

GRANT D. MCKENZIE

Curriculum Vitae

September 12, 2019

Department of Geography · McGill University · Montréal, Canada

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Citizenships: American & Canadian

APPOINTMENTS

- 2018 **McGill University, Montréal** *Canada*
Assistant Professor
Department of Geography
Leading the [Platial Analysis Lab](#)
- 2016 **The University of Maryland, College Park** *USA*
Assistant Professor
Department of Geographical Sciences
Center for Geospatial Information Science
Human Computer Interaction Lab affiliate
- 2015 **The University of California, Santa Barbara** *USA*
Postdoctoral Researcher
Department of Geography

EDUCATION

- 2015 **The University of California, Santa Barbara** *USA*
Department of Geography
Doctor of Philosophy
Supplemental emphasis in Information Technology & Society (CITS)
- 2007 **The University of Melbourne** *Australia*
Department of Geomatic Engineering
Master of Applied Science (with Honors)
- 2004 **The British Columbia Institute of Technology** *Canada*
Geographic Information Systems
Technical Diploma (Advanced)
- 2002 **The University of British Columbia** *Canada*
Department of Geography
Bachelor of Arts

PUBLICATIONS

Refereed Journal Articles

- 2019 **McKenzie, G.** (Accepted) Urban mobility in the sharing economy: A spatiotemporal comparison of shared mobility services. *Computers, Environment and Urban Systems*. Elsevier.
- 2019 **McKenzie, G.** Spatiotemporal comparative analysis of scooter-share and bike-share usage patterns in Washington, D.C.. *Journal of Transport Geography*. 78. 19-28. Elsevier.
- 2019 Regalia, B., Janowicz, K., **McKenzie, G.** Computing and Querying Topological Relations in Linked Geographic Data. *Transactions in GIS*. 23(3). 601–619. Wiley Press.
- 2019 **McKenzie, G.**, Slind, R., A user-generated data based approach to enhancing location prediction of financial services in sub-Saharan Africa. *Journal of Applied Geography*. 105. 25-36. Elsevier.
- 2018 **McKenzie, G.**, Liu, Z., Hu, Y., Lee, M. Identifying urban neighborhood names through user-contributed online property listings. *ISPRS International Journal of Geo-Information*. 7(10) 388. MDPI.
- 2018 Fu, C., **McKenzie, G.**, Frias-Martinez, V., Stewart, K. Identifying spatiotemporal urban activities through linguistic signatures. *Computers, Environment and Urban Systems*. 72(1) 25–37. Elsevier.
- 2018 **McKenzie, G.**, Adams, B. A data-driven approach to exploring similarities of tourist attractions through online reviews. *Journal of Location Based Services*. 12(2) 94–118. Taylor & Francis.
- 2018 Hu, Y., Mao, H., **McKenzie, G.** (Ahead of print) A Natural Language Processing and Geospatial Clustering Framework for Harvesting Local Place Names from Geotagged Housing Advertisements. *International Journal of Geographical Information Science*. Taylor & Francis.
- 2018 Adams, B., **McKenzie, G.** Crowdsourcing the Character of a Place: Character-Level Convolutional Networks for Multilingual Geographic Text Classification. *Transactions in GIS*. 22(2) 394–408. Wiley Press.
- 2017 **McKenzie, G.**, Janowicz, K. ISED: Constructing a high-resolution elevation road dataset from massive, low-quality in-situ observations derived from geosocial fitness tracking data. *PLoS ONE* 12(10): e0186474
- 2017 Keßler, C., **McKenzie, G.** A Geoprivacy Manifesto. *Transactions in GIS*. 22(1) 3–19. Wiley Press.
- 2017 Gao, S., Janowicz, K., Montello, D., Hu, Y., Yang, J., **McKenzie, G.**, Ju, Y., Gong, Li., Adams, B., Yan, B. A Data-Synthesis-Driven Method for Detecting and Extracting Vague Cognitive Regions. *International Journal of Geographical Information Science*. 31(6) 1245–1271 Taylor & Francis.
- 2016 **McKenzie, G.**, Hegarty, M., Barrett, T., Goodchild, M. Assessing the Effectiveness of Different Visualizations for Judgments of Positional Uncertainty. *International Journal of Geographical Information Science*. 30(2) 221–239. Taylor & Francis.

- 2016 Regalia, B., **McKenzie, G.**, Gao, S., Janowicz, K. Crowdsensing Smart Ambient Environments and Services. *Transactions in GIS*. 20(3) 382–298. Wiley Press.
- 2016 Zhu, R., Hu, Y., Janowicz, K., **McKenzie, G.** Spatial Signatures for Geographic Feature Types: Examining Gazetteer Ontologies using Spatial Statistics. *Transactions in GIS*. 20(3) 333–355. Wiley Press.
- 2016 **McKenzie, G.**, Klippel, A., The Interaction of Landmarks and Map Alignment in You-Are-Here Maps. *The Cartographic Journal*. 53(1) 43-54. Maney Press.
- 2015 **McKenzie, G.**, Janowicz, K., Gao, S., Gong, L. How Where Is When? On the Regional Variability and Resolution of Geosocial Temporal Signatures for Points Of Interest. *Computers, Environment and Urban Systems (Special issue on New insights gained from location-based social media data)*. 54(1). 336–346. Elsevier.
- 2015 **McKenzie, G.**, Janowicz, K. *Where is also about time: A location-distortion model to improve reverse geocoding using behavior-driven temporal signatures.* *Computers, Environment and Urban Systems*. 54(1). 1–13. Elsevier.
- 2015 **McKenzie, G.**, Janowicz, K., Gao, S., Yang, J., .Hu, Y. POI Pulse: A Multi-Granular, Semantic Signatures-Based Information Observatory for the Interactive Visualization of Big Geosocial Data. *Cartographica: The International Journal for Geographic Information and Geovisualization*. 50(2) 71–85. University of Toronto Press.
- 2014 **McKenzie, G.**, Janowicz, K., Adams, B. A Weighted Multi-Attribute Method for Matching User-Generated Points of Interest. *Cartography and Geographic Information Science*. 41(2) 125–137. Taylor & Francis.

Refereed Conference Proceedings

- 2017 Janowicz, K., **McKenzie, G.** How “Alternative” are Alternative Facts? Measuring Statement Coherence via Spatial Analysis. *Vision Paper in the Proceedings of the 25th International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2017)*. (November 7-10, Redondo Beach, CA, USA)
- 2017 **McKenzie, G.**, Adams, B. Juxtaposing thematic regions derived from spatial and platial user-generated content. *Proceedings of the 13th International Conference on Spatial Information Theory (COSIT '17)*. (September 4-8, L'Aquila, Italy)
- 2017 **McKenzie, G.**, Janowicz, K. The Effect of Regional Variation and Resolution on Geosocial Thematic Signatures for Points of Interest. *Proceedings of the 2017 AGILE Conference* (May 9-12, Wageningen, Netherlands)
- 2016 Ju, Y., Adams, B., Janowicz, K., Hu, Y., Yan, B., **McKenzie, G.** Things and Strings: Improving Place Name Disambiguation from Short Texts by Combining Entity Co-Occurrence with Topic Modeling. *The 20th International Conference on Knowledge Engineering and Knowledge Management* (November 19-23, Bologna, Italy)
- 2016 Janowicz, K. , Hu, Y., **McKenzie, G.**, Gao, S., Regalia, B., Mai, G., Zhu, R., Adams, B., and Taylor, K. Moon Landing or Safari? A Study of Systematic Errors and their Causes in Geographic Linked Data. *The 9th International Conference on Geographic Information Science (GIScience '16)* (September 27-30, Montreal, Canada)

- 2016 **McKenzie, G.**, Janowicz, K., Seidl, D. [Geo-privacy beyond coordinates](#). In *Proceedings of the 18th AGILE Conference on Geographic Information Science (AGILE '16)* (June 14-17, Helsinki, Finland)
- 2015 Adams, B., **McKenzie, G.**, Gahegan, M. [Frankenplace: Interactive thematic mapping for ad hoc exploratory search](#). *Proceedings of the 24th International World Wide Web Conference (WWW 2015)*. 12–22. (May 18-22, Florence, Italy)
- 2014 Savage, S. Forbes, A., Toxtli, C., **McKenzie, G.**, Desai, S. M., Hollerer, T. [Visual Analysis of Targeted Audiences](#). *The 11th International Conference on the Design of Cooperative Systems* (May 27-30, Nice, France)
- 2013 Gau, S., Hu, Y., Janowicz, K., **McKenzie, G.** [A Spatiotemporal Scientometrics Framework for Exploring the Citation Impact of Publications and Scientists](#). *Proceedings of The 21st International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL '15)*, 204–213 (November 5-8, Orlando, FL)
- 2013 **McKenzie, G.**, Janowicz, K., Adams, B. [Weighted Multi-Attribute Matching of User-Generated Points of Interest](#). *Proceedings of The 21st International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL '15) (Short Paper)*, (November 5-8, Orlando, FL)
- 2013 Hu, Y., Janowicz, K., **McKenzie, G.**, Sengupta, K., Hitzler, P. [A Linked Data-driven Semantically-enabled Journal Portal for Scientometrics](#). *The 12th International Semantic Web Conference (ISWC '13)* 114–129. (October 21-25, Sydney, Australia)
- 2013 **McKenzie, G.**, Adams, B., Janowicz, K. [A Thematic Approach to User Similarity Built on Geosocial Check-ins](#). In *Proceedings of the 16th AGILE Conference on Geographic Information Science (AGILE '13)* 39–54 (May 14-17, Leuven, Belgium)

Refereed Book Chapters

- 2020 **McKenzie, G.**, Baez, C. (In preparation) [Dockless around the world: Regional variability in shared micromobility usage](#). In: J. Corcoran and T. Sigler (Eds.), *The Modern Guide the Urban Sharing Economy*. Edward Elgar Publishing.
- 2019 Janowicz., K, **McKenzie, G.**, Hu, Y., Zhu, R., and Gao, S. [Using Semantic Signatures for Social Sensing in Urban Environments](#). In: C. Antoniou, L. Dimitriou, F. Pereira (Eds.), *Mobility Patterns, Big Data and Transport Analytics: Tools and Applications for Modeling*. pp 31-54. Elsevier
- 2012 Adams, B., **McKenzie, G.** [Inferring Thematic Places from Spatially Referenced Natural Language Descriptions](#). In: D. Sui, S. Elwood, and M. Goodchild (Eds.), *Crowdsourcing Geographic Knowledge*, pp 201-221. Springer

Refereed Extended Abstracts, Short Papers & Demonstration Papers

- 2018 **McKenzie, G.** [Docked vs. Dockless Bike-sharing: Contrasting Spatiotemporal Patterns](#). *Proceedings of the 10th International Conference on Geographic Information Science (GI-Science '18)*. (August 28-31, Melbourne, Australia)
[Best Short Paper Nomination]

- 2018 **McKenzie, G.**, Janowicz, K. [OpenPOI: An Open Place of Interest Platform](#). *Proceedings of the 10th International Conference on Geographic Information Science (GIScience '18)*. (August 28-31, Melbourne, Australia)
- 2017 Sinha, G., Arundel, S., Stewart, K., Mark, D., Hahmann, T., Romero, B., Sorokine, A., Usery, L., **McKenzie, G.** [A reference landform ontology for automated delineation of depression landforms from DEMs](#). *Conference on Spatial Information Theory (poster session)*. (September 4-8, L'Aquila, Italy)
- 2017 Lee, M., **McKenzie, G.**, Aghi, R. [Exploratory cluster analysis of urban mobility patterns to identify neighborhood boundaries](#). *International Symposium on Location-Based Social Media Data and Tracking Data*. (July 1-2, Washington, D.C.)
- 2017 Hu, Y., Mao, H., **McKenzie, G.** [A NLP and Geospatial Workflow for Harvesting Local Place Names from Geotagged Social Web](#). *International Symposium on Location-Based Social Media Data and Tracking Data*. (July 1-2, Washington, D.C.)
- 2017 Abeyta, A., Flanagan, A., **McKenzie, G.** [Exploring the credibility of online information: A proposed framework for understanding experiential credibility](#). *The 62nd Annual Conference of the International Communication Association (ICA '17)*. (May 25-29, San Diego, CA, USA)
- 2016 **McKenzie, G.**, Baez, C. [Uber vs. Taxis: Event detection and differentiation in New York City](#). *Geographic Information Science (GIScience '16)*. (September 27-30, Montreal, Canada)
- 2015 **McKenzie, G.** [The pretense of residential privacy in geosocial networking data](#). *International Conference on Location-Based Social Media Data*. (March 13-14, Athens, GA)
- 2015 Gong, L., Gao, S., **McKenzie, G.** [POI Type Matching based on Culturally Different Datasets](#). *International Conference on Location-Based Social Media Data*. (March 13-14, Athens, GA)
- 2014 **McKenzie, G.**, Janowicz, K. [Coerced Geographic Information: The not-so-voluntary side of user-generated geo-content](#). *Extended Abstracts of the 8th International Conference on Geographic Information Science (GIScience '14)*, Vienna, Austria.
- 2014 Gao, S., Yang, J-A., Yan, B., Hu, Y., Janowicz, K., **McKenzie, G.** [Detecting Origin-Destination Mobility Flows From Geotagged Tweets in Greater Los Angeles Area](#). *Extended Abstracts of the 8th International Conference on Geographic Information Science (GIScience '14)*, Vienna, Austria.
- 2013 **McKenzie, G.**, Janowicz, K., Hu, Y., Sengupta, K., Hitzler, P. [Linked Scientometrics: Designing Interactive Scientometrics with Linked Data and Semantic Web Reasoning](#). *The 12th International Semantic Web Conference (ISWC '13)* (Demonstration Paper) Sydney, Australia
- 2012 Adams, B. and **McKenzie, G.** [Frankenplace: An Application for Similarity-Based Place Search](#). *The 6th International AAAI Conference on Weblogs and Social Media (ICWSM)* (Demonstration Paper) (June 4-7, Dublin, Ireland) AAAI Press
- 2012 **McKenzie, G.** and Raubal, M. [Ground-truthing spatial activities through online social networking data](#). *Extended Abstracts of the 7th International Conference on Geographic Information Science (GIScience '12)* Columbus, OH.

- 2012 Hu, Y., Li, W., Janowicz, K., Deutsch, K., **McKenzie, G.**, Goulias, K. Using spatial-temporal signatures to infer human activities from personal trajectories on location-enabled mobile devices. *Extended Abstracts of the 7th International Conference on Geographic Information Science (GIScience '12)*, Columbus, OH.
- 2011 **McKenzie, G.**, Raubal, M. Adding social constraints to location based services. *Extended Abstracts of the 8th Symposium on Location-Based Services*. (November 21-23, Vienna, Austria)

Refereed Workshop Proceedings

- 2019 Zhu, R., **McKenzie, G.**, Janowicz, K. Are Streets Indicative of Place Types? *GEOgraphical and CULTural aspects of Geo-data: Issues and Solutions (GeoCultGIS) workshop* in conjunction with the 22nd AGILE Conference on Geo-information Science (AGILE 2019). (June 17, 2019, Limassol, Cyprus)
- 2018 Mai, G., Janowicz, K., Hu, Y., Gao, S., Zhu, R., Yan, B., **McKenzie, G.**, Uppal, A., Regalia, B. Collections of Points of Interest: How to Name Them and Why it Matters. *Spatial big data and machine learning in GIScience Workshop* in conjunction with the 10th International Conference on Geographic Information Science (GIScience '18). (August 28, Melbourne, Australia)
- 2017 **McKenzie, G.**, Hu, Y. The "Nearby" Exaggeration in Real Estate. *Cognitive Scales of Spatial Information (CoSSI 2017) in conjunction with the 13th International Conference on Spatial Information Theory (COSIT '17)*. (Sept. 4, 2017, L'Aquila, Italy)
- 2017 Regalia, B., Janowicz, K., Hu, Y., **McKenzie, G.** Revisiting the Representation of and Need for Raw Geometries on the Linked Data Web. *Linked Data on the Web (LDOW 2017) in conjunction with the 26th International World Wide Web Conference (WWW '17)*. (April 3, 2017, Perth, Australia)
- 2016 Mai, G., Janowicz, K., Hu, Y., **McKenzie, G.** A Linked Data Driven Visual Interface for the Multi-Perspective Exploration of Data Across Repositories. *Visualization and Interaction for Ontologies and Linked Data (VOILA 2016)* in conjunction with the International Semantic Web Conference 2016. (October 16, Kobe, Japan)
- 2015 **McKenzie, G.**, Adams, B., Janowicz, K. Of Oxen and Birds: Is Yik Yak a useful new data source in the geosocial zoo or just another Twitter? *The 8th ACM SIGSPATIAL International Workshop on Location-Based Social Networks (LBSN 2015)* (In conjunction with the 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2015)), (November 3, 2015, Seattle, WA, USA)
- 2015 **McKenzie, G.**, Janowicz, K. Information Observatories: What Are They Good For? *Proceedings of Workshop on Geographic Information Observatories* (In conjunction with the Twelfth Conference on Spatial Information Theory (COSIT '15)), (October 12, 2015, Santa Fe, New Mexico, USA)
- 2015 Janowicz, K., Kauppinen, T., Schade, S., Ballatore, A., **McKenzie, G.** Contextual Information: Lenses for Observing the Data Universe. *Proceedings of Workshop on Geographic Information Observatories* (In conjunction with the Twelfth Conference on Spatial Information Theory (COSIT '15)), (October 12, 2015, Santa Fe, New Mexico, USA)

- 2015 Hu, Y., **McKenzie, G.**, Janowicz, K., Gao, S. Mining Human-Place Interaction Patterns from Location-Based Social Networks to Enrich Place Categorization Systems. *Proceedings of Workshop on Cognitive Engineering for Spatial Information Processes* (In conjunction with the Twelfth Conference on Spatial Information Theory (COSIT '15)), (October 12, 2015, Santa Fe, New Mexico, USA)
- 2014 Janowicz, K., Adams, B., **McKenzie, G.**, Kauppinen, T. Towards Geographic Information Observatories. *Proceedings of Workshop on Geographic Information Observatories at the Eight International Conference on Geographic Information Science (GIO @ GIScience '14)*, (September 23, Vienna, Austria)
- 2014 Hu, Y., **McKenzie, G.**, Yang, J., Gao, S., Abdalla, A., Janowicz, K. A Linked-Data-Driven Web Portal for Learning Analytics: Data Enrichment, Interactive Visualization, and Knowledge Discovery. *LAK Data Challenge Workshop at The 4th International Conference on Learning Analytics and Knowledge (LAK 2014)*, (March 24, Indianapolis, IN)
- 2013 Gao, S., Janowicz, K., **McKenzie, G.**, Li, L. Towards Platial Joins and Buffers in Place-Based GIS. *The First International Workshop on Computational Models of Place (CoMP) at the The 21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, (November 5-8, Orlando, FL)
- 2013 **McKenzie, G.**, Barrett, T., Hegarty, M., Goodchild, M., Thompson, W. Assessing the Effectiveness of Visualizations for Accurate Judgements of Geospatial Uncertainty. *Visually-Supported Reasoning with Uncertainty workshop at The 11th International Conference on Spatial Information Theory (COSIT '13)* (September 2, Scarborough, UK)
- 2013 **McKenzie, G.**, Deutsch, K., Raubal, M. What, When and Where: The real-world activities that contribute to online social networking posts. *Action and Interaction in Volunteered Geographic Information (ACTIVITY) Workshop at The 16th AGILE Conference on Geographic Information Science (AGILE '13)* (May 14-17, Leuven, Belgium)
- 2011 **McKenzie, G.** Gamification and Location-based Services. *Cognitive Engineering for Mobile GIS Workshop at the 15th International Conference on Spatial Information Theory (COSIT '11)* (September 12-16, Belfast, ME)

Non-refereed Publications & Magazine Articles

- 2017 Liu, Z., **McKenzie, G.** Identifying Spatiotemporal Activity Patterns in Beijing Based on Geosocial Microblogs. *Center for Geospatial Information Science Inauguration* (Nov. 1, College Park, MD)
- 2017 Lee, M., Aghi, R., **McKenzie, G.** Toward Identifying Neighborhoods: Activity-based Clustering Analyses. *Human Computer Interaction Symposium* (May 25, College Park, MD)
- 2014 **McKenzie, G.**, Janowicz, K. Activities in a New City: Itinerary Recommendation Based on User Similarity. *Spatial Knowledge and Information (SKI) - Canada* (Feb 7-9, Banff, AB)
- 2013 Barrett, T., **McKenzie, G.**, Hegarty, M., Thompson W., Goodchild, M. Understanding the "Blue Dot" in smartphone displays. *spatial@ucsb.local13 Poster Session*, Santa Barbara, CA.

- 2012 Deutsch, K., **McKenzie, G.**, Hu, Y., Janowicz, J., Li, W., and Goulias, K. [Examining the Use of Smartphones and Data Quality in Data Collection for Travel Behavior Research](#). *Proceedings of the International Association of Travel Behavior Research*, Toronto, ON.
- 2011 **McKenzie, G.** [Determining Social Constraints in Time Geography through Online Social Networking](#). *The 15th International Conference on Spatial Information Theory 2011 (COSIT '11)* - Doctoral Colloquium. (September 12-16, Belfast, ME)
- 2011 Deutsch, K., **McKenzie, G.**, Stevenson, D., Dara-Abrams, D., and Goulias, K. [Integrating GPS and Smart Phone Technologies for Behavioral Data Collection](#). *Eurogeo: The meeting of the Association of European Geographers*. (June 2-4, Athens, Greece)
- 2008 Smith, E., **McKenzie, G.**, Duckham, M. [The only game in town](#). *Position Magazine* 33 pp 51-54

Competitions & Demonstrations

- 2014 Hu, Y., **McKenzie, G.**, Yang, J., Gao, S., Abdalla, A., Janowicz, K. [A Linked-Data-Driven Web Portal for Learning Analytics: Data Enrichment, Interactive Visualization, and Knowledge Discovery](#). *LAK Data Challenge: Linked Data for the Learning Analytics & Education Data Mining Community*, Indianapolis, IN. - **Awarded Second Prize**
- 2012 Hu, Y., **McKenzie, G.**, Gao, S. [Citation Map: Visualization the Spread of Scientific Ideas through Space and Time](#). *Robert Raskin Mashup Mapping competition at The Association of American Geographers Annual Meeting 2012*, Los Angeles, CA - **Awarded Second Prize**

Doctoral Dissertation

- 2015 **McKenzie, G.** [A Temporal Approach to Defining Place Types based on User-contributed Geosocial data](#). *University of California, Santa Barbara, USA*.

Master's Thesis

- 2007 **McKenzie, G.** [Exploring the Influence of Landmark Presence and Map Alignment on Wayfinding Performance Using Virtual Environment Modeling](#). *University of Melbourne, Australia*.

GRANTS & AWARDS

- 2019 Insight Discovery Grant - Social Sciences and Humanities Research Council of Canada – PI
Scooter-pocalypse: Assessing the impact of electric scooter-sharing on bike-sharing services
(2 years of funding)
- 2019 Insight Grant - Social Sciences and Humanities Research Council of Canada – Co-I
Cities, Short-term Rentals and the Sharing Economy: Housing Impacts, Social Dynamics, and Policy Options
(4 years of funding)
- 2019 Discovery Grant - Natural Sciences and Engineering Research Council of Canada – PI
Including additional Early Career Researcher Launch Supplement Award

Platial Science: A multi-dimensional data signatures approach to modeling Place
(5 years of funding)

2017 Dean's Research Initiative - University of Maryland – Co-PI
The emotional consequences of time use, space, and place

2016 Knight Prototype Fund: Arts & Technology - Knight Foundation – Co-PI
Pteraform thematic search project

2015 Grand Challenge Exploration Award - Bill & Melinda Gates Foundation – PI
A social media data-driven platform for informed data collection

2015 Chancellor's Coordinating Committee on Isla Vista - UC Santa Barbara – Co-PI
Gauchosafe mobile safety application

2015 Spark Ideas Challenge - The University of Auckland Entrepreneurship Programme – Co-PI
Simiary: Frankenplace thematic search

TEACHING & ADVISING

Courses

2019 Introduction to Programming for the Spatial Sciences	(Geog 407 - McGill)
2019 Socio-economic Applications of GIS	(Geog 307 - McGill)
2018 Introductory Geo-Information Science	(Geog 201 - McGill)
2018 Introduction to Computer Programming for Geographers	(Geog 376 - UMD)
2017 Introduction to Methods of Geospatial Intelligence and Analysis	(Geog 170 - UMD)
2017 Introduction to Computer Programming for Geographers	(Geog 376 - UMD)
2015 Analytical and Computer Cartography	(Geog 128 - UCSB)
2013 Introduction to Geographic Information Systems	(Geog 176A - UCSB)

PhD Committee Chair

Current Hongyu Zhang - Geography, McGill University

Current Mikael Brunila - Geography/Urban Planning, McGill University [Co-chair]

2018 Zheng Liu - Geographical Sciences, University of Maryland [Advised first year]

PhD Committee Member

Current Penny Beames - Geography, McGill University [Hydrology]

Current Qiao Zhao - Geography, McGill University [Transportation]

Current Qianru Wang - Geography, McGill University [Geomorphology]

2019 Lingzi Hong - School of Information Studies, University of Maryland [Information dispersion]

2019 Myeong Lee - School of Information Studies, University of Maryland [Information deserts]

2019 Yanjia Cao - Geographical Sciences, University of Maryland [Health Geography]

2018 Cheng Fu - Geographical Sciences, University of Maryland [City similarity]

2018 Matt Kuniholm - Geographical Sciences, University of Maryland [Geodesign]

Master's Committee Member

Current Kathryn Elmer - Geography, McGill University [Remote Sensing]

Internal Examiner

2019 Genevieve Reid - Department of Geography, McGill University [First nations ontologies]

2018 Camille O.Dallaire - Department of Geography, McGill University [Hydrology]

Undergraduate Honors Advisor

2018 Kevin Greco - National Consortium for the Study of Terrorism and Responses to Terrorism (START), University of Maryland [Transportation]

Undergraduate Independent Study / Internship Students

Current Maria Gorenflo - Environmental factors & health Independent Study

Current Morgan Guttman - Platiotemporal similarity project Research Assistant

2019 Jeremy Steele - Scooter-pocalypse project Independent Study

ACADEMIC SERVICE & PROFESSIONAL ACTIVITIES

Invited Talks

2019 Local dimensions: Towards Platial data analytics. *Keynote at the 3rd ACM SIGSPATIAL International Workshop on Analytics for Local Events and News (LENS 2019)*. Chicago, Illinois.

2019 Shared Mobility Services: The When and Where of Scooter-sharing and eBike-sharing Services. *Urban Planning Department, City of Montreal*.

2019 Scooter-pocalypse: The When, Where, and Why of Scooter-sharing Services. *ThinkSpatial Seminar Series* (Center for Spatial Studies). University of California, Santa Barbara.

2019 Platial Dynamics: Activity exploration through digital exhaust. *Social Statistics & Population Dynamics Seminar Series* (Center on Population Dynamics). McGill University.

2018 Platial Analytics: Using digital exhaust to explore human activities. *Urban Sustainability and Population Health: Turning Data into Insights* (Canadian Institute of Health Research Meeting). McGill University.

2018 NAS Geographical Sciences Committee Meeting (Discussant). *National Academies of Science, Washington, D.C.*

2018 Space, Place, and the Fourth Paradigm of Science. *GIS Day Keynote*. McGill University Libraries, Montreal.

- 2018 Big Data Interdisciplinary Dialog Series (Presenter & Panelist) *University of Maryland Libraries*.
- 2017 Geo-privacy beyond coordinates: A place-based signatures approach to geolocation. *RAND Corporation*. Arlington, Virginia.
- 2017 Spatial@UCSB Series *Center for Spatial Studies, University of California, Santa Barbara*.
- 2017 Open Geospatial Technology session (Panelist) at the *Association of American Geographers Meeting*.
- 2017 STEAM Salon Lecture Series, *University of Maryland Libraries*.
- 2017 Computational Linguistics and Information Processing Laboratory Lecture Series in the *Department of Computer Science, University of Maryland*.
- 2016 Human Computer Interaction Lab Lecture Series in the *School of Information Studies, University of Maryland*.
- 2015 Talk & tutorial on the future of GI science and cloud computing at *National Aeronautics and Space Administration (NASA) SERVIR and Development Alternatives Incorporated (DAI)*, Washington DC, USA.
- 2014 Lecture & tutorial on the role of Geographic Information Systems in Aid mapping at the *Bill & Melinda Gates Foundation*, Seattle WA, USA.

Journal Special Issues

- 2019 Guest Editor. Special Issue on topics from Spatial Knowledge and Information Canada. *Geomatica*.
- 2019 Guest Editor. [Special Issue on Geospatial Privacy and Security](#). *The Journal of Spatial Information Science (JoSIS)*.
- 2018 Guest Editor. [Special Issue on Artificial Intelligence and Deep Learning for Geographic Knowledge Discovery](#). *The International Journal of Geographical Information Science*
- 2016 Guest Editor. [Special Issue on Provenance and Credibility in Spatial and Platial Information](#). *The Journal of Spatial Information Science (JoSIS)* – Vol 13

Events Organized

- 2020 Conference Organizing Committee - Workshop Chair. [The 11th International Conference on Geographic Information Science \(GIScience '20\)](#) - Poznań, Poland
- 2019 Program Chair. [Spatial Knowledge and Information \(SKI\) - Canada 2019](#) - Banff, Canada
- 2018 Conference Organizing Committee - Workshop Chair. [The 8th International Conference on the Internet of Things \(IoT 2018\)](#) - Santa Barbara, USA
- 2018 Workshop Chair. [Location Privacy and Security \(LoPaS\) Workshop](#) at the 10th International Conference on Geographic Information Science (GIScience '18) - Melbourne, Australia
- 2017 Workshop Chair. [The First Workshop on GeoAI: AI and Deep Learning for Geographic Knowledge Discovery](#) at the 25th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL '17) - Redondo Beach, USA

- 2017 Workshop Chair. Workshop on Geo-Knowledge Graphs (GKG17) 2017 at the 13th International Conference on Spatial Information Theory (COSIT '17) - L'Aquila, Italy (Canceled)
- 2016 Workshop Chair. [Spatial Data on the Web \(SDW\) 2016](#) at the Ninth International Conference on Geographic Information Science (GIScience '16) - Montreal, Canada
- 2016 Workshop Chair. [GeoVoCamp DC 2016](#). College Park, Maryland
- 2015 Workshop Chair. [GeoPrivacy: 2nd Workshop on Privacy in Geographic Information Collection and Analysis](#) at The 23rd International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2015) - Seattle, Washington.
- 2014 Workshop Chair. [GeoPrivacy: 1st Workshop on Privacy in Geographic Information Collection and Analysis](#) at The 22nd International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2014) - Dallas, Texas.
- 2014 Workshop Chair. [Workshop on Geographic Information Observatories](#) at The 8th International Conference on Geographic Information Science (GIScience 2014) - Vienna, Austria.

Press & Outreach

- 2019 Daigle, T. [Why an image problem is slowing e-scooter rollout in Canada](#). *CBC National (Print)* [Interview] September 7, 2019.
- 2019 Daigle, T. [News piece on e-scooters across Canada](#). *CBC's The National (TV)* [Interview] September 5, 2019.
- 2019 Ugolini, R. [Are E-Scooters here to stay – or will they roll on once summer's gone?](#). *CBC Radio Noon Montreal* [Interview] August 15, 2019 (12pm).
- 2019 Rozwadowski, K. [Electric scooters hit the streets of Montreal](#). *CityNews Montreal* [Interview] August 13, 2019 (6pm).
- 2019 Grillo, M. [Get ready to glide: E-scooter service launches in Montreal](#). *CTV News Montreal* [Interview] August 12, 2019 (6pm).
- 2019 MacFarlane, J. [Montrealers are trying Uber's new bikeshare program, but it hasn't got the jump on Bixi](#). *CBC News Montreal* August 2, 2019.
- 2019 Wood, N. [Jump's first month in Montreal](#). *CBC News Montreal (TV)* [Analysis referenced] August 1, 2019 (6pm).
- 2019 Rubertucci, A. [Uber's e-bikes not affecting Bixi's business](#). *CityNews Montreal* [Interview] August 2, 2019 (6pm).
- 2019 MacLellan, A. [E-scooters make debut in Montreal](#). *CBC Daybreak Montreal* [On Air Interview] July 8, 2019 (7am).
- 2019 van der Heyden, T. [Scooter-share coming to Montreal](#). *CTV News - Afternoon* [On Air Interview] July 5, 2019 (4pm).
- 2019 MacFarlane, J. [How Montreal is preparing for the 'scooter-pocalypse'](#). *CBC News Montreal* July 4, 2019.
- 2013 Tang, V. [Five Maps That Could Help Solve Some of the World's Most Daunting Problems](#). *Wired Magazine* 21(12) pp. 231.

University & Department Service

- 2019 Geographic Information Center Steering Committee (Chair) - McGill University
- 2019 Graduate Advising Committee (Member) - Department of Geography, McGill University
- 2018 Faculty lecturer promotion review (3 faculty) - Department of Geographical Sciences, University of Maryland
- 2018 Carmello Distinguished Dissertation Award Committee - College of Behavioral and Social Sciences, University of Maryland
- 2018 Center for Geospatial Information Science Advisory Board - Department of Geographical Sciences, University of Maryland
- 2018 Graduate Program Committee - Department of Geographical Sciences, University of Maryland
- 2017 Undergraduate Program Committee - Department of Geographical Sciences, University of Maryland
- 2017 Department Advisory Committee - Department of Geographical Sciences, University of Maryland

Referee & Editorial Boards

Editorial Board Member - [AIMS Geosciences](#). AIMS Press. (2017 - current)

Advisory Board Member - [Roam Tech](#). (2016 - current)

Reviewed numerous manuscript submissions to journals and conferences ranging from the *International Journal of Geographic Information Science*, *Cartographica*, *WWW Conference* and *ACM SIGSPATIAL*, to name a select few.

Professional Membership

University Consortium for Geographic Information Science (Former UMD Delegate)

Association of American Geographers (AAG)

Association for Computing Machinery (ACM)

Association of Canadian Geographers (CAG)

International Cartographic Association (ICA) Commission on Geospatial Analysis and Modeling

PROFESSIONAL EXPERIENCE (INDUSTRY & AID)

Spatial Development International

Founding Member & Geospatial Data Scientist

Seattle, WA

2009-2019

Spatial Development International is a data visualization company supporting sustainable development through spatial technology. Select clients I've worked with are listed below.

- *The American Red Cross - International Services*
- *The World Bank Group*
- *Bill & Melinda Gates Foundation*

CH2M HILL Engineering Ltd.
Geospatial Developer / Systems Architect

Seattle, WA
2007-2009

CH2M HILL is an American engineering company that provides consulting, design, construction, and operations services for corporations, and federal, state, and local governments. Select clients I've worked with are listed below.

- *GeoEye Space Imaging (now DigitalGlobe)*
- *Food and Agricultural Organization - HarvestChoice*
- *The International Food Policy Research Institute & International Water Management Institute*



Grant D. McKenzie, Ph.D.
September 12, 2019