

# Weseem H. Ahmed

Toronto

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weseemahmed.github.io

## Professional Profile

- Graduate degree in economics with strong emphasis on quantitative analysis.
- Experienced in developing reports to a wider audience based on analytical solutions.
- Sound understanding of data, SQL commands, and integrating data sets from various sources into a pipeline for further analysis.
- Superior verbal and written communication skills in blogs, reports, and presentations.
- Completed Data Science Certificate from the University of Toronto.

## Experience

### Research Associate

09/2019 – present

Canadian Institute for Climate Choices, Toronto, Ontario

- Build large economic, demographic, and climate data sets to be input into statistical models to predict economic and social impacts of climate change across Canada.
- Construct data pipelines to extract data from various APIs and web scraping to further analyze, model, and visualize analytical findings for stakeholders.
- Develop in-house solutions such as cloud computing, automation, and data visualizations to streamline processes and cut costs in research and analytical report writing.

### Ad-hoc Consultant

05/2019 – 06/2020

- Led the quantitative analysis on the future of work in Canada by publishing the first study of its kind on the risk of automation in rural and urban areas, finding that rural areas are more at risk of automation and providing a set of recommendations to governments.
- Scoped, analyzed, and advised on Ontario's rural economy, publishing in the Munk School's *Ontario 360* and sharing my findings among public servants as well as on TVO's *The Agenda*.

### Policy Analyst and Clusters Specialist

03/2018 – 05/2019

Institute for Competitiveness & Prosperity, Toronto, Ontario

- Created the data architecture to gather, store, and generate attributes for over 50 million business employment counts across Canada, analyzing economic concentrations and culminating in an interactive web application for 66 sectors in 383 regions.
- Managed projects including economic updates and fiscal strategies and developed data visualizations which increased impressions among government and public stakeholders.
- Collaborated with all three levels of government to organize the 21<sup>st</sup> TCI Network Global Conference, organizing over 70 abstracts from international professors, presidents, and CEOs from 37 countries.

## Education

### Master of Arts in Economics

2014 – 2016

Toulouse School of Economics, Toulouse, France

Thesis: *Estimating Effects of Democratic Institutions on Climate Change with a Logistic Regression*

### Bachelor of Arts in Economics

2010 – 2014

Western University, London, Ontario

## Publications

- Ahmed, W. & Speer, S. (2020). A Place-Based Lens to the Future of Work in Canada. Public Policy Forum.
- Ahmed, W. (2019). Measuring Ontario's Urban-Rural Divide. *Ontario 360*. Munk School of Global Affairs and Public Policy.
- Ahmed, W. & So, D. (2019). The Canadian Cluster Handbook. Institute for Competitiveness & Prosperity.
- Ahmed, W. & Mack, C. (2018). Unfinished Business: Ontario since the Great Recession. Institute for Competitiveness & Prosperity.

## Personal Projects

**Canadian Cluster Map:** An interactive Canadian cluster mapping project measuring location quotients and employment counts for 66 industry clusters covering 383 jurisdictions across Canada. This mapping project improves upon the federal government's by using more granular NAICS codes (6 vs 4 digit) and geographies (census divisions vs economic regions).

**Classifying credit defaulters:** A machine learning model designed to classify and estimate which borrowers are most likely to default on loans using Python.

**Boundary file data extraction:** Methodology on extracting socioeconomic data from census boundary files from Statistics Canada using R.

**Dot density maps:** Methodology on creating sf maps using any geocoded data with R programming.