

JACOB HAZEN

OFFICE CONTACT INFORMATION

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Montreal, QC
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REFERENCES

Professor Fabian Lange
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Professor Fernando Saltiel
fernando.saltiel@mcgill.ca

PLACEMENT ADMINISTRATOR

Department of Economics
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RESEARCH PAPERS

Working Papers

Parental Bond, Wage Risk, Skill Formation (Job Market Paper).

Human Capital Development of Socio-Emotional Skills in Children.

Best Third-Year Research Paper Award; SSHRC Doctoral Award; CRDCN Emerging Scholar Award.

Persistent Inequality in Maternal Mental Health (with Fernando Saltiel).

Non-refereed Publications

Did the Pandemic and Current Labour Shortages Change the Quality of Jobs? (with Mahmut Ablay, Luc Bissonnette, Fabian Lange)

Funded by the Government of Canada's Future Skills program.

FIELDS

Primary: Applied Microeconomics, Labour Economics.

Secondary: Child Development, Education, Applied Econometrics, Machine Learning (Natural Language Processing).

EDUCATION

McGill University

Ph.D. in Economics, 2022–expected 2027.

Dissertation: *Essays in Parental Investment, Wage Risk, and Child Skill Formation.*

Advisors: Fernando Saltiel (McGill), Fabian Lange (McGill)

Carleton University

M.A. in Economics and Data Science, 2022.

Thesis: *Unsupervised Textual Mining Techniques for Forecasting Crude Oil*

Advisor: Ba Chu

Committee: Mohamedou Ould Haye, Thomas Russell, Ana Dammert

University of Calgary

B.A. in Economics and Computer Science, 2020.

RESEARCH POSITIONS

Research Assistant, McGill University

2023

Supervisor: Fabian Lange

Natural language processing analysis of non-wage job benefits in job postings; contribution to Future Skills work on job quality during and after the pandemic.

Research Assistant, Queen's University and Carleton University

2022

Supervisors: James MacKinnon, Matthew Webb, Morten Nielsen

Work on the `Summclust` R package and wild bootstrap methods for clustered and IV regressions.

Research Assistant, APEX Group (Computer Science), Carleton University

2022

Designed Docker-based applications and big-data workflows for hydrogen transition simulations.

Research Assistant, PatiML, University of Calgary

2020

Supervisor: Alexander Whalley

Machine learning and high-performance computing workflows for large-scale economic data.

TEACHING EXPERIENCE

McGill University (Teaching Assistant):

Game Theory; Introductory Microeconomics; Introductory Macroeconomics;

Graduate Macroeconomics; Graduate Economic Data Science;

Introductory Econometrics; Applied Data Analysis.

FELLOWSHIPS, HONORS, AND AWARDS

SSHRC Doctoral Fellowship (80,000 CAD), 2025–2028.
CRDCN Emerging Scholar Award, 2025.
Best Third-Year Research Paper Award, McGill University, 2025.
Graduate Excellence Award, McGill Economics (five-year funding), 2022.
Ontario Graduate Scholarship (declined), 2022.
Randall Geehan Memorial Scholarship in Quantitative Economics, Carleton University, 2022.
Departmental Merit Scholarship (two-year funding), Carleton University, 2021.
Dean’s List, University of Calgary, 2020.
Jason Lang Scholarship, University of Calgary, 2020.
Alexander Rutherford Scholarship, Alberta, 2016.

PROFESSIONAL EXPERIENCE

Infrastructure Canada, Ottawa.

Junior Data Science Analyst, 2021–2022.

Natural language processing of parliamentary text and dynamic web scraping for the Investing in Canada Infrastructure Plan; briefed the Deputy Minister on results.

Data Analyst, Data Science (Intern), 2021.

Power BI dashboards and data cleaning tools for infrastructure program monitoring.

Critical Mass, Calgary.

Data Scientist (Intern), 2020.

Python and machine learning models using survey- and admin-style data.

OTHER PROFESSIONAL ACTIVITIES

President, McGill Economics Graduate Society, 2024–present.

Ph.D. Representative, CIREQ, 2024–present.

Co-President, Carleton Economics Graduate Society, 2021–2022.

Technological Director, Canadian Organization for Undergraduate Health Research 2019–2020.

Technological Director, GiftingTech 2019–2020.

PRESENTATIONS

CRDCN Emerging Scholars Webinar, 2025.

Canadian Economics Association, 59th Annual Conference, 2025.

AI in Economics Lecture, Expanding Economics and McGill AI Society, 2024.

TECHNICAL SKILLS

Programming: Python, R, Bash and Unix, Git, SQL, Stata, MATLAB.

Tools: Docker, PostGIS, Power BI.

Languages: English (native), French (working proficiency).