

CURRICULUM VITAE

NAME: FORSYTHE, K. Wayne

RANK: Full Professor

TENURED (date): Yes (September 2004)

FULL-TIME: Yes

EDUCATION

<i>Degree</i>	<i>University</i>	<i>Department</i>	<i>Year</i>
Ph.D.	Salzburg (Austria)	Geography and Geoinformation	1999
M.Sc.	Calgary	Geography	1995
B.Sc. (Hons.)	Saskatchewan	Geography	1990

ACADEMIC AND PROFESSIONAL APPOINTMENTS

<i>Date</i>	<i>Rank and/or Position</i>	<i>Department</i>	<i>Institution</i>
September 2011 to present	Full Professor	Geography and Environmental Studies	Toronto Metropolitan University (formerly Ryerson University)
September 2005 to August 2011	Associate Professor	Geography	Ryerson University
August 1999 to August 2005	Assistant Professor	Geography	Ryerson University

HONOURS: ACADEMIC, SCHOLARLY, AND PROFESSIONAL

- 2021 Canadian Association of Geographers - Ontario Division (CAGONT) Service to Ontario Geography Award in recognition of an individual's significant and lasting contribution to scholarship, teaching or broader service to Geography in Ontario.
- 2020 AGIT | GI_Forum Poster Session (3rd Place), for *3D Geovisualization of Historic and Contemporary Lead Sediment Contamination in Lake Erie*, with co-authors D.E. Mitchell (Ryerson University), C.H. Marvin (Environment and Climate Change Canada), D.A. Burniston (Environment and Climate Change Canada), S.J. Swales (University of Toronto), and M.W. MacDonald (Ryerson University) at the Virtual 32nd Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung) Symposium, AGIT 2020/GI_Forum. July 6-10, 2020. Salzburg, AUSTRIA.
- 2020 Ryerson University, Dean's Service Award for valued contributions to the Department of Geography and Environmental Studies, the Faculty of Arts, Ryerson University and the Profession of Geography.

- 2019 Canadian Association of Geographers/l'Association canadienne des géographes (CAG/ACG) Award for Service to the Profession of Geography/Le prix pour services rendus à la profession de géographe. This award recognizes a member of the CAG for exceptional professional service over a period of years that has significantly advanced the profession and practice of geography in Canada (<https://www.cag-acg.ca/awards-and-grants>).
- 2017 Canadian Association of Geographers/l'Association canadienne des géographes (CAG/ACG) President's Award for Outstanding Service to the Canadian Association of Geographers/Prix du président pour services exceptionnels rendus à l'Association canadienne des géographes recognizing exceptional service to the association, its members, and affiliates by a member of the association (<https://www.cag-acg.ca/awards-and-grants>).
- 2013 Ryerson University, Faculty Service Award for valued contributions to the Department of Geography, the Faculty of Arts, Ryerson University and the Profession of Geography.
- 2010 Awarded the distinction "Geographer of the Week" by the Canadian Association of Geographers/l'Association canadienne des géographes (CAG/ACG) in recognition of my efforts in organizing the Canadian Association of Geographers - Ontario Division (CAGONT) 2010 Annual Meeting (November 2, 2010).
- 2005 Awarded the distinction "UNIGIS International Fellow" by the UNIGIS International Association (www.unigis.net) based in the Netherlands in recognition of outstanding and sustained contributions to excellence in Postgraduate Education in Geographic Information Science and Systems.
- 2000 Best Conference Poster, for *Snowcover Estimation Models*, at the 12th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XII), AGIT 2000. July 5-7, 2000. Salzburg, AUSTRIA.

PUBLICATIONS

CAREER TOTALS (*SINCE COMING TO RYERSON IN AUGUST 1999*)

Articles Accepted in Refereed Journals:	29
Articles Accepted in Refereed Conference Proceedings:	3
Refereed Conference Abstracts and/or Papers:	13
Published Learning Materials:	5
Edited Books:	1
Book Reviews:	1
Other Abstracts/Papers in Published Conference Proceedings:	13
Abstracts and/or Papers Read:	109
Note: * indicates former or current undergraduate student	
** indicates former or current graduate student	

Articles Accepted in Refereed Journals (29)

De Wit, V.** and K.W. Forsythe. 2023. Urban Structure Changes in Three Areas of Detroit, Michigan (2014–2018) Utilizing Geographic Object-Based Classification. *Land*. 2023, (12)763. <https://doi.org/10.3390/land12040763>

Chmarycz, V.* and K.W. Forsythe. 2021. Examining Wildfire Spread Variables for Assessing Forest Burn Vulnerability. *GI_Forum 2021, Journal for Geographic Information Science*. 9(2), pp. 94-107. doi:[10.1553/giscience2021_02_s94](https://doi.org/10.1553/giscience2021_02_s94)

Forsythe, K.W., D.E. Ford**, C.H. Marvin, R.R. Shaker, M.W. MacDonald, and R. Wilkinson. 2021. Multivariable 3D Geovisualization of Historic and Contemporary Lead Sediment Contamination in Lake Erie. *Pollutants*. 2021, 1(1), pp. 29-50. doi:[10.3390/pollutants1010004](https://doi.org/10.3390/pollutants1010004)

Medland, S.J., R.R. Shaker, K.W. Forsythe, B.R. Mackay, and G. Rybarczyk. 2020. [A multi-Criteria Wetland Suitability Index for Restoration Across Ontario's Mixedwood Plains](#). *Sustainability*. 12(9953). doi:[10.3390/su12239953](https://doi.org/10.3390/su12239953)

Forsythe, K.W., C.H. Marvin, D.A. Burniston, M.W. MacDonald, and J.P. Watt*. 2019. [Geovisualization of Mercury Sediment Contamination in Lake Ontario](#). *AGIT Journal für Angewandte Geoinformatik*. 5(2019), pp. 348-359. doi:10.14627/537669033.

Shaker, R.R., Y. Altman, C. Deng, E. Vaz, and K.W. Forsythe. 2019. [Investigating urban heat island through spatial analysis of New York City streetscapes](#). *Journal of Cleaner Production*. 233(2019), pp. 972-992. doi:[10.1016/j.jclepro.2019.05.389](https://doi.org/10.1016/j.jclepro.2019.05.389)

Mitchell, D.E.**, K.W. Forsythe, C.H. Marvin, and D.A. Burniston. 2019. [Temporal Trends and Origins of Lake Erie Cadmium Contamination in Relation to Sediment Substrate Type Using Multivariate Kriging Analyses](#). *International Journal of Geospatial and Environmental Research*. 6(1), Article 3, pp.1-21.

Mitchell, D.E.**, K.W. Forsythe, C.H. Marvin, and D.A. Burniston. 2018. [Assessing Statistical and Spatial Validity of Sediment Survey Design and Sampling Densities: Examples from Lake Erie](#). *Water Quality Research Journal*. August 2018, WQRJ-D-17-00029R1, pp. 118-132. doi:10.2166/wqrj.2018.029

Forsythe, K.W., C. Hare**, A.J. Buckland**, R.R. Shaker, J.M. Aversa, S.J. Swales, and M.W. MacDonald. 2018. [Assessing fine particulate matter concentrations and trends in southern Ontario, Canada, 2003–2012](#). *AIMS Environmental Science*. 5(1), pp. 35-46. doi:[10.3934/environsci.2018.1.35](https://doi.org/10.3934/environsci.2018.1.35)

Shaker, R.R., A.D. Yakubov, S.M. Nick, E. Vennie-Vollrath, T.J. Ehlinger, and K.W. Forsythe. 2017. [Predicting aquatic invasion in Adirondack lakes: A spatial analysis of lake and landscape characteristics](#). *Ecosphere*. 8(3), pp. 1-25, e01723. doi:[10.1002/ecs2.1723](https://doi.org/10.1002/ecs2.1723).

Forsythe, K.W., C.H. Marvin, D.E. Mitchell**, J.M. Aversa, S.J. Swales, D.A. Burniston, J.P. Watt*, D.J. Jakubek**, M.H. McHenry*, and R.R. Shaker. 2016. [Utilization of bathymetry data to examine lead sediment contamination distributions in Lake Ontario](#). *AIMS Environmental Science*. 3(3), pp. 347-361. doi:10.3934/environsci.2016.3.347

Forsythe, K.W., C.H. Marvin, C.J. Valancius**, J.P. Watt*, J.M. Aversa, S.J. Swales, D.J. Jakubek**, and R.R. Shaker. 2016. [Geovisualization of Mercury Contamination in Lake St. Clair Sediments](#). *Journal of Marine Science and Engineering*. 4(19). doi:10.3390/jmse4010019.

Forsythe, K.W., C.H. Marvin, C.J. Valancius**, J.P. Watt*, S.J. Swales, J.M. Aversa, and D.J. Jakubek**. 2016. [Using Geovisualization to Assess Lead Sediment Contamination in Lake St. Clair](#). *The Canadian Geographer/Le Géographe canadien*. Vol. 60 (1), pp. 149-158. doi:[10.1111/cag.12253](#)

Forsythe, K.W., K.N. Irvine, D.M. Atkinson, M. Perelli, J.M. Aversa, S.J. Swales, A. Gawedzki**, and D.J. Jakubek**. 2015. Assessing Lead Contamination in Buffalo River Sediments. *Journal of Environmental Informatics*. 26(2), pp. 106-111. doi:[10.3808/jei.201500300](#)

Forsythe, K.W. and G. McCartney**. 2014. [Investigating Forest Disturbance Using Landsat Data in the Nagagamis Central Plateau, Ontario, Canada](#). *ISPRS International Journal of Geo-Information*. Vol. 3, No. 1, pp. 254-273. doi:10.3390/ijgi3010254

Forsythe, K.W., A. Gawedzki**, P.S. Rodriguez**, K.N. Irvine and M.F. Perrelli. 2013. Geospatial Estimation of Mercury Contamination in Buffalo River Sediments. *Soil and Sediment Contamination An International Journal*. Vol. 22, No. 5, pp.521-531. doi:[10.1080/15320383.2013.750266](#) ([Abstract](#))

Ferrato, L-J.** and K.W. Forsythe. 2013. [Comparing Hyperspectral and Multispectral Imagery for Land Classification of the Lower Don River, Toronto](#). *Journal of Geography and Geology*. Vol. 5, No. 1, pp. 92-107. doi:10.5539/jgg.v5n1p92

Forsythe, K.W., B. Schatz, S.J. Swales, L-J. Ferrato** and D.M. Atkinson. 2012. [Visualization of Lake Mead Surface Area Changes from 1972-2009](#). *ISPRS International Journal of Geo-Information*. Vol. 1, No. 2, pp. 108-119. doi:10.3390/ijgi1020108

Gawedzki, A.** and K.W. Forsythe. 2012. [Assessing Anthracene and Arsenic Contamination within Buffalo River Sediments](#). *International Journal of Ecology*. Vol. 2012, Article ID 496740, 9 pages. doi:[10.1155/2012/496740](#) ([PDF](#))

Forsythe, K.W., K. Paudel and C.H. Marvin. 2010. [Geospatial Analysis of Zinc Contamination in Lake Ontario Sediments](#). *Journal of Environmental Informatics* 16(1), 1-10. doi:[10.3808/jei.201000172](#)

Forsythe, K.W. and C.H. Marvin. 2009. [Assessing Historical versus Contemporary Mercury and Lead Contamination in Lake Huron Sediments](#). *Aquatic Ecosystem Health & Management*. Vol. 12, Issue 1, pp. 101-109. doi:[10.1080/14634980802690873](#)

Sun, H., K.W. Forsythe and N.M. Waters. 2007. [Modelling Urban Land Use Change and Urban Sprawl: Calgary, Alberta, Canada](#). *Networks and Spatial Economics*. Vol. 7, No. 4, pp. 353-376, doi:[10.1007/s11067-007-9030-y](#)

Forsythe, K.W. and N.M. Waters. 2006. The Utilization of Image Texture Measures in Urban Change Detection. *Photogrammetrie-Fernerkundung-Geoinformation*. PFG 4/2006, pp. 287-296.

Forsythe, K.W. and C.H. Marvin. 2005. [Analyzing the Spatial Distribution of Sediment Contamination in the Lower Great Lakes](#). *Water Quality Research Journal of Canada*. Vol. 40, No. 4, pp. 389-401. (PDF)

Forsythe, K.W., M. Dennis* and C.H. Marvin. 2004. [Comparison of Mercury and Lead Sediment Concentrations in Lake Ontario \(1968-1998\) and Lake Erie \(1971-1997/98\) using a GIS-based Kriging Approach](#). *Water Quality Research Journal of Canada*. Vol. 39, No. 3, pp. 190-206. (PDF)

Forsythe, K.W. 2004. Pansharpened Landsat 7 Imagery for Improved Urban Area Classification. *Geomatica*. Vol. 58, No. 1, March 2004, pp. 23-31.

Forsythe, K.W. 2004. The 4th International Symposium Remote Sensing of Urban Areas: Outcomes and Future Directions. *Geomatica*. Vol. 58, No. 1, March 2004, pp. 52-54. (Invited Paper).

Jakubek, D.J.** and K.W. Forsythe. 2004. [A GIS-based Kriging Approach for Assessing Lake Ontario Sediment Contamination](#). *The Great Lakes Geographer*. Volume 11, No. 1, 2004, pp. 1-14. (PDF)

Forsythe, K.W. and R.D. Wheate. 2003. Utilization of Landsat TM and Digital Elevation Data for the Delineation of Avalanche Slopes in Yoho National Park (Canada). *IEEE Transactions on Geoscience and Remote Sensing*. Vol. 41, No.11, November 2003, pp. 2678-2682. doi:[10.1109/TGRS.2003.817183](#)

Articles Accepted in Refereed Conference Proceedings (3)

Forsythe, K.W., A. Gawedzki*, and P.S. Rodriguez**. 2010. [Assessing Sediment Contamination in the Buffalo River](#). In: Strobl, J., T. Blaschke, and G. Griesebner (Eds.) *Proceedings of the 22nd Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXII), AGIT 2010*. July 7-9, 2010. Salzburg, AUSTRIA. Herbert Wichmann Verlag, Hüthig GmbH & Co. KG, Heidelberg, Germany. pp. 606-615. ISBN: 978-3-87907-495-2

Forsythe, K.W. and J.P. Watt*. 2006. [Using Geovisualization to Assess Sediment Contamination in the "Sixth" Great Lake](#). In: Strobl, J., T. Blaschke, and G. Griesebner (Eds.) *Proceedings of*

the 18th Symposium for Applied Geographic Information Processing (*Angewandte Geographische Informationsverarbeitung XVIII*), AGIT 2006. July 5-7, 2006. Salzburg, AUSTRIA. Herbert Wichmann Verlag, Hüthig GmbH & Co. KG, Heidelberg, Germany. pp. 161-170. ISBN 13: 978-3-87907-437-2 ([PDF](#))

Forsythe, K.W. 2004. [Ein Vergleich der Sedimentverschmutzung im Erie- und Ontariosee](#). In: Strobl, J., T. Blaschke, and G. Griesebner (Eds.) *Proceedings of the 16th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XVI)*, AGIT 2004. July 7-9, 2004. Salzburg, AUSTRIA. Herbert Wichmann Verlag, Hüthig GmbH & Co. KG, Heidelberg, Germany. pp. 129-138. ISBN 3-87907-406-2 ([PDF](#))

Refereed Conference Abstracts and/or Papers (13)

Gawedzki, A.* and K.W. Forsythe. 2009. Analysis of the Geographic Distribution of Metal Contaminants in the Buffalo River. *Proceedings of the Canadian Association of Geographers - Ontario Division (CAGONT) 2009 Annual Meeting*. October 16-17, 2009. Mississauga, Ontario, CANADA.

Rodriguez, P.S.** and K.W. Forsythe. 2009. Assessing the Geographic Distribution of Mercury and Lead in Buffalo River Sediments. *Proceedings of the Canadian Association of Geographers - Ontario Division (CAGONT) 2009 Annual Meeting*. October 16-17, 2009. Mississauga, Ontario, CANADA.

Dekryger, J.* and K.W. Forsythe. 2009. Spatial Analysis of Contaminant Trends in Lake St. Clair: 1970, 1974, and 2001. *Proceedings of the 44th Central Canadian Symposium on Water Quality Research*. February 23-24, 2009. Burlington, Ontario, CANADA.
http://www.cawq.ca/en/docs/central_symp/044/book_of_abstracts.pdf

Archambault, M.-C.**, K.W. Forsythe, and J. Grant. 2008. Analysing Sediment Property Trends for Three Coastal Bays in Nova Scotia using Kriging. *Proceedings of the Canadian Association of Geographers 58th Annual Meeting*. May 20-24, 2008. Quebec City, Quebec, CANADA.

Adams, T.G.*, K.W. Forsythe, and M.-C. Archambault**. 2008. Geostatistical Analysis of Lake Ontario Sediment Contamination. *Proceedings of the 43rd Central Canadian Symposium on Water Quality Research*. February 11-12, 2008. Burlington, Ontario, CANADA.

Archambault, M.-C.**, K.W. Forsythe, and T.G. Adams*. 2008. Analyzing Lake Erie Sediment Contamination Trends. *Proceedings of the 43rd Central Canadian Symposium on Water Quality Research*. February 11-12, 2008. Burlington, Ontario, CANADA.

Forsythe, K.W. 2007. Using Image Texture and Principal Components for Time-Series Analysis of Urban Growth. *Proceedings of the 27th EARSeL Symposium "Geoinformation in Europe" and Workshop "Tools and Techniques for the Analysis of Time Series Image Data"*. June 7-8, 2007. Bozen/Bolzano, ITALY.

Forsythe, K.W., C.H. Marvin, I. Fleming*, and L.M. Lui*. 2006. Assessing Historical vs. Contemporary Metals Contamination in Lake Huron Sediments. *Proceedings of the 2nd International Symposium on the Lake Huron Ecosystem - The State of Lake Huron - Ecosystem Change, Habitat, Contaminants, and Management*. October 11-13, 2006. Honey Harbour, Ontario, CANADA.

Forsythe, K.W. and P. Du**. 2006. Development Patterns in Canada's Largest Urban Agglomeration: Four Decades of Evolution. In: Hostert, P., S. Schiefer, and A. Damm (Eds.) *Proceedings of the 1st International Workshop of the EARSeL Special Interest Group Urban Remote Sensing (SIG-URS) "Challenges and Solutions"*. March 2-3, 2006. Berlin, GERMANY. (CD-ROM).

Forsythe, K.W. 2005. Monitoring Rapid Urban Expansion: A Case Study of Calgary, Alberta, Canada. In: Moeller, M. and E. Wentz (Eds.) *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Vol. XXXVI-8/W27. Proceedings of the ISPRS Joint Conferences 3rd International Symposium Remote Sensing and Data Fusion Over Urban Areas (URBAN 2005) and the 5th International Symposium Remote Sensing of Urban Areas (URS 2005). March 14-16, 2005. Tempe, Arizona, USA. ISSN 1682-1777 (CD-ROM).

Sun, H., K.W. Forsythe, and N.M. Waters. 2005. Urban land use change and urban sprawl analysis: A case study of Calgary, Alberta, Canada. *Proceedings of the 8th Network on European Communication and Transportation Activities Research - NECTAR VIII Conference*. June 2-4, 2005. Las Palmas, Gran Canaria, SPAIN. (CD-ROM).

Forsythe, K.W. 2003. Monitoring "Megacity" Urban Development Pansharpened Landsat 7 Results for Toronto, Ontario, Canada. In: Jürgens, C. (Ed.) *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Vol. XXXIV-7/W9. Proceedings of the 4th International Symposium Remote Sensing of Urban Areas (URS 2003). June 27-29, 2003. Regensburg, GERMANY. pp. 60-65. ISSN 1682-1777 (CD-ROM).

Forsythe, K.W. 2002. Stadtentwicklung in Calgary, Toronto, und Vancouver: Interpretation mit Landsatdaten. In: Strobl, J., T. Blaschke, and G. Griesebner (Eds.) *Proceedings of the 14th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XIV), AGIT 2002*. July 3-5, 2002. Salzburg, AUSTRIA. Herbert Wichmann Verlag, Hüthig GmbH & Co. KG, Heidelberg, Germany. pp. 105-110. ISBN 3-87907-372-4

Published Learning Materials (5)

Dennis, M.*, K.W. Forsythe, C. Hare*, and A. Gawedzki*. 2012. Kriging Great Lakes Sediment Contamination Values "Cookbook" for ArcGIS 10.x. Toronto, Ontario: Ryerson University, Department of Geography. 51 pp. Available online at:
<http://www.geography.ryerson.ca/wayne/KrigingCookbook2012.pdf>

Dennis, M.*, K.W. Forsythe, and A. Gawedzki*. 2009. Kriging Great Lakes Sediment Contamination Values "Cookbook". Toronto, Ontario: Ryerson University, Department of Geography. 43 pp.

Dennis, M.* and K.W. Forsythe. 2007. Kriging Great Lakes Sediment Contamination Values “Cookbook”. Toronto, Ontario: Ryerson University, Department of Geography. 42 pp.

Forsythe, K.W. 2006. Update and Revision of: Module 3 - Data Sources and Data Acquisition (online). The *UNIGIS International Masters in Geographic Information Science & Systems*. UNIGIS/ZGIS - Centre for Geoinformatics. Salzburg, AUSTRIA.

Forsythe, K.W. and S.J. Swales. 2004. Module 3 - Data Sources and Data Acquisition (online). The *UNIGIS International Masters in Geographic Information Science & Systems*. UNIGIS/ZGIS - Centre for Geoinformatics. Salzburg, AUSTRIA.

Edited Books (1)

Forsythe, K.W. 2010. Editor of: The Canadian Association of Geographers - Ontario Division (CAGONT) 2010 Annual Meeting Book of Abstracts. Toronto: Ryerson University, Department of Geography. 119 pp. Published online at: <http://www.geography.ryerson.ca/cagont2010>

Book Reviews (1)

Forsythe, K.W. 2006. Review of *Field Methods in Remote Sensing* by Roger M. McCoy (The Guilford Press, New York, 2005), *The Canadian Geographer/Le Géographe canadien* Vol. 50(4), pp. 527-528.

Other Abstracts/Papers in Published Conference Proceedings (13)

Forsythe, K.W., B. Schatz, and S.J. Swales. 2010. Landsat Mapping of Changes in the Shoreline of Lake Mead from 1972-2009. In: Piwowar, J.M. (Ed). *Proceedings of The Prairie Summit: Joint Conference of the Canadian Association of Geographers, the Canadian Cartographic Association, the Canadian Geomorphology Research Group, and the Canadian Remote Sensing Society*. June 1-5, 2010. Regina, Saskatchewan, CANADA. Department of Geography, University of Regina. pp. 109-112.

Forsythe, K.W. 2007. Geospatial Analysis of Great Lakes Mercury Contamination. *Proceedings of the Canadian Association of Geographers 57th Annual Meeting*. May 29-June 2, 2007. Saskatoon, Saskatchewan, CANADA.

Watt, J.P.* and K.W. Forsythe. 2005. Assessment of Historical Mercury and Lead Contamination in the Great Lakes Basin. *Proceedings of the 40th Central Canadian Symposium on Water Quality Research*. February 14-15, 2005. Burlington, Ontario, CANADA.

Forsythe, K.W. and W.Z. Michalak. 2004. Geovisualization of Sediment Contamination in the Great Lakes Basin. *Proceedings of the 2004 Annual Meeting of the East Lakes Division of the Association of American Geographers*. October 15-16, 2004. Athens, Ohio, USA.

Forsythe, K.W. 2004. Estimating Lake Erie Sediment Contamination with GIS-based Kriging. *Proceedings of the GIS 2004 Conference (GeoTec Event)*. March 28-31, 2004. Toronto, Ontario, CANADA. Geotec Media. Boulder, Colorado. (CD-ROM).

Finney, K.M.** and K.W. Forsythe. 2004. Detecting Urban Development in the Vancouver Census Metropolitan Area using Pansharpened Landsat ETM+ Imagery. *Proceedings of the Canadian Association of Geographers - Ontario Division (CAGONT) 2004 Annual Meeting*. October 29-30, 2004. Waterloo, Ontario, CANADA.

Dennis, M.* and K.W. Forsythe. 2004. Comparison of Mercury and Lead Sediment Concentrations in Lake Ontario (1968-1998) and Lake Erie (1971-1998) using a GIS-based Kriging Prediction Approach. *Proceedings of the 39th Central Canadian Symposium on Water Quality Research*. February 9-10, 2004. Burlington, Ontario, CANADA.

Harlow, M.S.** and K.W. Forsythe. 2003. Urban Development Detection within the Upper Thames River Conservation Authority for the Period 1991 - 1999 using Landsat TM and ETM+ data. *Proceedings of the Canadian Association of Geographers - Ontario Division (CAGONT) 2003 Annual Meeting*. October 24-25, 2003. Kingston, Ontario, CANADA.

Montain, J.M.** and K.W. Forsythe. 2003. A Comparison of Spatial Autocorrelation Results: Standardized Mortality Ratios of Heart Disease, Lung Cancer, and Stroke in Ontario. *Proceedings of the Canadian Association of Geographers 53rd Annual Meeting*. May 27-31, 2003. Victoria, B.C., CANADA.

Forsythe, K.W. 2002. The Changing Urban Landscape of the Toronto Region: 1974 to 2001. *Proceedings of the Canadian Association of Geographers 52nd Annual Meeting*. May 28-June 1, 2002. Toronto, Ontario, CANADA.

Forsythe, K.W. and C. Caschera*. 2002. Urban Change Detection Using the Landsat Archive. *Proceedings of the GIS 2002 Conference (GeoTec Event)*. April 8-11, 2002. Toronto, Ontario, CANADA. Geotec Media. Boulder, Colorado. (CD-ROM)

Jakubek, D.J.** and K.W. Forsythe. 2002. Assessing Lake Ontario Sediment Contamination: A GIS-based Kriging Approach. *Proceedings of the Canadian Association of Geographers - Ontario Division (CAGONT) 2002 Annual Meeting*. October 25-26, 2002. London, Ontario, CANADA.

Montain, J.M.** and K.W. Forsythe. 2002. Spatial Autocorrelation in Public Health Data: An Analysis of Standardized Mortality Ratios for Heart Disease, Lung Cancer, and Stroke in Ontario. *Proceedings of the Canadian Association of Geographers 52nd Annual Meeting*. May 28-June 1, 2002. Toronto, Ontario, CANADA.

Abstracts and/or Papers Read (109)

Aversa, J.A., K.W. Forsythe, and V. De Wit**. 2023. Mixed Use Shopping Centres: A Catalyst for Urban Development. *Presented at GISalzburg23*. July 4-6, 2023. Salzburg, AUSTRIA.

De Wit, V.** and K.W. Forsythe. 2022. Geographic Object-Based Image Analysis Change Detection in a Shrinking City: Detroit, Michigan, 2014-2018. *Presented at GISalzburg22*. July 4-7, 2022. Salzburg, AUSTRIA.

Forsythe, K.W. 2021. COVID-19 and Geographies of Academic Work (Invited Panelist). *Presented at the Canadian Association of Geographers - Ontario Division (CAGONT) Virtual 2021 Annual Meeting*. November 13, 2021. Hosted by the Department of Geography and Environment, University of Western Ontario. London, Ontario, CANADA.

Chmarnycz, V.*, K.W. Forsythe, and R.R. Shaker. 2021. Exploring Wildfire Spread Indicators for Improving Land Vulnerability Predictions. *Presented at the Virtual GI_Forum 2021 (GI_Week 2021 - Reconnecting Spatially: Hybrid AGIT 2021, Virtual GI_Forum 2021, and Hybrid ISDE12)*. July 6-9, 2021. Salzburg, AUSTRIA.

Shaker, R.R., G. Rybarczyk, S.J. Medland, K.W. Forsythe, and B.R. Mackay. 2021. A multi-criteria wetland suitability index for restoration across Ontario's Mixedwood Plains. *Presented at the 2021 AAG Virtual Annual Meeting*. April 7-11, 2021.

Forsythe, K.W. 2020. Spatial Coffee. *Presented at the Master of Spatial Analysis Virtual Seminar Series Spatial Coffee*. November 25, 2020.

Forsythe, K.W., D.E. Mitchell**, C.H. Marvin, D.A. Burniston, S.J. Swales, and M.W. MacDonald. 2020. Geovisualization of Historic and Contemporary Lead Sediment Contamination in Lake Erie. *Presented at the Virtual 32nd Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung) Symposium, AGIT 2020/GI_Forum*. July 6-10, 2020. Salzburg, AUSTRIA.

Forsythe, K.W., C.H. Marvin, D.A. Burniston, M.W. MacDonald, S.J. Swales, and J.P. Watt*. 2019. Geovisualization of Mercury Sediment Contamination in Lake Ontario. *Presented at the 31st Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung) Symposium, AGIT 2019/GI_Forum*. July 2-5, 2019. Salzburg, AUSTRIA.

Swales, S.J., K.W. Forsythe, and M.W. MacDonald. 2019. The Spatial View in Experiential Learning. *Presented at the 31st Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung) Symposium, AGIT 2019/GI_Forum*. July 2-5, 2019. Salzburg, AUSTRIA.

Forsythe, K.W., D.E. Mitchell**, R.R. Shaker, M.W. MacDonald, S.J. Swales, and J.M. Aversa. 2019. 3D Geovisualization of Lead Sediment Contamination in Lake Erie. *Presented at the 2019 CAG/ACG Annual Meeting*. May 27-31, 2019. Winnipeg, Manitoba, CANADA.

Swales, S.J., K.W. Forsythe, and J.M. Aversa. 2019. Recent Market Change and Retail Responses in Canada. *Presented at the 2019 AAG Annual Meeting*. April 3-7, 2019. Washington, DC, USA.

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Forsythe, K.W. 2002. Satellite Observation of Urban Development in Calgary, Toronto, and Vancouver. *Presented at the 14th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XIV), AGIT 2002*. July 3-5, 2002. Salzburg, AUSTRIA.

Forsythe, K.W. 2002. The Changing Urban Landscape of the Toronto Region: 1974 to 2001. *Proceedings of the Canadian Association of Geographers 52nd Annual Meeting*. May 28-June 1, 2002. Toronto, Ontario, CANADA.

Forsythe, K.W. and C. Caschera*. 2002. Assessing Urban Renewal and Growth in Toronto: 1974, 1985, and 2000. *Proceedings of the Canadian Association of Geographers 52nd Annual Meeting*. May 28-June 1, 2002. Toronto, Ontario, CANADA.

Forsythe, K.W. and C. Caschera*. 2002. Urban Change Detection Using the Landsat Archive. *Proceedings of the GIS 2002 Conference (GeoTec Event)*. April 8-11, 2002. Toronto, Ontario, CANADA. Geotec Media. Boulder, Colorado. (CD-ROM)

Jakubek, D.J.** and K.W. Forsythe. 2002. Assessing Lake Ontario Sediment Contamination: A GIS-based Kriging Approach. *Proceedings of the Canadian Association of Geographers -*

Ontario Division (CAGONT) 2002 Annual Meeting. October 25-26, 2002. London, Ontario, CANADA.

Montain, J.M.** and K.W. Forsythe. 2002. Spatial Autocorrelation in Public Health Data: An Analysis of Standardized Mortality Ratios for Heart Disease, Lung Cancer, and Stroke in Ontario. *Proceedings of the Canadian Association of Geographers 52nd Annual Meeting*. May 28-June 1, 2002. Toronto, Ontario, CANADA.

Forsythe, K.W. 2000. Snowcover Estimation Models. *Presented at the 12th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XII), AGIT 2000*. July 5-7, 2000. Salzburg, AUSTRIA.

SCHOLARLY AND PROFESSIONAL ACTIVITIES (1999 to date)

Reviewing Manuscripts and Research Proposals:

Since December 2014 - referee for: *Geomatica*

Since January 2014 - referee for: *Prairie Perspectives*

Since May 2013 - referee for: *Entropy*

Since September 2012- referee for: *International Journal of Applied Geospatial Research*

Since June 2012 - referee for: *International Journal of Environmental Research and Public Health*

Since January 2012 - referee for: *Urban Geography*

From December 2011 to February 2012 - referee for: *The 2012 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2012*, July 22-27, 2012. Munich, Germany.

Since April 2011 - referee for: *Cartographica*

From January 2011 to February 2011- referee for: *The 2011 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2011*, August 1-5, 2011. Sendai, Japan (moved to July 24-29, 2011, Vancouver, Canada).

Since January 2011 - referee for: *Journal of Soils and Sediments*

Since October 2010 - referee for: *Journal of Environmental Informatics*

Since June 2010 - referee for: *Applied Geography*

From January 2010 to February 2010 - referee for: *The 2010 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010*, July 25-30, 2010. Honolulu, Hawaii, USA.

Since June 2009 - referee for: *The Canadian Geographer/Le Géographe canadien*

Since April 2009 - referee for: *Soil and Sediment Contamination, An International Journal*

From January 2009 to March 2009 - referee for: *The 2009 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2009*, July 13-17, 2009. Cape Town, South Africa.

Since June 2008 - referee for: *Remote Sensing of Environment*

From January 2008 to March 2008 - referee for: *The 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008*, July 7-11, 2008. Boston, Massachusetts, USA.

Since June 2007 - referee for the: *Journal of Environmental Management*

Since February 2005 - referee for: *The Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung - AGIT) Symposium*, held annually in Salzburg, AUSTRIA.

From June 2004 to December 2004 - referee for: *The ISPRS Book Series - Advances in Mobile Mapping Technology*
Since September 2002 - referee for: *The International Journal of Remote Sensing*

Academic Conference Professional Service:

Panelist: COVID-19 and Geographies of Academic Work. Canadian Association of Geographers - Ontario Division (CAGONT) Virtual 2021 Annual Meeting. November 13, 2021. Hosted by the Department of Geography and Environment, University of Western Ontario. London, Ontario, CANADA.

Scheduled Panelist: Geoinformatics in Academia, Geoinformatics: GIScience Symposium 2020, May 7-8, 2020, Salzburg, Austria. Conference cancelled due to COVID-19.

Department Representative: Ontario Association for Geographic and Environmental Education (OAGEE) Fall Conference, November 10-11, 2017. Aurora, Ontario, CANADA.

Session Chair: Physical Geography: Soils & Water - 11:45am to 1:00pm, Saturday October 29, 2016. Canadian Association of Geographers - Ontario Division (CAGONT) 2016 Annual Meeting, October 28-29, 2016. Waterloo, Ontario, CANADA.

Session Chair: Modellierung in der Planung - 11:00am to 12:30pm, Friday July 8, 2016. AGIT/GI Forum 2016 Conference, July 5-8, 2016. Salzburg, AUSTRIA.

Session Chair: GIScience-Modelling - 11:30am to 1:00pm, Thursday July 7, 2016. AGIT/GI Forum 2016 Conference, July 5-8, 2016. Salzburg, AUSTRIA.

Department Representative: Ontario Association for Geographic and Environmental Education (OAGEE) Fall Conference, November 13-14, 2015. Toronto, Ontario, CANADA.

Student Poster Competition Referee: Student Poster Competition Referee, Canadian Association of Geographers - Ontario Division (CAGONT) 2015 Annual Meeting, October 23-24, 2015. Ottawa, Ontario, CANADA.

Session Chair: Naturgefahren - 11:30am to 1:00pm, Thursday July 9, 2015. AGIT 2015 Conference, July 8-10, 2015. Salzburg, AUSTRIA.

Session Chair: Lakes - 3:30pm to 4:50pm, Saturday October 25, 2014. Canadian Association of Geographers - Ontario Division (CAGONT) 2014 Annual Meeting, October 24-25, 2014. Toronto, Ontario, CANADA.

Student Poster

Competition Referee: Student Poster Competition Referee, Canadian Association of Geographers - Ontario Division (CAGONT) 2014 Annual Meeting, October 24-25, 2014. Toronto, Ontario, CANADA.

Student Poster

Competition Referee: GIScience Study Group, Canadian Association of Geographers (CAG) 2014 Annual Meeting, May 26-30, 2014. St. Catharines, Ontario, CANADA.

Student Poster

Competition Referee: Western Division - Canadian Association of Geographers (WDCAG) 2014 Annual Meeting, March 7-8, 2014. Victoria, British Columbia, CANADA.

Session Chair:

Environmental Geography II - 4:00pm to 5:40pm, Saturday October 26, 2013. Joint Canadian Association of Geographers - Ontario Division (CAGONT) / East Lakes Division of the Association of American Geographers (ELDAAG) 2013 Annual Meeting, October 25-26, 2013. Toledo, Ohio, USA.

Session Chair:

Global Change - 9:30am to 11:00am, Friday July 5, 2013. AGIT 25 Symposium, July 3-5, 2013. Salzburg, AUSTRIA.

Department

Representative:

Ontario Association for Geographic and Environmental Education (OAGEE) Fall Conference, October 19-20, 2012. Kingston, Ontario, CANADA.

Session Chair:

Environment - 8:30am to 10:10am, Saturday September 29, 2012. Prairie Division - Canadian Association of Geographers (PCAG) 2012 Annual Meeting, September 28-30, 2012. Winkler, Manitoba, CANADA.

Session Chair:

Natural Resources Management - 1:00pm to 2:20pm, Saturday March 10, 2012. Western Division - Canadian Association of Geographers (WDCAG) 2012 Annual Meeting, March 8-10, 2012. Kelowna, British Columbia, CANADA.

Student Poster

Competition Referee: Western Division - Canadian Association of Geographers (WDCAG) 2012 Annual Meeting, March 8-10, 2012. Kelowna, British Columbia, CANADA.

Department

Representative:

Ontario Association for Geographic and Environmental Education (OAGEE) Fall Conference, November 11-12, 2011. Aurora, Ontario, CANADA.

Session Chair:

GIS and Geospatial Applications - 8:45am to 10:25am, Saturday October 22, 2011. Canadian Association of Geographers - Ontario Division

(CAGONT) 2011 Annual Meeting, October 21-22, 2011. Orillia, Ontario, CANADA.

Student Paper

Competition Referee: Atlantic Division of the Canadian Association of Geographers (ACAG) Annual Meeting and Conference, October 14-16, 2011. Sackville, New Brunswick, CANADA.

Session Chair: Hydrologische Modellierung - 4:30pm to 6:00pm, Thursday July 8, 2010. AGIT 2010 Conference, July 7-9, 2010. Salzburg, AUSTRIA.

Session Chair: GIScience: Von der Theorie zur Anwendung - 11:30am to 1:00pm, Thursday July 8, 2010. AGIT 2010 Conference, July 7-9, 2010. Salzburg, AUSTRIA.

Session Chair: Advanced Spatial Analysis - 3:00pm to 4:30pm, Wednesday July 7, 2010. Geoinformatics Forum Salzburg - GI_Forum 2010 Conference, July 6-9, 2010. Salzburg, AUSTRIA.

Session Chair: Environmental Modelling - 10:20am to 12:00pm, Tuesday, February 23, 2010. 45th Central Canadian Symposium on Water Quality Research, February 22-23, 2010. Burlington, Ontario, CANADA.

Session Chair: (together with C.H. Marvin) Geospatial Modelling and Analysis of Contaminant Distributions - 8:20am to 10:00am, Tuesday, February 23, 2010. 45th Central Canadian Symposium on Water Quality Research, February 22-23, 2010. Burlington, Ontario, CANADA.

Session Chair: Remote Sensing of Urban Areas - 3:10pm to 4:50pm, Monday, March 23, 2009. 2009 AAG Annual Meeting, March 22-27, 2009. Las Vegas, Nevada, USA.

Session Chair: Biogeography, Environment and Humans I - 9:00am to 10:00am, Sunday October 19, 2008. CAGONT/ELDAAG 2008 Conference, October 17-19, 2008. St. Catharines, Ontario, CANADA.

Session Chair: Geomatics - 3:20pm to 5:20pm, Saturday October 18, 2008. CAGONT/ELDAAG 2008 Conference, October 17-19, 2008. St. Catharines, Ontario, CANADA.

Session Chair: GIS and Remote Sensing - 10:30am to 12:20pm, Saturday October 20, 2007. CAGONT 2007 Conference, October 19-20, 2007. Sudbury, Ontario, CANADA.

Session Chair: Flußsysteme - 2:00pm to 3:30pm, Thursday July 5, 2007. AGIT 2007 Conference, July 4-6, 2007. Salzburg, AUSTRIA.

- Session Chair: Hydrologie - 11:30am to 1:00pm, Thursday July 5, 2007. AGIT 2007 Conference, July 4-6, 2007. Salzburg, AUSTRIA.
- Session Chair: GIS and Spatial Analysis in the Physical Environment (Special CAG and CCA Joint Session) - 10:30am to 12:00pm, Friday June 1, 2007. CAG2007 Conference, May 29-June 2, 2007. Saskatoon, Saskatchewan, CANADA.
- Session Moderator: Naturgefahren - 4:30pm to 6:00pm, Thursday July 6, 2006. AGIT 2006 Conference, July 5-7, 2006. Salzburg, AUSTRIA.
- Session Moderator: Geodatenerfassung - 5:00pm to 6:30pm, Wednesday July 5, 2006. AGIT 2006 Conference, July 5-7, 2006. Salzburg, AUSTRIA.
- Session Moderator: Geodateninfrastrukturen - 3:00pm to 4:30pm, Wednesday July 5, 2006. AGIT 2006 Conference, July 5-7, 2006. Salzburg, AUSTRIA.
- Session Chair: Naturgefahren I - 2:00pm to 3:30pm, Thursday July 7, 2005. AGIT 2005 Conference, July 6-8, 2005. Salzburg, AUSTRIA.
- Session Chair: Nationalparke - 9:30am to 11:00am, Thursday July 7, 2005. AGIT 2005 Conference, July 6-8, 2005. Salzburg, AUSTRIA.
- Session Chair: Urban Climate - 4:00pm to 5:30pm, Tuesday March 15, 2005. ISPRS Joint Conferences 3rd International Symposium Remote Sensing and Data Fusion Over Urban Areas (URBAN 2005) and the 5th International Symposium Remote Sensing of Urban Areas (URS 2005), March 14-16, 2005. Tempe, Arizona, USA.
- Session Moderator: Imagery Processing - 1:30pm to 3:00pm, Tuesday March 30, 2004. GeoTec Event, March 28-31, 2004. Toronto, Ontario, CANADA.
- Session Chair: Limnologie - 11:30am to 1:00pm, Thursday July 3, 2003. AGIT 2003 Conference, July 2-4, 2003. Salzburg, AUSTRIA.
- Session Chair: Urban Geography: Suburban Development - 11:40am to 12:50pm, Friday May 31, 2002. CAG2002 Conference, May 28-June 1, 2002. Toronto, Ontario, CANADA.
- Session Moderator: Imagery Airborne - 11am to 12:30pm, Wednesday April 10, 2002. GIS2002 Conference, April 8-11, 2002. Toronto, Ontario, CANADA.

SIGNIFICANT ADMINISTRATIVE DUTIES (1999 to date)

1. Toronto Metropolitan University (formerly Ryerson University):

- a) Toronto Metropolitan University Faculty Association (TFA) - Services Standing Committee (February 2023-present)
- b) Faculty Course Survey (FCS) Focus Group (March 2019)
- c) Master of Spatial Analysis (MSA) Executive Committee (September 2017-September 2018)
- d) Master of Spatial Analysis (MSA) Program Director Search Committee (March-April 2007, May 2018-June 2018, committee chair May 2018-June 2018)
- e) Ryerson Faculty Association (RFA) - Services Standing Committee (January 2008-May 2012, May 2013-May 2015), Committee Chair (May 2010-May 2012, May 2013-May 2015)
- f) Ryerson Faculty Association (RFA) - Elections Committee (October 2011-October 2012, committee chair January 2012-October 2012)
- g) Ryerson Faculty Association (RFA) - Departmental Representative (September-October 2007 and February 2010-December 2012), Alternate Departmental Representative (November 2007-January 2010, January 2013-August 2013)
- h) Faculty of Arts - Departmental Representative on the Scholarly, Research, and Creative (SRC) activity committee (2006-2007)
- i) Master of Spatial Analysis (MSA) Admissions Committee (2005-2006, 2007-2008, 2008-2009, 2009-2010, and 2010-2011)
- j) Member of the School of Graduate Studies since April 2003
- k) Ryerson Northern Studies Committee (September 1999-November 2013)
- l) Member of the Committee considering the proposed M.A.Sc. and M.Eng in Geomatics Engineering (1999-2001)

2. Department of Geography and Environmental Studies, Toronto Metropolitan University (formerly Ryerson University)

- a) Field Studies Committee (2004-2005, 2006-2011, September-November 2012, and 2015-September 2018, 2021-present; committee chair 2006-2009, 2015-September 2018)
- b) Computing/IT Committee (2001-2005, 2006-2007, 2008-2011, 2013-September 2017, and September 2020-September 2022, committee chair 2002-2005, and 2008-2009)
- c) Department Evaluation Committee (October 2018-September 2019)
- d) Department Hiring Committee (September 2017-September 2019, committee chair September 2017-September 2018)
- e) Department Facebook Page Administrator (February 2018-September 2018)
- f) Search Committee for Geographic Analysis Program Administrator (February 2018-April 2018)
- g) Interim Geographic Analysis Program Director (January 2018-June 2018)
- h) Department Curriculum Committee (January 2018-September 2018)
- i) Department Contract Lecturer Appointment Committee (January 2018-September 2018)
- j) Department Council Chair (September 2017-September 2018)
- k) Master of Spatial Analysis Executive Committee (September 2017-September 2018)
- l) Department Workload Process Committee (September 2016-April 2017)

- m) External Liaison Committee (2012-September 2017), committee chair (2014-September 2017)
- n) Departmental Teaching Standards Committee (November 2010-May 2013)
- o) Website Development Committee (2006-May 2013)
- p) Space Committee (2007)
- q) Webmaster (2002-2007)
- r) Geotechnology Committee (committee chair 2004-2005)
- s) Supercommittee (2002-2003)
- t) Development of Promotional Graphic Material for both the MSA (in 2001) and BA (in 2003) degrees
- u) Master of Ceremonies for the annual Geography and Environmental Studies Awards Night in 2002, 2003, and 2017
- v) Informal review of 14 papers from the Fall 2002 Geo500 Field Camp course
- w) Responses to Academic Appeals - 2002 (3), 2003 (2), 2005 (5)
- x) Volunteer at the Ontario Universities Fair in 2000, 2001, and 2006

3. External

- a) Program Committee and referee for the *GISalzburg23 Symposium*. July 4-6, 2023. Salzburg, AUSTRIA. (February 2023-July2023)
- b) Referee for the *56th Hawaii International Conference on System Sciences (HICSS-56)* (July 2022 to August 2022)
- c) Program Committee and referee for the *GISalzburg22 Symposium*. July 5-7, 2022. Salzburg, AUSTRIA. (February 2022-July 2022)
- d) Departmental Representative to the Canadian Association of Geographers (CAG) and the Association of American Geographers (AAG) (August 2006-September 2013, September 2016-July 2022)
- e) Program Committee and referee for the *Hybrid 33rd Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXXIII), AGIT 2021*. July 5-9, 2021. Salzburg, AUSTRIA. (February 2021-July 2021)
- f) Program Committee and referee for the *Virtual 32nd Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXXII), AGIT 2020*. July 8-10, 2020. Salzburg, AUSTRIA. (February 2020-July 2020)
- g) Past President - Canadian Association of Geographers - Ontario Division (CAGONT) - (October 2019-November 2021)
- h) Program Committee and referee for the *31st Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXXI), AGIT 2019*. July 3-5, 2019. Salzburg, AUSTRIA. (February 2019-July 2019)
- i) President - Canadian Association of Geographers - Ontario Division (CAGONT) - (October 2018-October 2019)
- j) Member of the Executive of the Canadian Association of Geographers (CAG) - (October 2018-October 2019)
- k) Program Committee and referee for the *30th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXX), AGIT 2018*. July 4-6, 2018. Salzburg, AUSTRIA. (February 2018-July 2018)

- l) Past President - Canadian Association of Geographers - Ontario Division (CAGONT) - (October 2017-October 2018)
- m) Program Committee and referee for *the 29th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXIX), AGIT 2017*. July 5-7, 2017. Salzburg, AUSTRIA. (February 2017-July 2017)
- n) President - Canadian Association of Geographers - Ontario Division (CAGONT) - (October 2016-October 2017)
- o) Member of the Executive of the Canadian Association of Geographers (CAG) - (October 2016-October 2017)
- p) Program Committee and referee for *the 28th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXVIII), AGIT 2016*. July 6-8, 2016. Salzburg, AUSTRIA. (February 2016-July 2016)
- q) Past President - Canadian Association of Geographers - Ontario Division (CAGONT) - (October 2015-October 2016)
- r) Program Committee and referee for *the 27th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXVII), AGIT 2015*. July 8-10, 2015. Salzburg, AUSTRIA. (February 2015-July 2015)
- s) Program Committee and referee for *the 26th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXVI), AGIT 2014*. July 2-4, 2014. Salzburg, AUSTRIA. (February 2014-July 2014)
- t) President - Canadian Association of Geographers - Ontario Division (CAGONT) - (October 2013-October 2015)
- u) Member of the Executive of the Canadian Association of Geographers (CAG) - (October 2013-October 2015)
- v) Program Committee for the CAGONT/ELDAAG 2013 Annual Meeting. October 25-26, 2013. Toledo, Ohio, USA. (March 2013-October 2013)
- w) Program Committee and referee for *the 25th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXV), AGIT 2013*. July 3-5, 2013. Salzburg, AUSTRIA. (February 2013-July 2013)
- x) Program Committee and referee for *the 24th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXIV), AGIT 2012*. July 4-6, 2012. Salzburg, AUSTRIA. (February 2012-July 2012)
- y) Referee for *the 2012 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2012*, July 22-27, 2012. Munich, Germany. (December 2011-February 2012)
- z) Program Committee and Website Administrator for *the Canadian Association of Geographers - Ontario Division (CAGONT) 2011 Annual Meeting*. October 21-22, 2011. Orillia, Ontario. (March 2011-October 2011)
- aa) Program Committee and referee for *the 23rd Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXIII), AGIT 2011*. July 6-8, 2011. Salzburg, AUSTRIA. (February 2011-July 2011)
- bb) Referee for *the 2011 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2011*. August 1-5, 2011. Sendai, Japan (moved to July 24-29, 2011, Vancouver, Canada). (January 2011-February 2011)
- cc) Program Committee and referee for *the 22nd Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXII), AGIT 2010*. July 7-9, 2010. Salzburg, AUSTRIA. (February 2010-July 2010)

- dd) Chair of the Conference Program and Organizing Committees and Website Administrator for the *Canadian Association of Geographers - Ontario Division (CAGONT) 2010 Annual Meeting*. October 15-16, 2010. Toronto, Ontario. (January 2010-October 2010)
- ee) Referee for the *2010 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010*, July 25-30, 2010. Honolulu, Hawaii, USA. (January 2010-February 2010)
- ff) Vice President - Canadian Association of Geographers - Ontario Division (CAGONT) - (October 2009-October 2013)
- gg) Program Committee and referee for the *21st Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XXI), AGIT 2009*. July 8-10, 2009. Salzburg, AUSTRIA. (February 2009-July 2009)
- hh) Referee for the *2009 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2009*. July 13-17, 2009. Cape Town, South Africa. (January 2009-March 2009)
- ii) Program Committee and referee for the *20th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XX), AGIT 2008*. July 2-4, 2008. Salzburg, AUSTRIA. (February 2008-July 2008)
- jj) Referee for the *2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008*. July 7-11, 2008. Boston, Massachusetts, USA. (January 2008-March 2008)
- kk) Program Committee and referee for the *19th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XIX), AGIT 2007*. July 4-6, 2007. Salzburg, AUSTRIA. (February 2007-July 2007)
- ll) Program Committee and referee for the *18th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XVIII), AGIT 2006*. July 5-7, 2006. Salzburg, AUSTRIA. (February 2006-July 2006)
- mm) Local Organizing Committee for the *53rd North American Meetings of the Regional Science Association International, 2006*, November 16-18, 2006. Toronto, Ontario. (November 2003-August 2006)
- nn) Program Committee and referee for the *17th Symposium for Applied Geographic Information Processing (Angewandte Geographische Informationsverarbeitung XVII), AGIT 2005*. July 8-10, 2005. Salzburg, AUSTRIA. (February 2005-July 2005)

TEACHING

Student Supervision

<i>Degree</i>	<i>Current</i>	<i>Completed</i>	<i>Total</i>
Environmental Applied Science and Management (EnSciMan) Ph.D.	1	1	2
Master of Spatial Analysis (M.S.A.)	0	34	34
Undergraduate B.A. (formerly B.A.A.)	0	21	21

Supervised Graduate Student Environmental Applied Science and Management (EnSciMan) Ph.D. Dissertations (1)

Danielle Mitchell - completed October 2017 (Ryerson University)

Disseration Title: *Visualizing the Big Three: Geospatial Interpolation of Heavy Metal Sediment Contamination in Lake Erie*

Supervised Graduate Student Master of Spatial Analysis (MSA) Major Research Papers and Theses (34)

Hafsa Hasan - completed September 2023 (part-time) (Toronto Metropolitan University)
Masters Major Research Paper Title: *A Study of Urban Forest and Greenspace Inequality in Mississauga and Brampton Using Remote Sensing and NDVI*

Takoda Kemp – completed September 2022 (Ryerson University)
Masters Thesis Title: *Soil Analysis via Remote Sensing and Artificial Intelligence for Precision Regenerative Agriculture*

Vera Usherovich – completed May 2022 (Ryerson University)
Masters Thesis Title: *Geographic Object Based Image Analysis Change Detection in a Shrinking City: Detroit, Michigan, 2014-2018*

Samuel Emard - completed September 2021 (Ryerson University)
Masters Major Research Paper Title: *Time Series of a Forest Canopy: Detecting Changes using the Visible Atmospherically Resistant Index and a low-cost Drone*

Nicolas Karwowski - completed September 2021 (Ryerson University)
Masters Major Research Paper Title: *Foundations of Burkina Faso's Great Green Wall: Vegetation Growth in the Sahel since 1990*

Scott Mackey - completed September 2017 (Ryerson University)
Masters Major Research Paper Title: *Modeling Photovoltaic Solar Farm Site Suitability using a Multi-Criteria Evaluation in southern Ontario, Canada*

Christine Valancius - completed September 2015 (Ryerson University)
Masters Major Research Paper Title: *Comparing the Cooling Ability of Green Spaces in Suburban and Urban Areas using LST and NDVI*

Amy Buckland - completed September 2014 (Ryerson University)
Masters Major Research Paper Title: *Spatial Analysis of LEED Projects in the Toronto and Vancouver Census Metropolitan Areas from 2001 to 2013*

Danielle Mitchell - completed September 2014 (Ryerson University)
Masters Major Research Paper Title: *Identifying Salinization through Multispectral Band Analysis: Lake Urmia, Iran*

Michael Chambers - completed September 2013 (Ryerson University)
Masters Major Research Paper Title: *Predictive Power of Film Attributes with respect to Audience Demographics*

Cameron Hare - completed September 2013 (Ryerson University)

Masters Major Research Paper Title: *Assessing Ozone and Fine Particulate Matter Concentrations and Trends in Ontario, Canada, 2003 - 2012*

Lisa-Jen Ferrato - completed September 2012 (Ryerson University)

Masters Major Research Paper Title: *Comparing Hyperspectral and Multispectral Imagery for Land Cover Classification of the Lower Don River, Toronto*

John Floroff - completed September 2012 (Ryerson University)

Masters Major Research Paper Title: *Creating a Wildfire Model from Remote Sensing of Boreal Forests in Northern Ontario*

Christian Krnic - completed September 2012 (Ryerson University)

Masters Major Research Paper Title: *Spatial Distribution of Contaminant Concentrations in the St. Marys River*

Tony Wu - completed September 2012 (Ryerson University)

Masters Major Research Paper Title: *Monitoring Land Cover Change in Ontario's Greenbelt Region from 1985 to 2005*

Adrian Gawedzki - completed September 2011 (Ryerson University)

Masters Major Research Paper Title: *Assessing Anthracene and Arsenic Contamination in Buffalo River Sediments*

Amy Kluge - completed September 2011 (Ryerson University)

Masters Major Research Paper Title: *Dieldrin Concentrations in Great Lakes Sediment: Spatial and Temporal Trends*

Grant McCartney - completed September 2011 (Ryerson University)

Masters Major Research Paper Title: *Investigating Forest Disturbance Using Landsat Data in the Nagagamis Central Plateau, Ontario, Canada*

Sangita Mhatre - completed September 2011 (Ryerson University)

Masters Major Research Paper Title: *Remote Sensing of Invasive Species, Phragmites Australis on Georgian Bay Islands National Park Shorelines*

Ezhil Baskaran - completed September 2010 (Ryerson University)

Masters Major Research Paper Title: *Understanding Spatial Patterns of South Asian Commercial Activity in the Toronto Census Metropolitan Area (CMA)*

Daniel Szuba - completed September 2010 (Ryerson University)

Masters Major Research Paper Title: *Comparison of Interpolation Methods for the Spatial Mapping of Polybrominated Diphenyl Ethers in Lake Ontario*

Peter Rodriguez - completed September 2009 (Ryerson University)
Masters Major Research Paper Title: *Assessing the Geographic Distribution of Mercury and Lead in Buffalo River Sediments*

Juan Carlos Molina - completed January 2009 (Ryerson University)
Masters Major Research Paper Title: *Coffee Quality Zonation in the Montecillos Mountain Range, Honduras*

Marie-Claude Archambault - completed September 2008 (Ryerson University)
Masters Major Research Paper Title: *Analysing Sediment Property Trends for Three Coastal Bays in Nova Scotia using Kriging*

Sergio Barrios Jr.- completed September 2008 (Ryerson University)
(co-supervisor Dr. T. Hernandez)
Masters Major Research Paper Title: *Urban Sprawl and Neighbourhood Vitality in Toronto: A GIS and Remote Sensing Analysis*

Chris Harrington - completed September 2006 (part-time) (Ryerson University)
Masters Major Research Paper Title: *GIS Application for Aquatic Barrier Mitigation in the Upper Thames River Watershed*

Daniela MacLeod - completed September 2006 (Ryerson University)
Masters Major Research Paper Title: *A GIS-Kriging Approach and Analysis of Historical Sediment Contamination in Lake Superior*

Paul (Baorong) Du - completed September 2005 (Ryerson University)
Masters Major Research Paper Title: *Urban Change Detection and Analysis in the Greater Toronto Area from 1972 to 2004 Using Remote Sensing and GIS*

Connor Houston - completed September 2005 (Ryerson University)
Masters Major Research Paper Title: *High Cost Neighbourhoods: A Perspective on the Health Care Cost of Unintentional Injuries*

Kevin Finney - completed September 2004 (Ryerson University)
Masters Major Research Paper Title: *Utilizing Pansharpened LANDSAT 7 Imagery to Detect Urban Change in the Vancouver Census Metropolitan Area: 1999-2002*

Mike Harlow - completed September 2003 (Ryerson University)
Masters Major Research Paper Title: *Urban Development Detection within the Upper Thames River Conservation Authority for the Period 1991 - 1999 using Landsat TM and ETM+ data*

Darren Sutton - completed September 2003 (Ryerson University)
Masters Major Research Paper Title: *A GIS-Based Flood Forecasting Model for the Duffins Creek Watershed, Ontario*

Dan Jakubek - completed September 2002 (Ryerson University)

Masters Major Research Paper Title: *Predicting the Contamination between Sites of Sediment Core Measurement in Lake Ontario*

Jacqueline Montain - completed September 2001 (Ryerson University)

Masters Major Research Paper Title: *Integrating Geographic Information Systems and Spatial Analysis into Public Health Applications*

External Ph.D. Dissertation Examiner (2)

Shannon Allen - completed September 2020 (University of Toronto - Scarborough)

Dissertation Title: *Trends in the Frequency of Extreme Temperatures for Canadian Urban Centres from 1971 to 2000*

Mojgan Mirzaei - completed March 2020 (University of Calgary)

Dissertation Title: *Multiscale Spatial and Temporal Modelling of Fine Particulate Matter (PM_{2.5}) from Wildfire Smoke Using Remote Sensing and Statistical Methods*

Graduate Student MSA and EnSciMan Defense Committee Second Reader (38)

Sara Kacurov - completed September 2023 (Toronto Metropolitan University)

Masters Thesis Title: *Effects of 2019 Severe Flooding on Toronto Island Vegetation Communities*

Hannah Burdett - completed May 2020 (Ryerson University)

Masters Thesis Title: *Statistical and Machine Learning Methods for Crop Yield Prediction in the Context of Precision Agriculture*

Cody Connor - completed October 2019 (Ryerson University)

Masters Major Research Paper Title: *Assessing the Effects of the King Street Transit Pilot Project on Residential Traffic Noise Exposures*

Jessie Smith - completed September 2019 (Ryerson University)

Masters Major Research Paper Title: *Evaluating the Effectiveness of Ontario's 2005 Greenbelt Plan at Preserving the Protected Countryside from Urbanization and Non-Renewable Resource Mining*

Brian Truong - completed September 2019 (Ryerson University)

Masters Major Research Paper Title: *Changes to Food Services within Super-Regional Shopping Centres in Toronto*

Sarah Medland - completed September 2019 (Ryerson University)

Masters Major Research Paper Title: *A Multi-Criteria Index for Wetland Reconstruction Site Suitability in Ontario's Mixedwood Plains*

Joseph Arambulo - completed June 2019 (EnSciMan, Ryerson University)

Masters Thesis Title: *Examining the Presence of Aquatic Invasive Species, *Bythotrephes longimanus*, in Inland Lakes across Ontario*

Valerie Bowler - completed September 2017 (EnSciMan, Ryerson University)

Masters Thesis Title: *Spatial Analysis of Two Aquatic Invaders in Adirondack Lakes: A Modelling Approach for Environmental Management*

Nicole Serrafero - completed September 2017 (Ryerson University)

Masters Major Research Paper Title: *High-End Retailers in Canada, Where Next?*

Hysan Yeung - completed September 2017 (Ryerson University)

Masters Major Research Paper Title: *Independent Niche Retail: Board Game Café Location & Classification*

Nicia Moran - completed September 2015 (Ryerson University)

Masters Major Research Paper Title: *Site Selection Using Geographic Information Systems and Multi-Criteria Decision Model*

Maxwell Stiss - completed September 2015 (Ryerson University)

Masters Major Research Paper Title: *Ground Level Retail and Mid-Rise Development Trends along the 'Avenues' of the City of Toronto from 2010-2014*

Kiyomi French - completed July 2015 (Ryerson University)

Masters Major Research Paper Title: *Analysis of Distribution Centre Locations for a Major Furniture Retailer in Canada*

Colleen Middleton - completed September 2014 (Ryerson University)

Masters Major Research Paper Title: *Change Detection and Modeling of Perennial Snow Packs in Cape Bounty, Melville Island, Nunavut*

Diana Whitcomb - completed September 2014 (Ryerson University)

Masters Major Research Paper Title: *Designing the Geo-Infographic*

Julie Lacalamita - completed September 2013 (Ryerson University)

Masters Major Research Paper Title: *An Analysis of Online and Offline Shopping Patterns in Urban and Suburban Regions of the Greater Toronto Area*

Scott Morrison - completed September 2012 (Ryerson University)

Masters Major Research Paper Title: *Banking on Success: Using Geomarketing to Evaluate the Distribution and Response to Financial Marketing*

Michael Wilson - completed September 2012 (Ryerson University)

Masters Major Research Paper Title: *Underground Thermal Energy Storage Site Selection in the Greater Toronto Area*

Stephanie Murphy - completed October 2011 (Ryerson University)

Masters Major Research Paper Title: *Identifying and Quantifying the Change of Perennial Snowpack in the Canadian High Arctic*

Kasia Kosticin - completed September 2011 (Ryerson University)

Masters Major Research Paper Title: *Ethnospending: A look into ethnic spending profiles across the Toronto CMA*

Matthew Cole - completed January 2011 (Ryerson University)

Masters Major Research Paper Title: *Learning from Losses: A Framework for the Analysis and Beneficial Utilization of Former Newspaper Subscriber Data*

Joshua Kitz - completed January 2011 (Ryerson University)

Masters Major Research Paper Title: *Specialty Independent Retail: Hobby Shop Classification and Location*

Joseph Aversa - completed September 2010 (Ryerson University)

Masters Major Research Paper Title: *An Examination of the Location Preferences of Wal-Mart and Wal-Mart Supercentres in the Greater Toronto Area*

Daniel Greco - completed September 2010 (Ryerson University)

Masters Major Research Paper Title: *A Comparative Analysis of Selected Wal-Marts in the GTA: Neighbourhood Impacts*

Anna Kogan - completed September 2010 (Ryerson University)

Masters Major Research Paper Title: *Food Deserts and Income in the Greater Toronto Area: A Spatial Correlation Analysis*

Katharine Masun - completed September 2010 (Ryerson University)

Masters Major Research Paper Title: *Lithological Discrimination using Hyperion and Landsat Thematic Mapper Data: A Case Study at Devon Island, Nunavut, Canada*

Rita Nnabuihe - completed September 2010 (Ryerson University)

Masters Major Research Paper Title: *Evaluating bank branch location: A case study on Puerto Rico*

Carolina Molina Segura - completed January 2009 (Ryerson University)

Masters Major Research Paper Title: *Mapping Hurricane Damage in an Urban Forest Using Remote Sensing Techniques: A Case Study of Point Pleasant Park, Halifax*

Gustavo Gomez - completed September 2008 (Ryerson University)

Masters Major Research Paper Title: *Assessment of a Forest Disturbance Algorithm using Optical Remote Sensing for the Western United States between 1990 and 2000*

Mark Holmes - completed September 2008 (Ryerson University)

Masters Major Research Paper Title: *Geographic Information System Implementation as a Decision Support Tool for the Town of Bradford West Gwillimbury*

Kamal Paudel - completed September 2008 (Ryerson University)

Masters Major Research Paper Title: *Urban Park Soil Restoration: Geostatistical Analysis of a Naturalization Strategy for Kew Gardens Park, Toronto*

Harold Morrison - completed January 2008 (Ryerson University)

Masters Major Research Paper Title: *Land Cover Distribution and Change in Toronto, Ontario, Canada from 1985-2005*

Brahma Toleti - completed January 2008 (Ryerson University)

Masters Major Research Paper Title: *Urban Forest Soil Characteristics: A Geostatistical Analysis of Allan Gardens Park, Toronto, Canada*

Colin Squirrell - completed September 2007 (Ryerson University)

Masters Major Research Paper Title: *Landscape extent response of Adirondack forest to the 1998 ice storm*

Jo Ashley - completed September 2006 (University of Toronto)

Masters Major Research Paper Title: *Solar Panel Roof Installation Potential for Southern Mississauga Using Remote Sensing and GIS*

Aaron Heppleston - completed September 2005 (Ryerson University)

Masters Major Research Paper Title: *Spatial Relations and Geographically Weighted Averaging in Multicriteria Decision-Making: A Residential Real Estate Case Study*

Sandra Kulon - completed January 2005 (Ryerson University)

Masters Major Research Paper Title: *Investigating the Spatial Dependence of Mosquito Habitat and West Nile Virus Activity in the City of Toronto*

Jillian Kingston - completed September 2004 (University of Toronto)

Masters Major Research Paper Title: *The Impact of Spatial Autocorrelation on Confidence Intervals in Group (Cluster) Sampling for Accuracy Assessment*

Graduate Courses Taught

SA8922: Remote Sensing and Spatial Data, Toronto Metropolitan University (formerly Ryerson University), Master of Spatial Analysis (MSA) program

SA8905: Cartography and Geovisualization, Ryerson University, Master of Spatial Analysis (MSA) program

SA8902/MSA9020: Database Management and Spatial Technologies, Ryerson University/University of Toronto, Master of Spatial Analysis (MSA) program

SA8922/MSA9220: Remote Sensing and Spatial Data, Ryerson University/University of Toronto, Master of Spatial Analysis (MSA) program

SA8902/MSA9020: Geographic Spatial Database Management and Spatial Technologies, Ryerson University/University of Toronto, Master of Spatial Analysis (MSA) program

Undergraduate Courses Taught

GEO012: Applied Physical Geography
GEO110: The Physical Environment
GEO212: Terrestrial Systems in Physical Geography
GEO500: Field Camp
GEO542: Introduction to Remote Sensing (formerly Geo624)
GEO614: Geographic Information Systems (GIS)
GEO624: Introduction to Remote Sensing
GEO642: Advanced Remote Sensing and GIS (formerly Geo824)
GEO702: Technology and the Contemporary Environment
GEO773: Field Studies
GEO811: Global Environmental Issues
GEO814: GIS in Decision Support - Advanced Applications
GEO824: Advanced Applications in Remote Sensing and GIS

Additional supervision in:

GEO715: Research Paper Proposal
GEO772: Research Paper Proposal (formerly Geo715)
GEO815: Research Paper

Continuing Education (CE) Course Taught

CODG135: Digital Image Processing and Applications

External Seminar Held

BGeo-5.06: Grundlagen der Fernerkundung - Department of Geoinformation, Carinthia University of Applied Sciences

External Distance Education Course Taught

Module 3 - Data Sources and Data Acquisition - UNIGIS International Masters of Geographic Information Science Curriculum