
ZEW Applied Econometrics Summer Workshop, Mannheim, Germany	2014
Midwest Econometrics Group, Bloomington, IN	2013
Canadian Econometric Study Group, Kitchener, ON	2013
Doctoral Workshop in Applied Econometrics, Ryerson University, Toronto	2013
Camp Econometrics, Bolton Landing (P), NY	2013

“On the Effectiveness of Graduate Retention Programs”

Canadian Economics Association Meeting, Montreal	2013
Atlantic Canada Economics Association Conference, Halifax	2012

“Reworking Wild Bootstrap Based Inference for Clustered Errors”

Canadian Econometric Study Group Annual Meeting (P), Kingston	2012
Canadian Economics Association Meeting, Calgary	2012
CIREQ Student Conference, Montreal	2012

“How Targeted is Targeted Tax Relief? Evidence from the Unemployment Insurance Youth Hires Program”

Canadian Economics Association Meeting, Ottawa	2011
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Conference Discussions

19th Defence and Security Economics Workshop, Ottawa	2024
18th Defence and Security Economics Workshop, Ottawa	2023
Canadian Economics Association, Winnipeg, MB	2023
16th Defence and Security Economics Workshop, Ottawa	2021
Western Economics Association Meeting, Honolulu (virtual)	2021
Canadian Econometrics Study Group, Montreal	2019
Western Economics Association Meeting, San Francisco	2019
Doctoral Workshop in Applied Econometrics (2), Toronto	2019
Doctoral Workshop in Applied Econometrics, Toronto	2018
Southern Economics Association Conference, Tampa	2017
12th Defence and Security Economics Workshop, Ottawa	2017
The Econometrics of Complex Survey Data, Ottawa	2017
Canadian Economics Association, Antigonish, NS (2)	2017
Canadian Health Economics Study Group, Halifax, NS	2017
Doctoral Workshop in Applied Econometrics, Ottawa (2)	2017
Southern Economics Association Conference, Washington D.C.	2016
11th Defence and Security Economics Workshop, Ottawa	2016
Western Economics Association Meeting, Portland (2)	2016
Canadian Economics Association Meeting, Ottawa	2016
Southern Economics Association Conference, New Orleans	2015
10th Defence and Security Economics Workshop, Ottawa	2015
Canadian Economics Association Meeting, Toronto (2)	2015
Southern Economics Association Conference, Atlanta (2)	2014
Canadian Economics Association Meeting, Vancouver (2)	2014
Doctoral Workshop in Applied Econometrics, Toronto	2014
Canadian Economics Association Meeting, Montreal (2)	2013

Atlantic Canada Economics Association, Halifax	2013
Canadian Economics Association Meeting, Calgary	2012

Referee

Advances in Econometrics vol. 39, *Canadian Journal of Economics* (4), *Canadian Public Policy* (5), *Computational Statistics and Data Analysis* (2), *Defence and Peace Economics* (3), *Economics Bulletin* (2), *Economic Inquiry* (3), *Economics of Education Review*, *Econometric Reviews* (2), *Econometric Theory*, *Frontiers in Psychology*, *Journal of the American Statistical Association*, *Journal of Applied Econometrics* (3), *Journal of Business and Economic Statistics*, *Journal of Econometrics* (3), *Journal of Econometric Methods*, *Journal of Political Economy*, *Journal of Statistical Computation and Simulation*, *Journal of Testing and Evaluation*, *Quantitative Economics*, *Review of Economics and Statistics* (3), *Review of Economic Studies*, *Social Sciences and Humanities Research Council (SSHRC)*, *Southern Economic Journal*

Conference Organization

Canadian Econometrics Study Group (2025) , co-organizer	<i>in progress</i>
Western Economics Association Meeting, Seattle	2024
Program Committee Member - Econometrics.	
Western Economics Association Meeting, San Diego	2023
Program Committee Member - Econometrics.	
Western Economics Association Meeting, Portland	2022
Program Committee Member - Econometrics.	
North American Summer Meeting of the Econometric Society, Montreal.	2021
Program Committee Member - Econometrics.	
Doctoral Workshop in Applied Econometrics, co-organizer	2017-2019
2019 Canadian Stata Conference, chair	2019
Canadian Econometrics Study Group (#35) , co-organizer	2018
Canadian Econometrics Study Group at Canadian Economics Association Meetings	2018
Canadian Public Economics Group Meeting - program committee	2017
Canadian Public Economics Group at Canadian Economics Association Meetings	2016
University of Calgary - Empirical Microeconomics Conference, organizing committee	2014- 2016

Affiliations

Organizer, *Ottawa Applied Microeconomics Lab*
Research Fellow, *Education Policy Research Initiative*
Fellow, *Global Labor Organization (GLO)*

Student Supervision and Examination

Current Doctoral Students

Qixia Wu [UofO] (Committee Member)	2024 -
Morgan Nordstrom [Carleton] (Supervisor)	2024 -
Previously: [Carleton - Geography] (Committee Member 2023 - 2024)	

Tahreen Zahra [Carleton] (Committee Member)	2024 -
Olivia Jiang [UofO] (Committee Member)	2024 -
Aline Zayat [UofO] (Committee Member)	2024 -
Sunny Karim [Carleton] (Supervisor)	2023 -
Debora Loccisano [Carleton] (Committee Member)	2022 -

Previous Doctoral Students

11. Derek Mikola [Carleton] (co-supervisor)	2019 - 2023
First Placement: Postdoc - University of New Brunswick	
10. Florian Richard [Carleton] (Committee Member)	2020 - 2022
First Placement: Assistant Professor - Laval University	
9. Haowei Tang [Carleton] (Committee Member)	2020 - 2022
8. Lamis Kattan [UofO] (Committee Member)	2019 - 2022
First Placement: Assistant Professor - Georgetown University - Qatar	
7. Michelle Laing [Carleton] (Committee Member)	2018 - 2021
First Placement: Research Analyst - Employment and Social Development Canada (ESDC)	
6. Joanne Haddad [UofO] (Committee Member)	2018 - 2020
First Placement: Postdoc - European Centre for Advanced Research in Economics and Statistics	
5. Nikolai Cook [UofO] (Committee Member)	2018 - 2020
First Placement: Assistant Professor - Wilfrid Laurier University	
4. Marie Christelle Mabeu [UofO] (Committee Member)	2018 - 2020
First Placement: Postdoc - Stanford University	
3. Peerapat (Tup) Tandavanitj [UofO] (Committee Member)	2017 - 2019
First Placement: Economist, Government of Thailand	
2. Mingying Zhu [UofO] (Committee Member)	2017 - 2019
First Placement: Assistant Professor, Nanjing University	
1. Abdallah Zalgout [Carleton] (Committee Member)	2016 - 2019
First Placement: Assistant Professor, MacEwan University	

Master's students

3. Morgan Nordstrom [Carleton - Geography] (Committee Member)	2021 - 2022
2. Adam Gadawski (Board Member)	2017
1. Joshua Brault (Board Member)	2016

Undergraduate

2. Oluwaseyi (Shay) Ishola	2018 - 2019
1. Joshua Roxborough (Carleton Undergraduate Research Opportunity)	2017

Research Assistants

Eric Jamieson, MA Student,	2024/05 -
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Ryan Ordonez, MA Student,	2024/05 -
Oladapo Odumosu, PhD Student,	2024/05 -
Calib Sande, MA Student,	2024/01 - 2024/04
Vamuyan Sesay, PhD Student,	2023/09 - 2024/07
Jacob Hazen, MA Student,	2022/05 - 2022/08
First placement: PhD Student at McGill University.	
Jonah Sider-Echenberg, B-Econ Student,	2022/01 - 2023/03
First placement: Research Assistant at Bank of Canada.	
Sunny Karim, PhD Student	2021/09 - ongoing
Tonghui Tian, PhD Student	2021/09 - 2022/08
Tahreen Zahra, MA Student	2020/05 - 2020/08
Derek Mikola, PhD Student	2018/05 - 2022/06
Mehtab Hanzroh, MA Student	2019/03 - 2019/08
First placement: PhD Student at Queen's University.	
Oladapo Odumosu, MA Student,	2017/08 - 2017/12
First placement: Economist at Environment Canada.	
Joshua Roxborough , BA Student	2017/07 - 2018/08
First placement: MA student at Queen's University.	
Scott McNeil, MA Student	2016/02 - 2017/08
First placement: Data Scientist at Shopify.	
Chris Cheng, MA Student	2015/11 - 2017/11
First placement: Data Coordinator at FLIR systems.	

Service

To the Profession

Econometric Society - World Congress 2025 Mentorship Program - Mentor

Carleton University

<i>Collaborative Data Science Specialization - Management Committee</i>	2024-
<i>Research Achievement Award 2020 Selection Committee</i>	2019
<i>COOL RDC Management Committee</i>	2017-2020
Carleton University Representative	

Faculty of Public Affairs

<i>Research Committee</i>	2024 -
<i>Indigenous Hiring Committee</i>	2019

Department of Economics

<i>Chair's Advisory Committee</i>	Winter 2024
<i>M.A. Committee</i>	2023-2024

<i>PhD Committee</i>	2022-2023
<i>Adhoc Hiring Committee</i>	2020
<i>Econometrics Hiring Committee</i>	2019
<i>Empirical Microeconomics Hiring Committee</i>	2018
<i>Labour Economics Comprehensive Exam Committee</i>	2018, 2019
<i>Tenure and Promotion Committee Member</i>	2017-2018, 2022-2024
<i>Undergraduate Committee Member</i>	2016-2019

Non Academic Jobs

General Electric Commercial Equipment Financing , Montreal, Quebec	2005
<i>Co-op Quality Analyst</i>	
JCClark Ltd. , Toronto, Ontario	2004
<i>Co-op Equity Research Analyst</i>	

Other Details

Citizenship: Canadian **Birth Year:** 1983 **References:** Upon Request

Last updated: January 7, 2025