

# Curriculum Vitae

Luc Clair

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## Contact Information

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## Academic Profiles and Website

- 👤 Personal Website: [www.lclair.ca](http://www.lclair.ca)
- 🌿 Canadian Centre for Agri-Food Research in Health and Medicine: [www.sbrc.ca/clair](http://www.sbrc.ca/clair)
- 🎓 Rate My Professor: [www.ratemyprofessors.com](http://www.ratemyprofessors.com)

## Education

- Ph.D. Economics (2017), McMaster University (Supervisor Dr. Jeffrey Racine)
- M.A. Economics (2012), Memorial University of Newfoundland
- B.Sc. Pure Mathematics and Economics (2008), Memorial University of Newfoundland

## **Current Positions**

- Associate Professor (2022-), Department of Economics, University of Winnipeg.
- Principal Investigator (2017-), Agriculture/Health Economics, Canadian Centre for Agri-Food Research in Health and Medicine.

## **Previous Positions**

- Assistant Professor, Part-Time Nil Salary (2019-2022), Department of Community Health Sciences, University of Manitoba.
- Assistant Professor (2017-2022), Department of Economics, University of Winnipeg.
- Postdoctoral Fellow (2016-2017), Memorial University of Newfoundland (Supervisor Dr. Lynn Gambin)

## **Fields of Specialization**

- Health Economics
- Econometrics and Statistics

## **Professional Affiliations**

- Canadian Economics Association
- Canadian Health Economic Association
- Canadian Econometric Study Group
- American Economics Association

## **Courses Taught**

### **University of Winnipeg**

#### *Graduate:*

- GECON 7000, MAE Research Project
- GECON 7003, Cost-Benefit Analysis

#### *Undergraduate:*

- ECON 1102, Intro - Microeconomics

- ECON 1103, Intro - Macroeconomics
- ECON 1201, Quantitative Methods for Business and Economics
- ECON 3201, Introduction to Econometrics
- ECON 3310, Economics of Canadian Health Care
- ECON 3316, Cost-Benefit Analysis and Program Evaluation

## **Memorial University of Newfoundland**

### *Undergraduate:*

- ECON 2020, Introductory Macroeconomics

### *Graduate:*

- ECON 6051, Special Topics in Economics (Advanced Microeconometrics)

## **Student Supervision and Training**

- *Thesis Supervisor*
  - Dhingra, Vaishali (2022, M.A. in Applied Economics, University of Winnipeg)
- *Thesis Committee Member:*
  - Khawar, Hibah (2018, M.Sc Food and Human Nutritional Sciences, University of Manitoba)
- *Research Assistants:*
  - Kashton, Jared (2021-present, M.A. Economics, York University)
  - Ahmed, Jamil (2020-2021, M.A. in Applied Economics, University of Winnipeg)
  - Epp, Tiffani (2020, B.A., University of Manitoba)
  - Goulet-Kilgor, Callum (2020, B.B.A. University of Winnipeg)
  - Eze, Nkiruka (2019-2020, M.A. Economics, University of Lancaster)
  - Awowole, Olusegun (2018, M.A.E.P. Economics, University of Winnipeg)
  - Ezeani, Chukwudi (2018, M.A.E.P. Economics, University of Winnipeg)
- *Teaching Assistants:*

- Charlotte Belbas, Lab instructor for Econ 3201 Introduction to Econometrics, September 7 - December 6, 2021.
- Sadia Zohaib (MAE, University of Winnipeg), TA for Econ 1201 Quantitative Methods for Economics and Business, September 8 - December 4, 2020.
- Joy Dakil (MAEP, University of Winnipeg), TA for Econ 1201 Quantitative Methods for Economics and Business, January 6 - April 4, 2020.
- *Mentorship:*
  - 2020-2021 CRDCN Policy challenge mentor for Adelia Jacobs, MSc Human Nutrition, University of British Columbia

## Teaching Assistantships

- *Graduate:*
  - Econometrics I, McMaster University.
  - Microeconomics Theory for Public Policy, McMaster University.
- *Undergraduate:*
  - Public Sector Economics, McMaster University.
  - Introductory Macroeconomics, McMaster University.
  - Intermediate Microeconomics, McMaster University.
  - Economics Clinic, McMaster University.
  - Introductory Macroeconomics, McMaster University.
  - Introduction to Game Theory, McMaster University.
  - Introductory Macroeconomics, McMaster University.
  - International Monetary Economics, McMaster University.
- *Other:*
  - English Teacher (2008-2009), Lycée Gambetta (Tourcoing, France).

## University Service

- *Committees:*
  - Senate Student Appeals Committee (Member, 2021-)
  - University Study Leave Committee (Member, 2020-)
  - Department Curriculum Committee (Member, 2017-)
  - Department Research and Ethics Committee (Chair, 2021-2023)

- Department Personnel Sub-Committee for Candidate Search (Member, 2017-2018, 2018-2019)
- *Events:*
  - Open House 2021, February 10, 2021
  - First Year Orientation, September 2, 2020
  - Open House 2019, February 20, 2019
- *Media:*
  - Interview for The University of Winnipeg NewsCentre, April 9, 2018. ([Link](#))
- *External Service:*
  - Volunteer at the Cardiac Classic Golf Tournament (August 13th, 2018)

## Grants and Fellowships

1. Social Sciences and Humanities Research Council of Canada - Insight Grant, *co-applicant with Melanie O’Gorman (Principal Investigator), Kerry Black, and Stewart Hill.*  
**Title:** How Important are Water and Sanitation? Investigating the Associations between Water/Sanitation and Well-being in First Nations in Manitoba.  
**Amount:** \$211,624.  
**Date:** April 1, 2022 - March 31, 2025.
2. Canadian Institute of Health Research - Project Grant, *co-investigator with Dylan MacKay (Principal Investigator), Navdeep Tangri, et al..*  
**Title:** Reducing Dietary Acid with Fruit and Vegetables Versus Oral Alkali in People with Chronic Kidney Disease (ReDACKD) Feasibility Trial.  
**Amount:** \$320,534.  
**Date:** April 1, 2022 - March 31, 2025.
3. Canadian Agriculture Partnership - Processing and Value Added Grant, *with Miyoung Suh (Principal Investigator), Champa Wijekoon, Glen Ross, James House, and Joan Niquanicappo.*  
**Title:** Smart Vertical Farm for Health in Northern Communities.  
**Amount:** \$454,445.  
**Date:** April 1, 2020 - March 31, 2023.

4. Canadian Agriculture Partnership - Research and Innovation Grant, *principal investigator with Dr. Carl Taylor and Nkiru Eze*.  
**Title:** Socioeconomic Impact of Legume-Based Health Care Intervention for Treating Peripheral Artery Disease.  
**Amount:** \$35,000.  
**Date:** April 1, 2020 - August 31, 2021
5. University of Winnipeg Major Research Grant, *principal investigator with Dr. Carl Taylor and Nkiru Eze*.  
**Title:** Estimating the Cost of Peripheral Artery Disease in Manitoba.  
**Amount:** \$7,500.  
**Date:** April 1, 2019 - March 31, 2020
6. Canada Agriculture Partnership - Research and Innovation, *co-investigator with Dr. Delfin Rodriguez-Leyva (Principal Investigator), and Dr. Grant Pierce*. **Title:** The effect of flax milk on arterial hypertension: Evaluation of blood pressure response by 24 hour ambulatory blood pressure monitoring.  
**Amount:** \$103,825.  
**Date:** April 1, 2019 - March 31, 2021
7. Canada Agriculture Partnership - Research and Innovation, *co-investigator with Dr. Davinder Jassal (Principal Investigator), Dr. Grant Pierce, and Dr. Pawan Singal*. **Title:** Flaxseed prevents broken hearts in breast cancer patients (CANFLAX study).  
**Amount:** \$229,113.  
**Date:** April 1, 2019 - March 31, 2022
8. Canada Agriculture Partnership - Research and Innovation, *co-investigator with Dr. Harold Aukema (Principal Investigator), Dr. Grant Pierce, Dr. Carla Taylor, Dr. Peter Zahradka, and Dr. Samantha Pauls*.  
**Title:** Cost-Effectiveness Analysis of the Anti-Inflammatory Effects of Flax Oil.  
**Amount:** \$103,258.  
**Date:** April 1, 2019 - March 31, 2021.
9. Canada Agriculture Partnership - Grain Innovation Hub, *co-investigator with Dr. Ben Albeni (Principal Investigator), Dr. Mandana Modirrousta, Dr. Colleen Millikin, and Dr. Grant Pierce*.  
**Title:** Effects of dietary Flaxseed on Memory and Cognition.  
**Amount:** \$215,373.  
**Date:** April 1, 2019 - March 31, 2021
10. Manitoba Medical Service Foundation Operating Grant, *principal investigator with collaborators Dr. Hope Anderson (CCARM) and Dr. Chris Anderson (University of Manitoba)*.  
**Title:** Estimating the Relationship Between Cardiovascular Health and the Use of Neurodegenerative Pharmaceuticals.

**Amount:** \$30,000.

**Date:** April 1, 2017 - March 31, 2019

11. Newfoundland and Labrador SUPPORT Patient-Oriented Research Grant, *co-investigator with Dr. Sheila Garland (Principal Investigator), Ken Fowler, Karine Calfour, Geoff Eaton, Breanna Lane.*

**Title:** Young Adults with Cancer in their Prime (YACC PRIME): A Patient Oriented Collaborative Study.

**Amount:** \$75,000.

**Date:** June 1 2017 - May 31, 2018.

12. Postdoctoral Fellowship, Collaborative Applied Research in Economics, Memorial University of Newfoundland.

**Title:** A Review of the Newfoundland and Labrador Health Care System: An Economist's Perspective.

**Amount:** \$55,000.

**Date:** September 1, 2016 - August 31, 2017.

13. PhD. Graduate Scholarship, McMaster University.

**Amount:** \$7200 per annum.

**Date:** Academic Years 2012 - 2016.

14. Travel Award, Canadian Society of Epidemiology and Biostatistics Conference.

**Title:** Prevalence Estimates of Five Mental Health Conditions: A Comparison of Approaches

**Amount:** \$500.

**Date:** June 1, 2015.

15. M.A. Graduate Scholarship, Memorial University of Newfoundland.

**Amount:** \$5000.

**Date:** September 1, 2011 - August 31, 2012.

## Awards

- Canadian Journal of Public Health Editors Choice Award for “Examining differences in diet quality between Canadian Indigenous and non-Indigenous adults: results from the 2004 and 2015 Canadian Community Health Survey Nutrition Surveys” with Natalie Riediger, Jeffrey Laplante, and Adriana Mudryj.(2022)
- Certificate of Merit for Exceptional Performance as a Member of the Faculty of Business and Economics in the 2019-2020 Academic Year, University of Winnipeg. (2021)

## Peer Reviewed Publications

1. Abo Aoun, Mohamed; Meek, Benjamin; Clair, Luc; Wikstrom, Sara; Prasad, Benjamin; Modirrousta, Mandana. (2023). "Prognostic factors in major depressive disorder: comparing responders and non-responders to Repetitive Transcranial Magnetic Stimulation (rTMS), a naturalistic retrospective chart review". *Psychiatry and Clinical Neuroscience*.
2. Clair, Luc, Hope Anderson, Christopher Anderson, Okechukwu Ekuma, and Heather Prior. (2022). "Cardiovascular Disease and the Risk of Dementia: A Survival Analysis Using Administrative Data from Canada". *Canadian Journal of Public Health*. DOI: <https://doi.org/10.17269/s41997-021-00589-2>.
3. Riediger, Natalie, Jeffrey Laplante, Adriana Mudryj, and Luc Clair. (2022). "Examining differences in diet quality between Canadian Indigenous and non-Indigenous adults: results from the 2004 and 2015 Canadian Community Health Survey Nutrition Surveys". *The Canadian Journal of Public Health*. DOI: [10.17269/s41997-021-00580-x](https://doi.org/10.17269/s41997-021-00580-x).
4. Riediger, Natalie, Laplante, Jeffrey, Mudryj, Adriana, and Clair, Luc. (2021). "Diet quality among Indigenous and non-Indigenous children and youth in Canada in 2004 and 2015: a repeated cross-sectional design". *Public Health Nutrition*. Jun 10:1-10. DOI: [10.1017/S1368980021002561](https://doi.org/10.1017/S1368980021002561)
5. Mahon KN, SN Garland, G Eaton, K Chalifour, BE Lane, K Fowler, L Gambin, and L Clair. (2021). "The Financial Impact of Cancer on Canadian Young Adults". *Journal of Cancer Survivorship: Research and Practice*.
6. Pauls, Samantha, Youjia Du, Luc Clair, Tanja Winter, Harold M. Aukema, Carla G. Taylor, Peter Zahradka. (2020). "Impact of Age, Menopause, and Obesity on Oxylipins Linked to Vascular Health". *Arteriosclerosis, Thrombosis, and Vascular Biology*, 41(2): 883-897.
7. Gibson, Grant and Luc Clair. (2019). "Oh Brother How Art Thou? Differential Reporting of Unmet Need - Evidence from Ontario". *Social Science and Medicine*. 243. 112632.
8. Clair, L. (2019), "Nonparametric Kernel Regression Using Complex Survey Data", *The Econometrics of Complex Survey Data*. *Advances in Econometrics*, Vol. 39, Emerald Publishing Limited, Bingley, pp. 173-208.
9. Moghadasian, Mohammed H., Luc Clair, Francesca Bonomini, Gaia Favero, and Rita Rezzani. (2018). "Obesity and Related Disorders: An International Perspective". *Current Research in Diabetes & Obesity Journal*. 7(5): 55721.



## Work Submitted for Publication

- Clair, Luc, Jared Kashton, and Grant Pierce. “Estimating the Potential Health Care Cost-Savings from a Flax-Based Treatment for Hypertension”. *Revised and Resubmitted to Nutrients*.
- Clair, Luc, Angela Tan, Carla Taylor, and Peter Zahradka. “Estimating the Additional Health Care Costs Associated with Peripheral Artery Disease in Manitoba.” *Submitted to the Canadian Medical Association Journal*.

## Working Papers

- Clair, Luc. (2022). “Nonparametric Instrumental Variable Estimation Using Complex Survey Data”. *University of Winnipeg Working Paper Series*.
- Clair, Luc. (2017). “Private Supplemental Insurance and Mental Health Care Utilization in Canada: An Investigation using Nonparametric Estimation Methods.” *Collaborative Applied Research in Economics, Department of Economics, Memorial University of Newfoundland*.

## Technical Reports

- Clair, Luc, Angela Tan, Carla Taylor, and Peter Zahradka. “Estimating the Additional Health Care Costs Associated with Peripheral Artery Disease in Manitoba.’ Prepared for Manitoba Agriculture on October 31, 2021.
- Clair, Luc. “Estimating the Economic Impact of Agri-Food-Based Health Care Interventions”. Prepared for Manitoba Agriculture on March 31, 2021.

## Works in Progress

- Least-Squares Cross-Validation for Selecting the Bandwidths for Design-Based Kernel Density Estimator
- Probability-Weighted Nonparametric Conditional PDF Estimation
- Nonparametric Instrumental Variable Estimation Using Complex Survey Data
- Socioeconomic Impact of Pulse-Based Treatment for Peripheral Artery Disease
- Nonparametric Multiple Imputation
- Writing an R package for nonparametric kernel estimation methods for survey data
- Genome 360 Phase II: Manitoba’s Provincial Applied Genomics Enterprise Platform

- The effect of flax milk on arterial hypertension: Evaluation of blood pressure response by 24 hour ambulatory blood pressure monitoring with Dr. Delfin Rodrigez-Leyva, and Dr. Grant Pierce
- Flaxseed prevents broken hearts in breast cancer patients (CANFLAX study) with Dr. Davinder Jassal, Dr. Grant Pierce, and Dr. Pawan Singal
- Cost-Effectiveness Analysis of the Anti-Inflammatory Effects of Flax Oil with Dr. Grant Pierce, Dr. Carla Taylor, Dr. Peter Zahradka, and Dr. Samantha Pauls
- Effects of dietary Flaxseed on Memory and Cognition with Dr. Ben Albeni, Dr. Mandana Modirrousta, Dr. Colleen Millikin, and Dr. Grant Pierce

## **Referee Activities**

### **Academic Journals**

- The Canadian Journal of Public Health
- The Journal of the Prevention of Alzheimer's Disease
- Journal of Statistical Computing and Simulation
- Alzheimer's and Dementia
- Reviewed chapters in "Macroeconomics: Canada in the Global Economy, 11th Edition" for Pearson Publishing.
- Quality of Life Research
- Advances in Econometrics

### **Textbooks**

- Reviewed chapters in "Macroeconomics: Canada in the Global Economy, 11th Edition" for Pearson Publishing.

### **Grant Selection Committees**

- Genome Canada

## Conference Presentations and Invited Lectures

- 3rd Annual Manitoba Sustainable Protein Research Symposium, June 21, 2023, “Health Economics of Sustainable Protein”.
- CIHR Smart Cities Lecture Series, March 30, 2022. “Introduction to Health Economics”.
- Millennium Library Skywalk Lecture Series, Winnipeg, Manitoba February 16, 2022, “Estimating the Relationship Between Cardiovascular Disease and Dementia”.
- Dementia Journal Club, University of Manitoba, February 25, 2021. “Estimating the Relationship Between CVD and dementia”.
- Department of Community Health Sciences Bold Ideas Colloquium Series, University of Manitoba, February 7, 2020, “Nonparametric Econometric Methods and their Applications to Health Data”.
- Millennium Library Skywalk Lecture Series, Winnipeg, Manitoba February 5, 2020, “Estimating the Relationship Between Cardiovascular Disease and Dementia”.
- Canadian Research Data Centre Network 2019 National Conference, Halifax, Nova Scotia, October 24th, 2019, “Estimating the Relationship Between Cardiovascular Disease and Dementia”.
- St. Boniface Hospital Foundation, May 30, 2019, “Agriculture and Health Economics at the St. Boniface Hospital Research Centre”.
- Manitoba Agriculture, April 26, 2019, “Agriculture and Health Economics at the St. Boniface Hospital Research Centre”.
- Department of Economics Seminar, University of Manitoba, September 28, 2018, “Nonparametric Instrumental Variable Estimation Using Complex Survey Data”.
- 52nd Annual Conference of the Canadian Economics Association, McGill University, June 3, 2018, “Private Supplemental Insurance and Mental Health Care Utilization in Canada: An Investigation using Nonparametric Estimation Methods”.
- Food for Thought Seminar, Canadian Centre for Agri-Food Research in Health and Medicine, December 12, 2017, “Health Economics: Theory, Methods, and Applications”.
- Department of Seminar, College of Pharmacy, University of Manitoba, November 29, 2017, “Private Supplemental Insurance and Mental Health Care Utilization in Canada: An Investigation using Nonparametric Estimation Methods”.
- Bank of Canada Conference on the \* Econometrics of Survey Data: Theory and Applications}, Bank of Canada, October 18, 2017. “Nonparametric Kernel Regression Using Complex Survey Data”.

- Department of Economics Seminar, Memorial University of Newfoundland, September 8, 2017, “Private Supplemental Insurance and Mental Health Care Utilization in Canada: An Investigation using Nonparametric Estimation Methods”.
- 51st Annual Conference of the Canadian Economics Association, St. Francis Xavier University, June 2, 2016, “Probability-Weighted Nonparametric Conditional PDF Estimation”.
- 50th Anniversary of the Department of Economics at Memorial University of Newfoundland (Invited), March 1, 2017, “Supplemental Health Insurance and the Use of Mental Health Services in Canada”.
- Department of Economics Seminar, University of Winnipeg, February 3, 2017, “Probability-Weighted Nonparametric Conditional PDF Estimation”.
- 50th Annual Conference of the Canadian Economics Association, University of Ottawa, June 4, 2016. “Nonparametric Kernel Regression using Complex Survey Data”.
- NY Camp Econometrics (Poster), April 8-10, 2016, “Nonparametric Kernel Regression for Mixed Data Types Using Complex Survey Data”.
- Department of Economics Seminar, McMaster University, January 5, 2016, “Nonparametric Kernel Regression for Mixed Data Types Using Complex Survey Data”.
- Atlantic Summer Institute on Healthy and Safe Communities Symposium on Child and Youth Mental Health (Invited), August 19, 2015, “Sharing Information and Using Large Data Sets Across Sectors for Collective Impact”.
- Canadian Society of Epidemiology and Biostatistics Conference, June 1, 2015, “Prevalence Estimates of Five Mental Health Conditions: A Comparison of Approaches”.

## Languages

- English (Native)
- French: read, write, speak