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# Eugene Mohareb, Ph.D.

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## Current Role

[Post-Doctoral Researcher, University of Cambridge](#)

2014 - Present

**Role:** Leading research examining retrofit technology adoption, projections of GHG emissions from urban technology stocks, and urban approaches of climate change mitigation of the food system

## Education

Ph.D., Civil (Environmental) Engineering, University of Toronto

2008-2012

Advisor: [Dr. Chris Kennedy](#)

**Focus:** [Greenhouse Gas \(GHG\) Emissions from Cities](#)

M.Sc., Biological Engineering, University of Guelph

2001-2003

Advisor: [Dr. Gauri Mittal](#)

**Focus:** [Optimisation of Edible Packaging Trays](#)

B.Sc.(Eng), Biological Engineering, University of Guelph

1997-2001

Advisor: [Dr. Gauri Mittal](#)

**Focus:** [Process Engineering in the Food Industry](#)

## Consulting Experience

Urban Sustainability

2012 - Present

**Role:** Assisted clients in quantification of carbon footprints, energy demand scenarios, climate change adaptation, funding strategies, capacity building, and general urban sustainability issues

Clients have included: [CBC](#), [City of Toronto](#), [The Next Practice](#), [Lao PDF MoH](#), [UN-HABITAT](#)

Quality Assurance

2004 - 2012

**Role:** Consulted with 12 micro & small enterprises on the installation and maintenance of food safety and quality systems, as well as the adoption of energy efficiency measures (100% audit success rate)

Clients have included: [Shasha Bread](#), [New Moon Kitchen](#), [Mimac Glaze](#), [Mr. Pita](#), [Silverstein's Bakery](#)

## Teaching Experience

[Infrastructure for Sustainable Cities](#), Course Instructor, U. Toronto

2012

[Urban Engineering Ecology](#), Teaching Assistant, U. Toronto

2008, 2010, 2011

[Efficient Use of Energy](#), Teaching Assistant, U. Toronto

2009

[Environmental Impact & Risk Assessment](#), Teaching Assistant, U. Toronto

2009 - 2011

[Engineering Economics](#), Teaching Assistant, U. Guelph

2001

## Selected Publications

*Peer Reviewed*

[Residential GHGs from Major Canadian Cities](#), *CJCE* (2014), **41(4)**, 285 - 293

[Scenarios of Technology Adoption for Low-Carbon Cities](#), *Energy Policy* (2014), **66**, 685 - 693

[GHG Scenario Modeling for Cities](#), *J. of Industrial Ecology* (2012), **16(6)**, 875 - 888

[Cities Reducing their GHG Emissions](#), *Energy Policy* (2012), **49**, 774 - 777

[Carbon Sinks for Urban Inventories](#), *J. of Industrial Ecology* (2012), **16(3)**, 302 - 316

[Assessment of Quantification Methods for GHGs from Waste](#), *AWMA Journal* (2011), **61(5)**, 480 - 493

[Decoupling of Building Energy Use and Climate](#), *Energy & Buildings* (2011), **43(10)**, 2961 - 2963

*Reports & Book Chapters*

[Energy Efficiency Potential in Alberta](#), Alberta Energy Efficiency Alliance (2014)

[Improving Energy Efficiency in Alberta's Buildings](#), Pembina Institute (2014)

[Getting to Carbon Neutral](#); in *Energy Efficient Cities*, World Bank (2010)

[G2CN - A Guide for Canadian Municipalities](#), Toronto Regional Conservation Authority (2010)

**Conferences** Research has been presented at 15 national & international conferences

**Awards** Research has been funded with over \$200,000 (CAD) in grants, scholarships, and fellowships, from public (NSERC) & private (AWMA) organisations

## Areas of Interest

Urban Sustainability

Low-Carbon Infrastructure

Technology Adoption

Sustainable Food Systems

## General Skills

GHG Accounting

Life Cycle Assessment

Statistical Analysis

Programming: Python, R

## Web Presence

[Research](#)

[LinkedIn](#)

[Google Scholar](#)

[Twitter](#)

[University of Cambridge](#)

## Professional Affiliations

*Memberships*

- Air & Waste Management Association
- Canadian Green Building Council
- Canadian Society of Civil Engineers
- International Society for Industrial Ecology

*Peer Reviewer*

- Carbon Management
- Energy & Buildings
- Energy Policy
- Environmental Science & Technology
- J. of Cleaner Production
- J. of Industrial Ecology
- Waste Management

## Personal Interests

Backcountry Camping

Hiking / Trekking

Doubles Tennis

Floor Hockey

Canoeing

Cycling

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## Contact Information

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