

Michael Elten

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PROFESSIONAL SUMMARY

Environmental epidemiologist eager to learn and master new methods! Research interests include exposure assessment and their application in determining burden of disease of environmental contaminants on the national and international scale.

EDUCATION

Masters of Science

Epidemiology, University of Ottawa

Sept. 2017 – Nov. 2019

Bachelors of Science + post-bac courses

Biomedical Science, magna cum laude, University of Ottawa

Sept. 2011 – May 2015

RELEVANT WORK EXPERIENCE

Environment Officer

Health Canada – Performance Measurement Division

Nov. 2019 – Present

- Evaluated the performance of risk management actions taken by the Government of Canada through a comprehensive assessment of changes in exposure profiles
- Led a health analysis using WHO methodology to assign national burden of disease estimates for chronic dioxin/furan exposures, comparing several different exposure profiles
- Conducted analyses to support performance measurements of other substances such as 2-butanone oxime, DEHP, PCBs

Junior Epidemiologist

Health Canada – Air Health Sciences Division

Nov. 2017 – Nov. 2019

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

Teaching Assistant – Introductory Epidemiology (EPI5240)

University of Ottawa – Faculty of Medicine

Sept. 2018 – Dec. 2018

- 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, exploring effectiveness of the Immunization of School Pupils Act (ISPA)
- 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

VOLUNTEER EXPERIENCE

President / VP conferences and workshops

Sept. 2017 – August 2019

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

AWARDS AND DISTINCTIONS

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| ▪ 2 nd best MSc. Presentation – SEPH uOttawa Research day (\$500) | Mar. 2019 |
| ▪ Ontario Graduate Scholarship (OGS) valued at \$15000 | Sept. 2018 |
| ▪ University of Ottawa Graduate Excellence scholarship valued at \$7800 | Sept. 2018 |
| ▪ CANUE Student Travel award valued at up to \$1250 | May 2018 |
| ▪ University of Ottawa Graduate Admission Scholarship: valued at \$6000 per year | Sept. 2017 |
| ▪ Deans List: awarded for achieving an 8.5 or higher annual GPA | Sept. 2014 |
| ▪ University of Ottawa Admission Scholarship: valued at \$2000 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)

- Air pollution and greenness, and the risk of paediatric-onset inflammatory bowel disease. August 2019. International Society of Environmental Epidemiology (ISEE) 2019 Conference. Utrecht, the Netherlands. (Poster)
- Greenness as a protective factor for childhood-onset inflammatory bowel disease? March 2019. University of Ottawa School of Epidemiology and Public Health Research day 2019. Ottawa Canada. (Oral)
- Guidelines for creating effective slideshow presentations. March 2019. Knowledge Translation Event - Canadian Society for Epidemiology and Biostatistics – uOttawa chapter. Ottawa Canada. (Oral)
- Ambient air pollution and the risk of childhood-onset inflammatory bowel disease. Feb 2019. CANUE Expert Webinar Series. Online. (Oral)
- Evaluating the exposure to ambient air pollution and the risk of pediatric inflammatory bowel disease. Jan 2019. Health Canada Science Forum 2019. Ottawa Canada. (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. April 2015. Biomedical Science Poster Day. University of Ottawa. Ottawa Canada. (Poster)

PUBLICATIONS (4)

Refereed (2) :

- Bhargava R, Chasen M, Elten M, MacDonald N. The effect of ginger (Zingiber officinale Roscoe) in patients with advanced cancer. Supportive Care in Cancer. 2019 Nov 19:1-8.
- Lavigne E, Lima I, Hatzopoulou M, Van Ryswyk K, Decou ML, Luo W, van Donkelaar A, Martin RV, Chen H, Stieb DM, Crighton E, Gasparrini A, Elten M, Yasseen III A, Burnett R, Walker M, Weichenthal S. Spatial variations in ambient ultrafine particle concentrations and risk of congenital heart defects. Environment international. 2019 Sep 1;130:104953.

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.ly/2AmGjdu>