

Charles M. Burke

National University of Singapore
University Scholars Programme
18 College Avenue East
Singapore 138593
uspcmb@nus.edu.sg
+65 9237 1972

EDUCATION

PhD Transportation Geography (Comprehensive Exam Distinction)

McMaster University, Hamilton, On, Canada 2012 –2016

Doctoral Thesis: *Addressing Driver Concerns: The Network Robustness Index approach to planning city cycling infrastructure*

Mini-MBA Certificate

McMaster University, Hamilton, On, Canada 2013

Masters of Political Science and Public Policy

University of Windsor, Windsor, ON 2008 – 2010

Master's Thesis: *A Policy Review of Canada-US Cross Border Trade and Travel*

Bachelors of Arts (Distinction) Environmental Science

Bishop's University, Sherbrooke, QC

2003 – 2007

Honors Thesis: *The Hydrogen Economy and Potential Impacts on Transportation*

PROFESSIONAL APPOINTMENTS (ACADEMIC)

Director, Quantitative Reasoning Centre,

University Scholars Programme, Singapore

2020-Present

Lecturer, School of Continuing and Lifelong Education

National University of Singapore, Singapore

2019-Present

Lecturer, University Scholars Programme

National University of Singapore, Singapore

2016-Present

Instructor

McMaster University School of Geography and Earth Science

2012 – 2016

Researcher, Analyst

University of Windsor, Cross Border Institute

2009 – 2012

PROFESSIONAL APPOINTMENTS (NON-ACADEMIC)

Co-Founder, National Board Member

Geographers without Borders

2013-Present

Founder, Director

Start the Cycle

2014-2016

CIRRICULUM DEVELOPMENT/TEACHING EXPERIENCE

University Scholars Seminar: Society in Numbers

University Scholars Programme

2018-present

Quantitative Reasoning: The Pursuit of Happiness

University Scholars Programme

2016-present

Developing Meaningful Indicators

University Scholars Programme

2016-present

PEER REVIEWED PUBLICATIONS (Selected)

Ng, Wai Ching & **Burke C.M.** (2020) Internet and Happiness in West Africa: The Next Billion Users are Not a Single Entity. *GHTC IEEE 2020*.

Burke, C.M., Chou Lin, A., Pang, Chee H., Lai, LiXuan, P. (Under Review, 2020). Interethnic Marriage Trends in Singapore: Examining the effects of Cohort and Ethnicity. *The International Journal of Intercultural Relations (IIR)*.

Burke, C.M. & Scott, D. M. (Under Review, 2019). The Bicycle Path of Least Resistance: Building Separated Bike Lanes with the Car in Mind. *Networks and Spatial Economics (NSE)*.

Burke, C.M. & Scott, D. M. (2018). Identifying “Sensible Locations” for Separated Bike Lanes on a Congested Urban Road Network: A Toronto Case Study. *The Professional Geographer* 70 (4), 541-551

Burke, C. M. & Scott, D. M. (2016). The space race: A framework to evaluate the potential travel-time impacts of reallocating road space to bicycle facilities. *Journal of Transport Geography*, 56, 110-119.

Newbold, K. B., Scott, D. M., & **Burke, C.** (2017). Immigrant status and commute distance: an exploratory study based on the greater Golden Horseshoe. *Transportation*, 43, 1-18

Burke, C. M. (2015). A comparative analysis of cross border travel influences at the port level: Pacific Highway/Douglas, BC—Blaine, WA and Windsor, ON—Detroit, MI. *Research in Transportation Business & Management*, 16, 95-101

CONFERENCE PUBLICATIONS (selected)

Ng,Wai Ching & **Burke, Charles** (2020) Internet and Happiness in West Africa: The Next Billion Users are Not a Single Entity. 2020 IEEE Global Humanitarian Technology Conference (GHTC)

CM Burke & DM Scott (2017) Identifying Sensible Locations for Separated Bike Lanes on a Congested Urban Road Network: Case Study in Toronto, Canada.
Transportation Research Board 96th Annual Meeting: *Transportation Research Board*

Burke, Charles (2016) Is the Bloor-Danforth Corridor a ‘Sensible Location’ for a Separated Bike Lane? *Conference Proceedings of the 51st Annual Canadian Transportation Research Forum*

Burke, Charles (2014). Braess Paradox and the Toronto road network. 2014 Conference *Proceedings of the Canadian Association of Geographers*

Burke, Charles (2014). The Identification of Partial Capacity Braess Paradox: Implications for Road Disinvestment. *Conference Proceedings of the 49th Annual Canadian Transportation Research Forum*

Anderson, William, Maoh, Hanna, **Burke, Charles** (2014). Passenger Car Flows Across the Canada-US Border: The Effects of 9/11. *Borders in Globalization Conference 2011*

GOVERNMENT PUBLICATIONS (selected)

Anderson, W. P., & **Burke, C. M.** (2012). Assessing the Regional Economic Impacts of a Major Highway Infrastructure Project: The Windsor Essex Parkway. *Ministry of Transportation Ontario Report I: Development of Data and Modeling Resources*

Burke, C. M., & Anderson, W. P. (2011). Estimating the Economic Impact of the Port of Montreal Lockout. *Canadian National Defence Report, Chemical, Biological, Radiological-Nuclear, and Explosives Research and Technology Initiative (CRTI)*

Anderson, W. P., & **Burke, C. M.** (2011). American Reinvestment and Recovery Act, Estimates of Job Creation by Highway Projects. *US Federal Highway Administration Final Report to the US Bureau of Economic Advisors*

Anderson, W. P., & **Burke, C. M.** (2010). Road Closure Tables Sources and Methodology. *Canadian National Defence Report, Chemical, Biological, Radiological-Nuclear, and Explosives Research and Technology Initiative (CRTI)*

NEWS

How Reddit saved my classroom and could save higher education
TedX, 2019

Teviah Moro. New Street’s ‘road diet’ to be weighed one year
Hamilton Spectator. August 18, 2016

How will you commute in 2030? *The Guardian*.
July 20, 2016.

Ryley White. Free bikes on loan at McMaster University library
University Affairs. May 23, 2016

Alexandra Pope. Free 'bike library' aims to make cycling more accessible
Canadian Geographic. April 21, 2016

Emma Reilly. Bike Library Program Seeks City Support
Hamilton Spectator. February 9, 2015

Kelly Bennett. McMaster students will stock libraries with bikes for kids to borrow
CBC news. March 20, 2015

Robyn Bresnahan. Imagine going to the library to borrow bikes, not books
CBC Radio One, Ottawa Morning. April 20, 2015

Haley Ritchie. McMaster Students hope to bring bike lending to Ottawa Public Library
Metro News. March 17, 2015

Keaton Robbins. Library bike rental program wants Ottawa
Ottawa Sun. March 16, 2015

Charles Burke. What happened to the flying car?
Canadian Geographic. February 27, 2012.

GRANTS & FELLOWSHIPS

2014 – Present Total: \$123,100

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| 2016 | Eco Canada. <i>EYC Internship Program</i> (\$15,000) |
| 2016 | City of Hamilton. <i>City Enrichment Fund Program</i> (\$7,500) |
| 2016 | Ontario Ministry of Health and Long Term Care. <i>Hamilton Healthy Kids Challenge</i> (\$36,600) |
| 2016 | Ontario Ministry of Culture and Sport. <i>Hamilton Youth Bike Library</i> (\$12,000) |
| 2015 – Present | Social Science and Humanities Research Council (SSHRC) <i>Doctoral Fellowship</i> (\$40,000) |
| 2014 | Ontario Ministry of Education. <i>Ontario Graduate Fellowship</i> (\$12,000) |

SCHOLARSHIPS, PROJECT FUNDING & AWARDS

2004 – Present Total: \$67,500

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| 2019 | Lord Laidlaw Scholarship: Rethinking Textbooks for the 21 st Century (\$5,000 SGD) |
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- 2016 – 2017 School of Graduate Studies McMaster University Student Proposals for Intellectual Community & Engaged Scholarship (SPICES) *McMaster Open Learning Environment (MOLE)* (\$4,000)
- 2015 – 2016 School of Graduate Studies McMaster University Student Proposals for Intellectual Community & Engaged Scholarship (SPICES) *CherryPic: The Discovery app* (\$5,000)
- 2014 – 2015 (FWI) McMaster Forward With Integrity Grant. *Start the Cycle Bike Library Project* (\$10,000)
- 2014 – 2015 School of Graduate Studies McMaster University Student Proposals for Intellectual Community & Engaged Scholarship (SPICES) *Interdisciplinary Planning Certificate* (\$4,500)

STUDENTS SUPERVISED

- 2017 Hwang Yung-Zhen, Anne & Lim Kay Yee, Rachel
Examining the cultural fit of mature workers in today's high growth tech Industries
- 2017 Feng Ye
To what extent does streaming fairly assess and influence students' learning ability?
- 2018 Audrey Chua
What Influences our Eating Habits? A Study of the Effects of Different Levels of Aggregation in Dynamic Norm Statements on the Reduction of Meat Consumption
- 2018 Kathy Tan Kia Sim and Lim, Ren Ai
Exploring 'Meritocracy' in the context of a Singaporean Education
- 2018 Charis Elora Soon
Po Go or Po Gone, closing the generation gap between PokemonGo players
- 2019 Guo KaiYun
Community Gardens or Gardens in a Community? Examining spatial and information access to community gardens in Singapore
- 2019 Mohamad Asyraf bin Zaidi, Saranya Thiru
Using Haidt's Moral Foundation theory to explore race relations in Singapore
- 2020 Chan Mun Wei Zach and Tay Ming Kiat
Developing Unique Classroom Environments

COMMUNITY SERVICE (ACADEMIC)

University Scholars Programme, *Department Ethics Review Committee*

Reviewer, *Transportation Research Record*

Reviewer, International Journal of Sustainable Transportation

Founder, Executive Council, Scientist Association at Mac

Founder, McMaster University Chapter Geographers without Borders Project

Coordinator, *MOLE*, McMaster Open Learning Environment McMaster

Graduate Student Association Board of Directors

Community Member, The Forge, McMaster University's Campus Linked Accelerator

COMMUNITY SERVICE (NON-ACADEMIC)

McMaster University Bike Library Program

Mohawk College Bike Library Program

City of Hamilton Youth Bike Library Program

Bishop's University Youth Football Coach

PROFESSIONAL AFFILIATIONS

Canadian Association of Geographers Canadian

Regional Science Association Canadian Transportation Research Forum Golden Key

International Golden Key Honor Society

REFERENCES

Barbara Ryan

Associate Professor

University Scholars Programme, National University of Singapore

usprbt@nus.edu.sg

Tel: (65) 6516 4068

18 College Avenue East

Singapore 138593

Darren Scott

Professor/Associate Director, School of Geography & Earth Sciences, McMaster

University Email: scottdm@mcmaster.ca

Tel: (905) 525-9140 ext. 24953

General Science Building, Rm 237 1280 Main Street West

Hamilton, On, L8S 4L8

William Anderson

Professor of Political Science, University of Windsor Director of Cross-Border Institute
(CBI) Ontario Research Chair in Cross-Border Transportation Policy

Email: bander@uwindsor.ca

Phone: 519-253-3000 ext. 2366

Essex Hall 207, 401 Sunset Avenue Windsor, Ontario N9B 3P4
