

# Pietro Violo

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## Education

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### Université de Montréal

PH.D. IN DEMOGRAPHY

Quebec, Canada

2023 - 2027(Expected end date)

### Université de Montréal

M. SC. IN DEMOGRAPHY

Accelerated transition to doctorate

Quebec, Canada

2022 - 2023

### Université de Montréal

B.SC. IN DEMOGRAPHY AND MATHEMATICS

GPA: 3.9/4.3

Quebec, Canada

2019 - 2021

## Certificates and Workshops

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### UC Berkeley

ANNUAL WORKSHOP ON FORMAL DEMOGRAPHY

California, United States

Summer 2023

### Max Planck Institute for Demographic Research

CERTIFICATE IN COMPUTATIONAL DEMOGRAPHY

Rostock, Germany

Autumn 2022

## Work experience

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### Indigenous Services Canada, Demand Forecasting Unit

ANALYST (STUDENT)

Winter 2023 - Present

- Estimate and project Indigenous populations by gender, age, and community using various demographic and statistical methods
- Conduct a literature review on the theoretical elements of the project
- Create project visualizations to make information more accessible

### Statistics Canada, Demography Centre

ANALYST

Summer 2022 - Autumn 2022

- Estimate the size of the population over the age of 90 by gender and Canadian province
- Review the literature on estimation methods
- Create R programs of several population estimation algorithms: Survivor Ratio method, Extinct Cohort method and Das Gupta method
- Make presentations to share knowledge with other departments

### Université de Montréal, Department of Demography

TEACHING ASSISTANT - PROGRAMMING FOR DEMOGRAPHY

Winter 2022, 2023

- Create videos to facilitate the learning of R, SAS and STATA programming languages
- Conduct hands-on sessions
- Correct assignments and answer questions

### Consolato Generale d'Italia

INTERN

Autumn 2021

- Browse the archives and the various databases of the Italian Consulate covering over 60,000 Italian citizens in the consular district
- Building a web scraping program to identify deceased but undeclared Italian citizens
- Assess the demographic profile of the Italian citizens in the Canadian consular district and produce statistics on the subject

### Université de Montréal, Department of Demography

RESEARCH ASSISTANT - THE DETERMINANTS OF MODAL AGE AT DEATH

Summer 2021

- Research and download contextual variables from various databases
- Data cleaning and processing
- Generate statistical and graphical models in R
- Contributing to a scientific article
- Prepare presentations for various symposiums and conferences

## Université de Montréal, Department of Demography

RESEARCH ASSISTANT - DIFFERENTIAL MORTALITY OF COVID-19 IN THE UNITED STATES

Winter 2021

- Explore and transform data provided by the Centers for Disease Control and Prevention (CDC WONDER)
- Calculate and standardize COVID-19 mortality rates in each U.S. state
- Produce statistics and graphs in the R programming language

## Université de Montréal & University Institute of Geriatrics of Montreal

RESEARCH ON THE AGING OF THE QUEBEC POPULATION

Summer 2020

- Update demographic data and rewrite article for publication
- Explore databases (including Statistics Canada, ISQ, and Canadian Institute for Health Information)
- Research and writing of new topics related to aging

## The Montreal Children's Hospital

ADMINISTRATIVE AGENT

2016 – 2023

- Manage payroll and schedules
- Ensure that departments have sufficient staff to function properly
- Ensure good communication between the units and the hospital's nurse manager

## Acquired Tools

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**R:** Tidyverse, Data Table, Machine learning, Web scraping, Building packages

**Python:** Choropleth, pandas, BeautifulSoup

**Other tools:** Regular Expression, LaTeX, Zotero, Github, Microsoft Office(Word, Excel), Photoshop

## Publications and Talks

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### **Pietro VIOLO, Émile GENDREAU CÔTÉ, Julie CHOQUETTE**

LEVERAGING CROWDSOURCED INFORMATION AND WEBSCRAPING TO TACKLE THE MONTREAL HOUSING CRISIS

*Submission for presentation -  
November 2023*

*Quetelet 2023, Louvain-la-Neuve,  
Belgium*

### **Pietro VIOLO, Émile GENDREAU CÔTÉ, Julie CHOQUETTE**

LEVERAGING CROWDSOURCED INFORMATION AND WEBSCRAPING TO TACKLE THE MONTREAL HOUSING CRISIS

*Submission for presentation -  
September 2023*

*17th North American Meeting of the  
Urban Economics Association, Toronto*

### **Pietro VIOLO, Nadine OUELLETTE**

THE USAGE OF OBITUARIES AS AN ALTERNATIVE DATA SOURCE FOR MORTALITY

*Poster - 2023*

*Population Association of America, New  
Orleans, LA, United States*

### **Pietro VIOLO, Nadine OUELLETTE**

THE USAGE OF OBITUARIES AS AN ALTERNATIVE DATA SOURCE FOR MORTALITY

*Presentation - 2023*

*Canadian Population Society, Toronto*

### **Pietro VIOLO, Nadine OUELLETTE**

LES NÉCROLOGIES COMME SOURCE DE DONNÉES POUR ÉTUDIER LA MORTALITÉ AU QUÉBEC

*Presentation - 2023*

*Association des démographes du  
Québec*

### **Pietro VIOLO, Simona BIGNAMI, Timothy RIFFE, Enrique ACOSTA et Daniela GHIO**

SEX DIFFERENCES IN COVID-19 MORTALITY IN THE UNITED STATES: A STATE-LEVEL ANALYSIS

*Presentation - 2022*

*European Population Conference,  
Groningen, Netherlands*

### **Nadine OUELLETTE, Marielle CÔTÉ-GENDREAU and Pietro VIOLO**

MODELING CONTEXTUAL DETERMINANTS OF RISING ADULT MODAL AGE AT DEATH IN HIGH-INCOME COUNTRIES

*Presentation - 2022*

*Association des démographes du  
Québec*

### **Marie-Jeanne KERGOAT, Jacques LÉGARÉ and Pietro VIOLO. 2022.**

« ASPECTS DÉMOGRAPHIQUES ET ÉPIDÉMIOLOGIQUES DU VIEILLISSEMENT AU QUÉBEC », DANS PRÉCIS PRATIQUE DE GÉRIATRIE, 4E ÉDITION (DIR. MARCEL ARCAND ET RÉJEAN HÉBERT). QUÉBEC : EDISEM, PP. 1-16.

*Book chapter*

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*Population Association of America,  
Atlanta GA, United States*

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MODELING CONTEXTUAL DETERMINANTS OF RISING ADULT MODAL AGE AT DEATH IN HIGH-INCOME COUNTRIES

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*Population Association of America,  
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## Awards and Distinctions

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2023

**Population Association of America 2023 - Blue Ribbon**, Awarded a blue ribbon for best research poster in the Mortality and Morbidity poster session

2022-2023

**Master's level scholarship (Social Sciences and humanities research council of Canada),**

2023-2024

**Master's level scholarship (Research funds of Quebec)**, The evaluation committee ranked the project as the best for the 2022 Demography and Sociology cohort.

2022

**Jacques Légaré et Gisèle Graton Scholarship for Demographic Research,**

2022

**Poster Contest - 2nd place**, at the annual student symposium for the COVID-19 gender differential mortality study in the United States (Association des démographes du Québec).