# Michael Elten

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# PROFESSIONAL SUMMARY

Bilingual Master's student in epidemiology, specialized in quantitative methods. Research interests include environmental epidemiology and epidemiological methods.

### **EDUCATION**

Masters of Science

Sept. 2017 - May 2019

Epidemiology, University of Ottawa

Bachelors of Science + post-bac courses

Sept. 2011 - May 2015

Biomedical Science, magna cum laude, University of Ottawa

# RELEVANT WORK EXPERIENCE

### Junior Epidemiologist

Nov. 2017 - Present

Health Canada - Air Health Sciences division

- Principal investigator of a project using ICES Ontario health administrative data to evaluate the association between maternal/childhood exposure to air pollution and inflammatory bowel disease
- Cleaned, manipulated, linked, and analyzed large datasets for a cohort of over 3 million
- Employed mixed effects proportional hazards, and distributed lag non-linear models using both SAS and R
- Presented research proposal and results to the scientific community

## Teaching Assistant - Introductory Epidemiology (EPI5240)

Sept. 2018 - Dec. 2018

University of Ottawa - Faculty of Medicine

- Led weekly hour-long discussion sessions with groups of 8-10 students about course content through a selected journal article and assigned questions
- Managed Brightspace virtual campus to post lecture notes and to manage assignment submissions
- Graded, compiled scores, and provided critical feedback to students for 3 assignments that included a variety of question formats including short answer, long-answer and calculations

## Graduate Summer Student

Jun. 2017 - Sept. 2017

Hastings Prince Edward Public Health - Foundational Standards

- Created a social determinants of health report, analyzing national administrative and survey data (Census, CCHS, etc.) to examine health equity in Hastings and Prince Edward counties
- Reported local immunization coverage data to Ministry of Health and Long-Term Care
- Wrote an accessible immunization report to inform the public on local vaccination uptake
- Performed scoping and literature reviews on various topics to support the environmental health and sexual health teams in planning upcoming health programs

#### Research Assistant

May. 2015 - Mar. 2016

Bruyère Research Institute - Deprescribing in the Elderly / Palliative Rehabilitation programs

- Coordinated the completion of a manual for guideline creation by researchers internationally
- Formatted and referenced 3 manuscripts for submission to peer-reviewed journals
- Transcribed and validated data for over 100 patients, each with 20 separate forms of data
- Managed and reported data in Microsoft Access for over 350 patients enrolled in the program, and supported investigators by exporting a subset of variables into secondary datasets

### **VOLUNTEER EXPERIENCE**

### President / VP conferences and workshops

Sept. 2017 - Present

Canadian Society for Epidemiology and Biostatistics – uOttawa chapter

- Elected president for the 2018-2019 academic school year providing leadership to an executive committee of 10 students
- Organized a program evaluation and social events for the 2019 CSEB national conference
- Planned several workshops aimed at helping undergraduate students interested in applying for master's programs in epidemiology including "Applications 101" and "Letter of Intent" workshops
- Led the planning for the CSEB Research day, an undergraduate research conference involving 144 students presenting 57 projects, with 27 professor and graduate student judges

Team Leader Jan. 2017 – June 2017

TD Environmental Leaders Project – Sustainable garden (Ottawa Mission)

- Managed and coordinated a team of 8 post-secondary students in preparation for the implementation of a community run garden to benefit the Ottawa Mission
- Delegated individual tasks based on each team member's strengths and interests
- Outreached to local horticulture societies to develop partnership opportunities
- Led literature reviews on a broad variety of relevant topics such as optimal soil and plant selection

### **AWARDS AND DISTINCTIONS**

• 2 <sup>nd</sup> best MSc. Presentation – SEPH uOttawa Research day (\$500)	Mar. 2019
Ontario Graduate Scholarship (OGS) valued at \$15 000	Sept. 2018
<ul> <li>University of Ottawa Graduate Excellence scholarship valued at \$7 800</li> </ul>	Sept. 2018
<ul> <li>CANUE Student Travel award valued at up to \$1 250</li> </ul>	May 2018
• University of Ottawa Graduate Admission Scholarship: valued at \$6 000 per year	Sept. 2017
<ul> <li>Deans List: awarded for achieving an 8.5 or higher annual GPA</li> </ul>	Sept. 2014
University of Ottawa Admission Scholarship: valued at \$2,000 per year	Sept. 2011

## ADDITIONAL SKILLS / CERTIFICATIONS

- Statistical Mastery: Knowledge and use of descriptive statistics, hypothesis testing, regression
- Version control: Git, Github
- Computational Skills: Proficiency with R, RMarkdown, and SAS statistical programs, basic QGIS
- Reference management software: Proficiency with Mendeley and RefWorks
- Microsoft Office Suite: Mastery in Excel, Word, PowerPoint, Access, Outlook, OneNote
- Bilingual: Fluent in both English and French

### PRESENTATIONS (9)

- Greenness as a protective factor for childhood-onset inflammatory bowel disease? March 2019. University of Ottawa School of Epidemiology and Public Health Résearch day 2019. Ottawa Canada. (Oral)
- Guidelines for creating effective slideshow presentations. Knowledge Translation Event -Canadian Society for Epidemiology and Biostatistics – uOttawa chapter. March 2019.

  • Ambient Air Pollution and the Risk of Childhood-onset Inflammatory Bowel Disease. Feb 2019.
- Canue Expert Webinar Series. (Oral)
- Evaluating the exposure to ambient air pollution and the risk of pediatric inflammatory bowel disease. Jan 2019. Health Canada Science Forum 2019. (Oral and Poster)
- Perinatal Exposure to Ambient Air Pollution and Greenness, and the Incidence of Paediatric Diabetes: a Population-Based Cohort study. August 2018. International Society of Exposure Sciences (ISES) and International Society for Environmental Epidemiology (ISEE) 2018 joint conference. Ottawa, Canada. (Poster)
- Maternal and Early Life Exposure to Ambient Air Pollution, and the risk of Pediatric Inflammatory Bowel Disease. March 2018. University of Ottawa School of Epidemiology and Public Health Research day 2018. Ottawa Canada. (Oral)

  • Ambient Air Pollution and Childhood Inflammatory Bowel Diseases. March 2018. Health Canada,
- Water and Air Quality Bureau Open House. Ottawa Canada. (Oral)

  Effect of a Proton Pump Inhibitor (PPI) Deprescribing Guideline on PPI Drug Costs in Long-term Care. Jan 2016. Ontario Pharmacy Research Collaboration Summit. Toronto Canada. (Poster)
- The Effect of Ginger on EGG patterns in patients with Anorexia Cachexia Syndrome. Biomedical Science Poster Day. April 2015 University of Ottawa. Ottawa Canada. (Poster)

# **PUBLICATIONS (2)**

Refereed (1):

• Eric Lavigne, Isac Lima, Marianne Hatzopoulou, Keith Van Ryswyk, Mary Lou Decou, Wei Luo, A. van Donkelaar, Randall Martin, Hong Chen, Dave Stieb, Eric crighton, Antonio Gasparrini, Michael Elten, Abdool Yasseen III, Rick Burnett, Mark C Walker, Scott Weichenthal. Spatial variations in ambient ultrafine particle concentrations and risk of congenital heart defects. April 2019. Environment International. (In review)

Non-Refereed (2):

- The Social Determinants of Health A Snapshot of Hastings and Prince Edward Counties. August 2017. http://bit.ly/2G84EtN
- 2016-2017 Hastings and Prince Edward Counties School Immunization Coverage Report. September 2017. http://bit.lv/2AmGidu

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