MANOS PAPAGELIS

YORK UNIVERSITY, LASSONDE SCHOOL OF ENGINEERING
ELECTRICAL ENGINEERING & COMPUTER SCIENCE (LAS 3050)
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RESEARCH INTERESTS

Data mining, graph mining, big data analytics, machine learning, knowledge discovery

EDUCATION

APR 2015 — **PH.D., UNIVERSITY OF TORONTO, CANADA**
Department of Computer Science
Thesis: Understanding and improving online social interactions and processes: methods, algorithms & applications

MAR 2005 — **M.SC., UNIVERSITY OF CRETE, GREECE**
Department of Computer Science
Specialization area: (a) information systems, (b) computer networks and telecommunications
Thesis: Crawling the algorithmic foundations of recommendation technologies

JUN 2002 — **B.SC., UNIVERSITY OF CRETE, GREECE**
Department of Computer Science
Thesis: User-based recommendation algorithms and their role in the formation of online virtual communities

ACADEMIC APPOINTMENTS

JUL 2021 – PRESENT — **ASSOCIATE PROFESSOR, YORK UNIVERSITY, TORONTO CANADA**
Lassonde School of Engineering
Department of Electrical Engineering & Computer Science

JUL 2016 – JUN 2021 — **ASSISTANT PROFESSOR, YORK UNIVERSITY, TORONTO, CANADA**
Lassonde School of Engineering
Department of Electrical Engineering & Computer Science

AUG 2015 – JUL 2016 — **LECTURER & POSTDOCTORAL FELLOW, UNIVERSITY OF CALIFORNIA, BERKELEY**
UC Berkeley School of Information (iSchool)
Professional Master of Information and Data Science (MIDS) program

SEP 2010 – APR 2015 — **SESSIONAL LECTURER, UNIVERSITY OF TORONTO, CANADA**
Department of Computer Science

RECOGNITIONS (HONORS & AWARDS)

JUL 2021 — LASSONDE SCHOOL OF ENGINEERING – **Lassonde Educator of the Year Award**
JUN 2020 — 21ST IEEE INTERN. CONF. ON MOBILE DATA MANAGEMENT (IEEE MDM 2020) – **Best Paper Award**
JUN 2018 — 19TH IEEE INTERN. CONF. ON MOBILE DATA MANAGEMENT (IEEE MDM 2018) – **Best Paper Award**
JAN 2018 — 26TH ACM INTERN. CONF. ON INFORM. & KNOWL. MANAGEMENT (ACM CIKM 2017) – **Outstanding Reviewer Award**
AUG 2015 – JUL 2016 — UNIVERSITY OF CALIFORNIA, BERKELEY – Postdoctoral Fellowship
JAN 2011 — ELSEVIER ENGINEERING APPLICATIONS OF AI – **Top Cited Article 2005-2010 award**
JAN 2011 – DEC 2012 — UNIVERSITY OF TORONTO – Platform Computing Graduate Fellowship in CS
SEP 2005 – SEP 2010 — UNIVERSITY OF TORONTO – Graduate Fellowship
JUN 2010 – AUG 2010 — YAHOO! RESEARCH – Research Internship Fellowship
MAY 2009 – JUL 2009 — YAHOO! RESEARCH – Research Internship Fellowship

SEP 2004 – MAY 2005	EUROPEAN UNION – "Innovative Ideas Worth Funding" Award – Online Conference Management System
FEB 2005 – JUL 2005	FOUNDATION OF RESEARCH & TECHNOLOGY, HELLAS (FORTH) – Training and Specialization Fellowship
FEB 2003 – JAN 2005	FOUNDATION OF RESEARCH & TECHNOLOGY, HELLAS (FORTH) – Graduate Fellowship
SEP 2002 – FEB 2003	FOUNDATION OF RESEARCH & TECHNOLOGY, HELLAS (FORTH) – Training and Specialization Fellowship
SEP 1992 – SEP 1997	GREEK MINISTRY OF EDUCATION – Honors Award for Excellence in Education

OTHER EMPLOYMENT HISTORY

SEP 2017 – DEC 2020	**CO-FOUNDER, BIM2NETWORK INC.** (DORMANT) BIM-based collaborative design and socio-technical analytics of green buildings
SEP 2005 – AUG 2017	**SYSTEM ARCHITECT & ENGINEER, ONLINE SERVICE, SELF-EMPLOYED** Design, development and distribution of an online conference management system (www.confious.com)
SEP 2012 – JUL 2015	**RESEARCH FELLOW AND SOFTWARE ARCHITECT, UNIVERSITY OF TORONTO, CANADA** Department of Computer Science / Department of Civil Engineering Interdisciplinary research project on sustainable buildings and big data
SEP 2005 – APR 2015	**RESEARCH FELLOW/ASSISTANT, UNIVERSITY OF TORONTO, CANADA** Department of Computer Science Research interests in data mining, graph mining, databases, knowledge discovery
SEP 2005 – SEP 2010	**TEACHING ASSISTANT, UNIVERSITY OF TORONTO, CANADA** Department of Computer Science Courses: introduction to databases, software engineering, web programming, information systems analysis and design, computer science for the sciences, software tools and systems programming, data base management systems.
JUN 2010 – AUG 2010	**RESEARCH INTERN, YAHOO! RESEARCH, BARCELONA, SPAIN** Usage Mining and Link Analysis Group Research related to (i) influence maximization in online social media, (ii) graph augmentation algorithms
MAY 2009 – JUL 2009	**RESEARCH INTERN, YAHOO! RESEARCH, BARCELONA, SPAIN** Social Media Group Research related to (i) social influence in online social media, (ii) models of user credibility in online social media
JUN 2005 – JUL 2005	**VOLUNTEER INSTRUCTOR, MUNICIPALITY OF HERAKLION, CRETE, GREECE** Course: Introduction to computing
JAN 2003 – JAN 2005	**TEACHING ASSISTANT, UNIVERSITY OF CRETE, GREECE** Department of Computer Science Courses: data base management systems, web programming, business process and workflow management systems
SEP 2002 – AUG 2005	**RESEARCH FELLOW, FOUNDATION OF RESEARCH AND TECHNOLOGY HELLAS (FORTH), GREECE** Institute of Computer Science (ICS), Information Systems Laboratory Research related to (i) personalization, (ii) recommendation algorithms, (iii) information integration
OCT 1999 – SEP 2001	**CO-FOUNDER & SOFTWARE ENGINEER, ATLANTIS GROUP** R&D Group at the Department of Computer Science, University of Crete, Greece Design and development of web portals and mobile services

RESEARCH & PROFESSIONAL AFFILIATIONS

2016 – PRESENT	Member	EECS Department Faculty, Lassonde School of Engineering, York University
2016 – PRESENT	Member	Graduate Program in Electrical Engineering & Computer Science, York University
2016 – PRESENT	Member/PI	Data Mining Lab, EECS Department, York University
2016 – PRESENT	Member/Co-PI	BRAIN Alliance (Big Data Research, Analytics, Information Networks)
2017 – PRESENT	Member/Co-PI	Data Visualization and Analytics Training Program (NSERC CREATE DAV)
2019 – PRESENT	Member/Co-PI	Dependable Internet of Things Applications (NSERC CREATE DITA)

2016 – PRESENT	Member/Co-PI	Center for Innovation in Computing @ Lassonde (IC@L)
2019 – PRESENT	Member	AI at York University (AI@YorkU)
2016 – PRESENT	Member	Association for Computing Machinery (ACM)
2016 – PRESENT	Member	Institute of Electrical and Electronics Engineers (IEEE)

PROFESSIONAL CONTRIBUTION & STANDING

PUBLICATIONS SUMMARY AND CITATION ANALYSIS (AS OF SEP 2021)

Number of citations (by Google scholar):	**1420+**
H-index (by Google scholar):	**14**
Number of Publications:	**45**
- *Journal articles (peer-reviewed):*	*9*
- *Conferences papers (peer-reviewed):*	*26*
- *Workshop papers (peer-reviewed):*	*5*
- *Magazine articles (peer-reviewed):*	*1*
- *Theses:*	*3*
- *Patents (granted):*	*1*
Number of submitted/under review:	**7**
- *Journal articles (peer-reviewed):*	*2*
- *Conferences papers (peer-reviewed):*	*1*
- *Patents (applications):*	*4*
Invited talks / Keynote talks	**8**
Software releases	**7**
Technical reports (non-referred)	**3**
Citation analysis (by Google scholar):	**http://goo.gl/3bi9m**

INVITED LECTURES / KEYNOTE TALKS

DATE	TALK TITLE
DEC 13TH, 2020	Keynote speaker, Research Week Event at Sharif University of Technology, International Campus (SUTIC)
NOV 11TH, 2020	Panelist, Urban Big Data and Privacy: A workshop on Built Environment Research
JUL 6TH, 2019	Large-scale Mining of Dynamic Networks (Google Canada)
JUN 28TH, 2019	Large-scale Mining of Dynamic Networks (NSERC CREATE Data Analytics & Visualization Summer School)
MAY 28TH, 2019	Fast and Accurate Mining of Evolving & Trajectory Networks. Keynote at the International Workshop on Dynamics On and Of Complex Networks 2019 (DOOCN-XII)
MAY 9TH, 2019	Big Data Analytics. (NSERC CREATE Dependable Internet of Things Applications, Integrative Course 2019)
DEC 17TH, 2018	Trajectory Network Mining. (University of Warwick, UK)
JUL 6TH, 2018	End-to-end Graph Analytics. (NSERC CREATE Data Analytics and Visualization Summer School)

LIST OF PUBLICATIONS[1]

JOURNAL ARTICLES (PEER-REVIEWED)

[J11] *Babanejad, N., Davoudi, H., *Agrawal, A., An, A., & Papagelis, M. (2021). Customized Pre-processing for Language Representation Learning for Affective Tasks. **Submitted**.

[1] (*) An asterisk in front of a name indicates a student co-author, supervised either directly or in the scope of a research project/course.

[J10] *Pechlivanoglou, T. *Li, J, *Sun, J., *Heidari, F. & Papagelis, M. (2021). Epidemic spreading in trajectory networks. **Accepted with minor revisions (currently under review)**.

[J9] *Zhao, X., Papagelis, M., An, A., *Chen, B. X., Liu, J., & Hu, Y. (2021). ZIPLINE: An Optimized Algorithm for the Elastic Bulk Synchronous Parallel Model. Machine Learning (**MACH**). In Press. Accepted: Sept 3, 2021.

[J8] *Costa, E. N., *Pechlivanoglou, T. & Papagelis, M. (2021). OL-HEATMAP: Effective density visualization of multiple overlapping rectangles. Big Data Research journal **(BDR)**. Special Issue on Interactive Big Data Visualization and Analytics. 25(100235): 1-12. (**impact Factor: 2.673**)

[J7] *Heidari, F. & Papagelis, M. (2020). EVONRL: Evolving network representation learning based on random walks. Elsevier Applied Network Science (**APNS**) Journal, Vol 5, No 18, 1-38. (**Special Issue on Machine Learning with Graphs**).

[J6] *Sawas, A., *Abuolaim, A., *Afifi, M. & Papagelis, M. (2019). A versatile computational framework for group pattern mining of pedestrian trajectories. **GeoInformatica**, Vol. 23, Issue 4, 501-531. (**impact factor: 2.091**).

[J5] El-Diraby, T., Krijnen, T., & Papagelis, M. (2017). BIM-based collaborative design and socio-technical analytics of green buildings. Automation in Construction (**AiC**), 82, 59-74. (**impact factor: 4.032**).

[J4] Papagelis, M. (2015). Refining social graph connectivity via shortcut edge addition. ACM Transactions on Knowledge Discovery from Data (**ACM TKDD**), Vol. 10, Issue 2, Article No 12. (**impact factor: 1.895**).

[J3] Papagelis, M., Das, G., & Koudas, N. (2013). Sampling online social networks. IEEE Transactions on Knowledge and Data Engineering, (**IEEE TKDE**) Vol. 25, Issue 3, 662-676. (**impact factor: 3.438**).

[J2] Doerr, M., & Papagelis, M. (2007). A method for estimating the precision of place name matching. IEEE Transactions on Knowledge and Data Engineering (**IEEE TKDE**), Vol. 19, Issue 8, 1089-1101. (**impact factor: 3.438**).

[J1] Papagelis, M., & Plexousakis, D. (2005). Qualitative analysis of user-based and item-based prediction algorithms for recommendation agents. Engineering Applications of Artificial Intelligence (**EAAI**), 18(7), 781-789. (**impact factor: 2.819** / **Elsevier EAAI top cited article 2005-2010 award**).

CONFERENCE PAPERS (PEER-REVIEWED)

[C27] Tarawneh , E. Agrawal, A., An, A., Jenkin, M. & Papagelis, M. (2020). Predicting Evoked Emotions in Conversations. **Submitted**.

[C26] *Babanejad, N., *Agrawal, A., Davoudi, H., An, A., & Papagelis, M. (2020). Affective and Contextual Embedding for Sarcasm Detection. In Proceedings of the 28th International Conf. on Computational Linguistics, pp. 225–243 (**COLING**).

[C25] *Pechlivanoglou, T., *Alsaeed, M. & Papagelis, M. (2020). MRSweep: Distributed in-memory sweep-line for scalable object intersection problems. In Proceedings of the 7th IEEE International Conference on Data Science and Advanced Analytics, pp. 324-333 (**IEEE DSAA 2020**).

[C24] Agrawal, A., An, A. & Papagelis, M. (2020). Leveraging transitions of emotions for sarcasm detection. In Proceedings of the 43rd ACM International Conference on Research and Development in Information Retrieval, pp. 1505-1508 (**ACM SIGIR 2020**).

[C23] *Babanejad, N., *Agrawal, A., An, A., & Papagelis, M. (2020). A comprehensive analysis of preprocessing for word representation learning in affective tasks. In Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, pp. 5799 – 5810 (**ACL 2020**).

[C22] *Mehmood, S. & Papagelis, M. (2020). Learning semantic relations of geographic areas based on trajectories. In Proceedings of the 21st IEEE International Conference on Mobile Data Management, pp. 109-118 (**IEEE MDM 2020**). (**best paper award**).

[C21] *Pechlivanoglou, T., *Chu, V., & Papagelis, M. (2019). Efficient mining and exploration of multiple axis-aligned intersecting objects. In Proceedings of the 19th IEEE International Conference on Data Mining, pp. 1276-1281 (**IEEE ICDM 2019**).

[C20] *Zhao, X., Papagelis, M., An, A., *Chen, B. X., Liu, J., & Hu, Y. (2019). Elastic bulk synchronous parallel model for distributed deep learning. In Proceedings of the 19th IEEE International Conference on Data Mining, pp. 1504-1509 (**IEEE ICDM 2019**).

[C19] *Heidari, F. & Papagelis, M. (2018). EvoNRL: Evolving network representation learning based on random walks. In Proceedings of the 7th International Conference on Complex Networks and Their Applications, pp. 457-469 (**Complex Networks 2018**).

[C18] *Pechlivanoglou, T. & Papagelis, M. (2018). Fast and accurate mining of node importance in trajectory networks. In Proceedings of the 6th IEEE International Conference on Big Data, pp. 781-790 (**IEEE BigData 2018**).

[C17] *Agrawal, A., An, A., & Papagelis, M. (2018). Learning emotion-enriched word representations. In Proceedings of the 27th International Conference on Computational Linguistics, 950-961 (**COLING 2018**).

[C16] *Sawas, A., *Abuolaim, A., *Afifi, M. & Papagelis, M. (2018). Tensor methods for group pattern discovery of pedestrian trajectories. In Proceedings of the 19th IEEE International Conference on Mobile Data Management, pp. 76-85 (**IEEE MDM 2018**). (**best paper award**).

[C15] *Sawas, A., *Abuolaim, A., *Afifi, & M., Papagelis, M. (2018). Trajectolizer: interactive analysis and exploration of trajectory group dynamics. In Proceedings of the 19th IEEE International Conference on Mobile Data Management, pp. 286-287 (**IEEE MDM 2018**).

[C14] El-Diraby, T., Krijnen, T. F., & Papagelis, M. (2016). Green 2.0: socio-technical analytics of green buildings. In Proceedings of the International Conference on Smart Infrastructure and Construction, 10 pages, (**ICSIC 2016**).

[C13] Papagelis, M., Krijnen, T. F., Elshenawy, M., Konomi, T., Fang, R., & El-Diraby, T. (2016). Green2. 0: enabling complex interactions between buildings and people. In Proceedings of the 19th ACM Conference on Computer Supported Cooperative Work and Social Computing Companion, pp. 77-80 (**ACM CSCW 2016**).

[C12] Papagelis, M. (2015). Refining social graph connectivity via shortcut edge addition. In Proceedings of the 13rd Hellenic Data Management Symposium (**HDMS 2015**).

[C11] Redmond, A., El-Diraby, T., & Papagelis, M. (2015). Employing an exploratory research stage to evaluate green building technologies for sustainable systems. In Proceedings of the International Conference on Civil, Structural and Transportation Engineering (**ICCSTE 2015**).

[C10] Papagelis, M., Bonchi, F., & Gionis, A. (2011). Suggesting ghost edges for a smaller world. In Proceedings of the 20th ACM International Conference on Information and Knowledge Management, pp. 2305-2308 (**ACM CIKM 2011**).

[C9] Papagelis, M., Murdock, V., & van Zwol, R. (2011). Individual behavior and social influence in online social systems. In Proceedings of the 22nd ACM conference on Hypertext and hypermedia, pp. 241-250 (**ACM HyperText 2011**).

[C8] Papagelis, M., Bansal, N., & Koudas, N. (2009). Information cascades in the blogosphere: a look Behind the Curtain. In Proceedings of the 3rd AAAI International Conference on Web and Social Media, pp. 292-295 (**ICWSM 2009**).

[C7] Papagelis, A., Papagelis, M., & Zaroliagis, C. (2008). Enabling social navigation on the web. In Proceedings of the 3rd IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology, pp. 162-168 (**IEEE WI-IAT 2008**).

[C6] Papagelis, A., Papagelis, M., & Zaroliagis, C. (2008). Iclone: towards online social navigation. In Proceedings of the 19th ACM conference on Hypertext and Hypermedia, pp. 237-238 (**ACM HyperText 2008**).

[C5] Papagelis, M., Plexousakis, D., & Nikolaou, P. N. (2005). Confious: managing the electronic submission and reviewing process of scientific conferences. In Proceedings of the 6th International Conference on Web Information Systems Engineering, pp. 711-720 (**ACM WISE 2005**).

[C4] Papagelis, M., Plexousakis, D., & Kutsuras, T. (2005). Alleviating the sparsity problem of collaborative filtering using trust inferences. In Proceedings of the 3rd International Conference on Trust Management, pp. 224-239 (**iTrust 2005**).

[C3] Papagelis, M., Rousidis, I., Plexousakis, D., & Theoharopoulos, E. (2005). Incremental collaborative filtering for highly-scalable recommendation algorithms. In Proceedings of the 15th International Symposium on Methodologies for Intelligent Systems, pp. 553-561 (**ISMIS 2005**).

[C2] Papagelis, M., & Plexousakis, D. (2004). Qualitative analysis of user-based and item-based prediction algorithms for recommendation systems. In Proceedings of the 3rd Hellenic Data Management Symposium (**HDMS 2004**).

[C1] Papagelis, M., & Plexousakis, D. (2003). Recommendation based discovery of dynamic virtual communities. In Proceedings of the 15th International Conference on Advanced Information Systems Engineering, pp. 197-200 (**CAiSE 2003**).

WORKSHOP PAPERS (PEER-REVIEWED)

[W5] *Babanejad, N., *Agrawal, A., Davoudi, H., An, A., & Papagelis, M. Leveraging emotion features in news recommendations. In Proceedings of the 7th Workshop on News Recommendation and Analytics. (**INRA/ACM Recommender Systems 2019 Workshops**).

[W4] *Chen, B. X., *Sahdev, R. *Wu, D., *Zhao, X., Papagelis, M., & Tsotsos, J. K. (2018). Scene classification in indoor environments for robots using context based word embeddings. In Proceedings of the IEEE International Conference on Robotics and Automation - Multimodal Robot Perception Workshop, 6 pages (**ICRA 2018 Workshops**).

[W3] Das, G., Koudas, N., Papagelis, M., & Puttaswamy, S. (2008). Efficient sampling of information in social networks. In Proceedings of the 2008 ACM Workshop on Search in Social Media, pp. 67-74 (**SSM/ACM CIKM 2008 Workshops**).

[W2] Doerr, M., & Papagelis, M. (2004). Precision estimation for matching place names to a digital gazetteer. In Proceedings of the 3rd Workshop on User-centred approaches to Networked Knowledge Organization Systems/Service (**NKOS/ECDL 2004 Workshops**).

[W1] Papagelis, M., & Plexousakis, D. (2004). Qualitative analysis of user-based and item-based prediction algorithms for recommendation agents. In Proceedings of the International Workshop on Cooperative Information Agents, pp. 152-166 (**CIA 2004**).

MAGAZINE ARTICLES (PEER-REVIEWED)

[M1] Papagelis, M., & Plexousakis, D. (2006). CONFIOUS: Conference Management System with Intelligence, Power and Style. ERCIM NEWS Magazine, Vol. 64, Jan 2006.

TECHNICAL REPORTS (NON-REFEREED)

[TR3] Papagelis, M., Bansal, N., & Koudas, N. (2009). Engagement and reaction in the blogosphere. Supplementary material of the article "Papagelis, M., Bansal, N., & Koudas, N. (2009). Information cascades in the blogosphere: a look behind the curtain. In Proceedings of the 3rd AAAI International Conference on Web and Social Media, pp. 292-295 (ICWSM 2009)."

[TR2] Doerr, M., & Papagelis, M. (2004). Description of application based on the Alexandria digital gazetteer protocol. Available online at the Alexandria Digital Library (2004).

[TR1] Papagelis, M., & Plexousakis, D. (2003). Recommendation based discovery of dynamic virtual communities. Movie Recommendation System (MRS) Overview.

THESES

[T3] Papagelis, M. (2015). Understanding and improving online social interactions and processes: methods, algorithms & applications. Ph.D. thesis, Department of Computer Science, University of Toronto, Canada.

[T2] Papagelis, M. (2005). Crawling the algorithmic foundations of recommendation technologies. M.Sc. thesis, Department of Computer Science, University of Crete, Greece.

[T1] Papagelis, M. (2003). Study and implementation of user-based recommendation algorithms and their role in the formation of online virtual communities. B.Sc. thesis, Department of Computer Science, University of Crete, Greece.

INTELLECTUAL PROPERTY

PATENTS (APPLICATIONS)

[P5] *Quader, S., *Jaramillo, A., Mukhopadhyay, S., Papagelis, M., Litoiu, M., Kalmuk, D., Mierzejewski, P. (2020). Learning-based Workload resource optimization for autonomous database management systems. Disclosure No. P202006917.

[P4] Zhao, X., Papagelis, M., An, A., *Chen, B. X., Liu, J., & Hu, Y. (2020). Elastic bulk synchronous parallel model for distributed deep learning. Disclosure No. P202006939.

[P3] El-Diraby, T., Papagelis, M., Krijnen, T. (2016). Systems and methods for sustainability and social interaction analysis in building information modeling. Pub. No.: WO/2019/000083. Intern. App. No.: PCT/CA2018/050779. International Filing Date: 26.06.2018.

[P2] Murdock, V., van Zowl, R., Papagelis, M. (2012). Measuring or Estimating User Credibility. US Patent App. 12/898,644, 2012.

PATENTS (GRANTED)

[P1] Murdock, V., van Zowl, R., Papagelis, M. (2016). Media or content tagging determined by user credibility signals". US Patent 9,529,822.

SOFTWARE RELEASES

DATE	NAME	BRIEF DESCRIPTION	URL
2020	MRSWEEP	A distributed in-memory version of the popular sweep-line algorithm for finding axis-aligned geometric object intersections (overlaps). Implemented using MapReduce in Apache Spark.	https://github.com/tipech/mrsweep
2020	OL-HEATMAP	A novel heatmap-like visualization method for effective density visualization of the overlaps of multiple intersecting axis-aligned objects (line-segments in 1*D*, rectangles in 2*D*, cuboids in 3*D*, etc.).	https://github.com/tipech/overlapGraph
2020	ACE 1 & ACE 2	Two novel deep neural network language models (ACE 1 and ACE 2) for sarcasm detection. Each model extends the architecture of BERT by incorporating both affective and contextual features of text to build a classifier that can determine whether a document is sarcastic or not.	https://github.com/NastaranBa/ACE-for-Sarcasm-Detection
2019	ZIPLINE	An optimization method for materializing ElasticBSP. ElasticBSP is an efficient method for training deep learning models in a distributed environment.	https://github.com/xingzhaoo/ElasticBSP (currently confidential due to an NDA)
2019	SLIG	An efficient method for finding information about the overlaps of multiple intersecting axis-aligned objects (line-segments in 1*D*, rectangles in 2*D*, cuboids in 3*D*, etc.).	https://github.com/tipech/overlapGraph
2019	EVONRL	A deep learning method for obtaining continuous low-rank representations of an evolving graph/network.	https://github.com/farzana0/EvoNRL
2018	SLOT	An efficient method for profiling nodes in trajectory networks (dynamic networks defined by trajectories). Metrics include node degree, triangle membership and connected components – defined as a function of time.	https://github.com/tipech/trajectory-networks

TEACHING (LECTURING, SUPERVISION, COMMITTEE MEMBERSHIP)

UNDERGRADUATE TEACHING

UNDERGRADUATE COURSES DEVELOPED

TERM/YEAR	COURSE CODE	COURSE NAME & DESCRIPTION
FALL 2016	EECS 4414	INFORMATION NETWORKS Information networks are effective representations of pairwise relationships between objects. Examples include technological networks (e.g., World Wide Web), online social networks (e.g., Facebook), biological networks (e.g., Protein-to-Protein interactions), and more. The study of information networks is an emerging discipline of immense importance that combines graph theory, probability and statistics, data mining and analysis, and computational social science. This course provides students with both theoretical knowledge and practical experience of the field by covering models and algorithms of information networks and their basic properties. In addition, analysis of information networks provides the means to explore large, complex data coming from vastly diverse sources and to inform computational problems and better decisions.
FALL 2016	EECS 4415	BIG DATA SYSTEMS Storing, managing, and processing datasets is foundational to both computer science and data science. The enormous size of today's data sets — and the specific requirements of modern applications — necessitated the growth of a new generation of data management systems, where the emphasis is put on distributed and fault-tolerant processing. New programming paradigms have evolved, an abundance of information platforms offering data management and analysis solutions have appeared, and a number of novel methods and tools have been developed. This course introduces the fundamentals of big-data storage, retrieval, and processing systems. As these fundamentals are introduced, exemplary technologies are used to illustrate how big data systems can leverage very large data sets that become available through multiple sources and are characterized by diverse levels of volume (terabytes, billion records), velocity (batch, real-time, and streaming), and variety (structured, semi-structured, and unstructured). The course aims to provide students with both theoretical knowledge and practical experience of the field by covering recent research on big-data systems and their basic properties. Students consider both small and large datasets because both are equally important and justify different trade-offs.

UNDERGRADUATE COURSES TAUGHT

COURSE CODE	COURSE NAME	TERM / YEAR
EECS 3421	Introduction to Databases	W19, F19, SU20
EECS 4415	Big Data Systems	F18, F19, S21
EECS 4414	Information Networks	W18, F20
EECS 2031	Software Tools	W18

GRADUATE TEACHING

GRADUATE COURSES DEVELOPED

TERM / YEAR	COURSE CODE	COURSE NAME & DESCRIPTION
WINTER 2017	EECS 6414	DATA ANALYTICS & VISUALIZATION Data analytics and visualization is an emerging discipline of immense importance to any data-driven organization. This is a project-focused course that provides students with knowledge on tools for data mining and visualization and practical experience working with data mining and machine learning

		algorithms for analysis of very large amounts of data. It also focuses on methods and models for efficient communication of data results through data visualization.
FALL 2016	EECS 6413 (currently listed as EECS 4414/5414)	INFORMATION NETWORKS Information networks are effective representations of pairwise relationships between objects. Examples include technological networks (e.g., World Wide Web), online social networks (e.g., Facebook), biological networks (e.g., Protein-to-Protein interactions), and more. The study of information networks is an emerging discipline of immense importance that combines graph theory, probability and statistics, data mining and analysis, and computational social science. This course provides students with both theoretical knowledge and practical experience of the field by covering models and algorithms of information networks and their basic properties. In addition, analysis of information networks provides the means to explore large, complex data coming from vastly diverse sources and to inform computational problems and better decisions.

GRADUATE COURSES TAUGHT

COURSE CODE	COURSE NAME	TERM/YEAR
EECS 6414	Data Analytics and Visualization	F17, W19, W20, W21
EECS 6413/5414	Information Networks	W17 (APPEARED AS EECS 6413), F20

SUMMARY OF COURSE EVALUATIONS

The table below provides a summary of my course evaluations. The score reported is the score in **the overall instructor effectiveness question** of the evaluation form. The normalized score is provided (out of 100%) to improve readability/comparisons. York University's scoring is out of 7. **Detailed course evaluations are provided as separate files.**

ACADEMIC INSTITUTION	COURSE CODE	COURSE LEVEL	SEMESTER	TOTAL STUDENT ENROLMENT	NORMALIZED SCORE (100%)
York University	EECS6414	Graduate	W21	30	**91.1%**
York University	EECS6414	Graduate	W20	40	**92.6%**
York University	EECS6414	Graduate	W19	24	**87.7%**
York University	EECS6414	Graduate	F17	18	**89.3%**
York University	EECS6413	Graduate	W17	3	**100%**
York University	EECS4414	Undergraduate (4th)	F20	48	**93.9%**
York University	EECS3421	Undergraduate (3rd)	SU20	114	**93.4%**
York University	EECS4415	Undergraduate (4th)	F19	44	**94.4%**
York University	EECS4415	Undergraduate (4th)	F18	38	**95.0%**
York University	EECS4414	Undergraduate (4th)	W18	8	**100%**
York University	EECS3421	Undergraduate (3rd)	F19	98	**90.2%**
York University	EECS3421	Undergraduate (3rd)	W19	92	**93.0%**
York University	EECS2031	Undergraduate (2nd)	W18	122	**~90-100%**[2]

[2] This range is reflecting scores in course-level questions; instructor scores were not collected that year due to union strike disruptions.

SUPERVISION SUMMARY (JUL 2016 – PRESENT)

PROGRAM & DEGREE	#CURRENT	#GRADUATED	**#TOTAL**
EECS Ph.D.	2	1	**3**
EECS MSc	4	5	**9**
EECS M.A.Sc.	1	0	**1**
EECS MScAI	0	0	**0**
EECS Grad Research Project/Collaboration[3]	0	11	**11**
EECS Undergrad	4	15	**19**
#Total	**12**	**31**	**43**

GRADUATE SUPERVISION

GRADUATE STUDENTS SUPERVISED

DATES	STUDENT NAME	DEGREE	PROGRAM	THESIS TOPIC
SEP 2019 - PRESENT	Tilemachos Pechlivanoglou	Ph.D.	EECS	Machine learning with graphs (TBD)
SEP 2019 – PRESENT	Shaikh Quader (Co-supervised)	Ph.D.	EECS	Machine learning models for database query optimization (TBD)
SEP 2017 – DEC 2020	Nastaran Babanejad (Co-supervised)	Ph.D.	EECS	Enriching word representation learning for affect detection and affect-aware recommendations
SEP 2020 – PRESENT	Mahmoud Alsaeed	M.Sc.	EECS	Deep learning models for spatiotemporal knowledge graphs (TBD)
SEP 2020 – PRESENT	Andrew Nicolas Jaramillo (Co-supervised)	M.Sc.	EECS	Machine learning models for query optimization (TBD)
SEP 2019 – PRESENT	Mahta Shafieesabet	M.Sc.	EECS	Mining and exploration of active components in a network of time series
SEP 2019 – PRESENT	Fazel Arasteh	M.A.Sc.	EECS	Reinforcement learning for adaptive navigation of autonomous vehicles in the road network
SEP 2019 – PRESENT	Ali NematiChari	M.Sc.	EECS	Online methods for evaluating the performance of road network intersections
MAY 2019 – FEB 2020	Eric Niloy Costa	M.Sc.	EECS	Effective density visualization of multiple overlapping axis-aligned objects
SEP 2018 – SEP 2021	Hoorieh Marefat (Co-supervised)	M.Sc.	EECS	Fast similarity graph construction using data sketching techniques
JAN 2018 – APR 2020	Saim Mehmood	M.Sc.	EECS	Learning semantic relationships of geographical areas based on trajectories

[3] Includes: (i) EECS6400 – Graduate Research Project course (I'm supervising a research project for 8 months that is different to MSc thesis); (ii) EECS6002 – Reading course (focused readings and research on a topic); (iii) Ad hoc research collaboration with a student.

SEP 2017 – AUG 2019	Tilemachos Pechlivanoglou	M.Sc.	EECS	Sweep-line extensions to the multiple object intersection problem: methods and applications in graph mining
SEP 2017 – AUG 2019	Farzaneh Heidari	M.Sc.	EECS	Evolving network representation learning based on random walks

GRADUATE STUDENT PROJECTS (EECS6002, EECS6400, RESEARCH COLLABORATIONS)

DATES	STUDENT(S) NAME	DEGREE	PROGRAM	PROJECT/READING COURSE
JAN 2019 – AUG 2019	Javad Sayehvad	M.A.Sc.	EECS	EECS6400 - Distributed edge computing via k-nearest nodes in 5G networks
JAN 2019 – AUG 2019	Soroush Sheikh Gargar	M.A.Sc.	EECS	EECS6400 - Trajectory-based relational inference using graph-based latent models
JAN 2018 – DEC 2018	Nasim Razavi, Vincent Chu	M.Sc.	EECS	Research Collaboration – Trajectory behavior analytics
SEP 2017 – APR 2019	Abdullah Sawas, Abdullah Abuolaim, Mahmood Afifi	M.Sc.	EECS	Research Collaboration – Pedestrian trajectory group mining
SEP 2017 – APR 2018	Bao Xin Chen, Raghavender Sahdev	M.Sc.	EECS	Research Collaboration – Scene classification using context-based word embeddings
APR 2017 – AUG 2017	Shima Khoshraftar	Ph.D.	EECS	EECS6002 – Anomaly detection in dynamic and streaming graphs
SEP 2017 – APR 2018	Ali Zargar Shabestari	M.A.Sc.	EECS	EECS6400 – A genetic algorithm approach for the orienteering problem

SUPERVISORY COMMITTEE MEMBERSHIP

DATES	STUDENT NAME	DEGREE	PROGRAM	THESIS	ROLE
MAR 2021 – PRESENT	Amirhossein Nourbakhshrezaei	Ph.D.	ESSE	Machine Learning Models for Optimization of Transportation Network Systems	Supervisory Committee
MAR 2021 – PRESENT	Abhinav Tiwari	Ph.D.	EECS	Big Data Analytics for Electric Vehicle Charging Stations	Supervisory Committee
AUG 2020 – PRESENT	Chenxing Zheng	M.Sc.	EECS	Question Generation in the Era of Transformers	Supervisory Committee
AUG 2020 – PRESENT	Parsa Farshadfar	M.A.Sc.	EECS	Energy-efficient on-chip spiking CNN for epilepsy seizure detection using EEG signals	Supervisory Committee
JUL 2020 – MAY 2021	Farnaz Beidokhtinezhad	M.Sc.	EECS	Malicious User Aware Client Selection for Federated Learning	Supervisory Committee
JUL 2020 – MAY 2021	Saurabh Garg	M.Sc.	EECS	Comparative Studies of Gesture-based & Sensor-based Input Methods for Mobile Computing	Supervisory Committee
NOV 2019 – PRESENT	Yifan Li	Ph.D.	EECS	Data Management Meets Machine Learning	Supervisory Committee
AUG 2019 – PRESENT	Farzin Zaker	Ph.D.	EECS	Machine Learning Models for Learning End-to-end Latency of Distributed IoT Infrastructures	Supervisory Committee

JUL 2019 – PRESENT	Enas AlTarawneh	Ph.D.	EECS	TBD (Machine Learning, Robotics and Vision)	Supervisory Committee
JUL 2019 – PRESENT	Hossein Pourmodheji	Ph.D.	EECS	Data Streams and Online Deep Learning	Supervisory Committee
APR 2019 – MAR 2021	Xuyang Han	M.Sc.	ESSE	Modeling Vessel Behaviors by Clustering AIS Data Using Optimized DBSCAN	Supervisory Committee
SEP 2017 – PRESENT	Ali Zargar Shabestari	M.A.Sc.	EECS	Load-balancing Algorithms for Managing Distributed IoT Resources and Infrastructures	Supervisory Committee
SEP 2017 – APR 2019	Dekun (Jack) Wu	M.Sc.	EECS	Deep Learning Approach to Open-domain Factoid Question Answering from Knowledge Graph	Supervisory Committee
SEP 2017 – AUG 2019	Yangguang Li	M.Sc.	EECS	Optimizing Python Applications' Performance via Configuration Tuning	Supervisory Committee
SEP 2017 – PRESENT	Shima Khoshrafta	Ph.D.	EECS	Graph Embedding Methods	Supervisory Committee
SEP 2017 – MAY 2018	Ameeta Agrawal	Ph.D.	EECS	Enriching Affect Analysis Through Emotion and Sarcasm Detection	Supervisory Committee

EXAMINING COMMITTEE MEMBERSHIP

DATES	STUDENT NAME	DEGREE	PROGRAM	THESIS	ROLE
MAY 2021	Ali Nasehzadeh	M.Sc.	EECS	A Deep RL-based Caching Strategy for Internet of Things Networks with Transient Data	**Chair**, Examining Committee
APR 2021	Mahmoud Afifi	Ph.D.	EECS	Image Color Correction, Enhancement, and Editing	**Chair**, Examining Committee
APR 2021	Aman Ullah	M.Sc.	ESSE	Towards the Interoperability of BIM and GIS data using Semantic Web Technology	Internal, Examining Committee
SEP 2020	Boyuan Chen	Ph.D.	EECS	Improving the logging practices in DevOps	**Chair**, Examining Committee
SEP 2019	Mahdi Biparva	Ph.D.	EECS	Top-Down Selection in Convolutional Neural Networks	**Chair**, Examining Committee
AUG 2019	Kang Zhao	M.Sc.	ESSE	Using Deep Neural Networks for Automatic Building Extraction with Boundary Regularization from Satellite Images	Internal, Examining Committee
MAY 2018	Forouqsadat Khonsari	M.Sc.	EECS	Mining Large-Scale News Articles for Predicting Forced Migration via Machine Learning Techniques	**Chair**, Examining Committee
NOV 2018	Nima Shahbazi	Ph.D.	EECS	Discovery and Effective Use of Frequent Itemset Mining and Association Rules in Datasets	**Chair**, Examining Committee

UNDERGRADUATE SUPERVISION (DIRECTED READING, RESEARCH ASSISTANTSHIPS/ASSOCIATES, LAB VOLUNTEERING)

DATES	STUDENT(S) NAME	WHAT	PROGRAM	PROJECT/READING COURSE
MAY 2021 – AUG 2021	Nina Yanin	Research Intern (NSERC USRA)	EECS	Modeling and evaluation of location-based risk of epidemics using mobility data
MAY 2021 – AUG 2021	Gian Alix	Research Intern (NSERC USRA)	EECS	Personalized trip recommendations for mitigating the risk of infection during epidemics
JAN 2021 – APR 2021	Ege Cakmac	CS Project (EECS 4080)	EECS	Deep learning models for gait identification and analysis
MAY 2020 – AUG 2020	Kenneth Tjhia	Research Intern (NSERC USRA)	EECS	Learning active paths in streaming graphs
MAY 2020 – AUG 2021	Jing Li	Research Intern (LURA, 2x)	EECS	Epidemic Dynamics on Digitally Traced Contact Networks
MAY 2020 – AUG 2020	Jialin Sun	CS Project (EECS 4080)	EECS	Epidemic Dynamics on Digitally Traced Contact Networks
SEP 2019 – APR 2020	Aamir Ahmad	CS Project (EECS 4088)	EECS	Gait identification and analysis using machine learning through a mobile app
SEP 2019 – APR 2020	Hassaan Abid	CS Project (EECS 4088)	EECS	Gait identification and analysis using machine learning through a mobile app
SEP 2019 – APR 2020	Sami Tarazi	CS Project (EECS 4088)	EECS	Learning active paths in streaming graphs
SEP 2019 – APR 2020	Andrew Jaramillo	CS Project (EECS 4088)	EECS	Machine learning based optimization for database workloads
MAY 2019 – AUG 2019	Kenneth Tjhia	Research Intern (NSERC USRA)	EECS	Learning interactions of moving objects using variational auto-encoders
MAY 2019 – AUG 2019	Mahmoud Alsaeed	Research Intern (LURA)	EECS	Distributed sweep-line algorithm for scalable geometric object intersection analytics
JAN 2019 – APR 2019	Ragheb Abunahla	CS Project (EECS 4080)	EECS	Sentiment and emotion analysis of song lyrics for music recommendations systems
JAN 2019 – APR 2019	Praise Ayorinde	CS Project (EECS 4080)	EECS	Building code-based github user profiles for automatic project expert recommendations
MAY 2018 – AUG 2018	Hao (Leslie) Li	Directed Reading (EECS 4070)	EECS	Network representation learning
MAY 2018 – AUG 2018	Yi Yao	Volunteer	EECS	Trajectory data mining
MAY 2018 – AUG 2018	Jay Cen	Volunteer	EECS	Trajectory data mining
MAY 2018 – AUG 2018	Minghong (Sophia) Xu	Volunteer	EECS	Network representation learning
MAY 2017 – AUG 2018	Andrew Jaramillo	Volunteer	EECS	Mining city neighborhood dynamics

STUDENT AWARDS / RECOGNITIONS

FALL 2021	Jing Li	Vector Scholarship in AI	VECTOR INSTITUTE
FALL 2021	Jing Li	Lassonde Graduate Entrance Scholarship (LGES)	YORK UNIVERSITY
FALL 2021	Gian Alix	Vector Scholarship in AI	VECTOR INSTITUTE
SUMMER 2021	Nina Yanin	Undergraduate Student Research Award (USRA)	NSERC
SUMMER 2021	Gian Alix	Undergraduate Student Research Award (USRA)	NSERC
WINTER 2021	Jing Li	Lassonde Undergraduate Research Award (LURA)	LASSONDE SCHOOL OF ENGINEERING
JUN 2020	Saim Mehmood	IEEE MDM 2020 Best Paper Award	21ST IEEE INTERNATIONAL CONFERENCE ON MOBILE DATA MANAGEMENT
SUMMER 2020	Kenneth Tjhia	Undergraduate Student Research Award (USRA)	NSERC
SUMMER 2020	Jing Li	Lassonde Undergraduate Research Award (LURA)	LASSONDE SCHOOL OF ENGINEERING
SUMMER 2019	Kenneth Tjhia	Undergraduate Student Research Award (USRA)	NSERC
SUMMER 2019	Mahmoud Alsaeed	Lassonde Undergraduate Research Award (LURA)	LASSONDE SCHOOL OF ENGINEERING
DEC 2018	Tilemachos Pechlivanoglou	IEEE BigData 2018 Student Travel Award	IEEE INTERNATIONAL CONFERENCE ON BIGDATA 2018
JUN 2018	Abdullah Sawas, Abdullah Abuolaim, Mahmood Afifi	IEEE MDM 2018 Best Paper Award	19TH IEEE INTERNATIONAL CONFERENCE ON MOBILE DATA MANAGEMENT

SERVICE (COMMITTEE MEMBERSHIP, EDITORIAL ACTIVITY, LEADERSHIP)

COMMITTEE MEMBERSHIP

COMMUNITY LEVEL (GREATER TORONTO AREA)

2018 – 2019	Ad hoc Program Advisory Committee (PAC) Member, Durham College Honors Bachelor in Artificial Intelligence
2018 – 2019	Judge, American Statistical Association DataFest Challenge at University of Toronto (DataFest@UofT)

UNIVERSITY LEVEL (YORK UNIVERSITY)

2017 – 2020	Organizer, Grad Course of NSERC CREATE Data Analytics and Visualization (DAV)
2018 – 2019	Organizer, Hackathon of NSERC CREATE Dependable Internet of Things Applications (DITA)
2018 – 2019	Organizer, Integrative Course of NSERC CREATE Dependable Internet of Things Applications (DITA)

FACULTY LEVEL (LASSONDE SCHOOL OF ENGINEERING)

2021 – 2022	Member, The Lassonde College of Internal Peer Review
2019 – 2020	Judge, Lassonde Undergraduate Research Conference
2018 – 2019	Project Supervisor, ENG4000 (Final Year Undergraduate Project) Topic: Creating a Database Solution for the UNESCO Chair Research Team: Andrew Ferreira, Asma Hassan, Dan Sheng, Eric Dao, Shahriar Ahmed Dhrubo

DEPARTMENT LEVEL (ELECTRICAL ENGINEERING AND COMPUTER SCIENCE)

2020 – 2021	Member, Graduate Executive Committee
2020 – 2021	Coordinator, Department Seminars (Computer Science)
2020 – 2021	Member, Industry Partnership Program Committee
2020 – 2021	Member, Faculty Hiring Search Committee (Computer Science – ML/AI)
2020 – 2021	Member, Graduate Admissions Committee
2019 – 2020	Coordinator, Department Seminars (Computer Science)
2019 – 2020	Member, Faculty Hiring Search Committee (Computer Science – AI/ML/Vision)
2019 – 2020	Member, Tenure & Promotion Adjudication Committee
2019 – 2020	Member, Industry Partnership Program Committee
2018 – 2019	Member, Faculty Hiring Search Committee (Computer Security)
2018 – 2019	Member, Industry Partnership Program Committee
2018 – 2019	Member, Graduate Admissions Committee
2017 – 2018	Member, Markham Campus Planning Committee
2017 – 2018	Member, Industry Partnership Program Committee
2017 – 2018	Member, Tenure & Promotion File Preparation Committee (FPC)
2017 – 2018	Member, Graduate Admissions Committee

REVIEWER FOR RESEARCH FUNDING AGENCIES

2020	FONDECYT, Chile (The National Fund for Scientific and Technological Development)
2019 – 2020	National Science and Engineering Research Council Discovery Grants (NSERC DG)
2018 – 2020	Mitacs Accelerate Entrepreneur (MITACS ACCELERATE)
2017	The Canada-Israel Industrial Research and Development Foundation (CIIRDF)

ACADEMIC JOURNAL EDITORIAL ACTIVITIES (REVIEWER / EXTERNAL REVIEWER)

2019/8 – PRESENT	Associate Editor, Computational Intelligence (COIN)
2021/01 – PRESENT	Reviewer, ACM Transactions on Spatial Algorithms and Systems (TSAS)

2021/01 - PRESENT	Reviewer, IEEE Transactions on Network Science and Engineering (TNSE)
2020/06 – PRESENT	Reviewer, IEEE Transactions on Computing (TC)
2020/01- PRESENT	Reviewer, IEEE Transactions on Intelligent Systems Technology (TIST)
2016/5 – 2019/8	Reviewer, IEEE Transactions on Knowledge and Data Engineering (TKDE)
2017/4 – 2019/6	Reviewer, ACM Transactions on the Web (TWEB)
2015/10 – 2019/5	Reviewer, ACM Transactions on Knowledge Discovery from Data (TKDD)
2019/8 – 2019/11	Reviewer, Journal of Combinatorial Optimization (JOCO)
2018/4 – 2018/6	Reviewer, IEEE Internet of Things (IoT)
2018/8 – 2018/9	Reviewer, IEEE Networking Letters (NL)
2014/6 – 2017/9	Reviewer, The Proceedings of the VLDB Endowment (PVLDB)
2017/5 – 2017/6	Reviewer, Springer Machine Learning (MACH)
2017/4 – 2017/5	Reviewer, Computer and Informatics (CAI)
2012/9 – 2020/01	Reviewer, Social Network Analysis and Mining (SNAM)
2016/7 – 2016/9	Reviewer, Internet Mathematics (IM)
2016/1 – 2016/3	Reviewer, Applied Network Science (ANS)
2015/2 – 2015/11	Reviewer, Knowledge and Information Systems (KAIS)
2014/12 – 2015/1	Reviewer, ACM Transactions on Internet Technology (TOIT)
2014/9 – 2014/10	Reviewer, IEEE Journal of Selected Topics in Signal Processing (J-STSP)
2014/1 – 2014/3	Reviewer, ACM Transactions on Database Systems (TODS)
2013/5 – 2013/6	Reviewer, Frontiers of Computer Science (FCS)
2012/12 – 2013/2	Reviewer, Information Sciences (IS)
2012/7 – 2012/9	Reviewer, IEEE Transactions on Information Forensics and Security (TIFS)
2007/5 – 2011/4	Reviewer, International Journal on Artificial Intelligence Tools (IJAIT)
2006/6 – 2006/7	Reviewer, Information Systems (IS)

CONFERENCE PROGRAM COMMITTEE MEMBER / REVIEWER

2021	Program Committee Member, 27th ACM International Conf. on Knowledge Discovery & Data Mining (ACM KDD 2021)
2021	Program Committee Member, 44th Intern. Conf. on Research and Development in Information Retrieval (ACM SIGIR 2021)
2021	Program Committee Member, 14th ACM International Conference on Web Search and Data Mining (ACM WSDM 2021)
2021	Program Committee Member, 30th ACM International Conf. on Information and Knowledge Management (ACM CIKM 2021)
2021	Program Committee Member, 22nd IEEE International Conference on Mobile Data Management (IEEE MDM 2021)
2020	Program Committee Member, 29th ACM International Conf. on Information and Knowledge Management (ACM CIKM 2020)
2020	Program Committee Member, 43rd Intern. Conf. on Research and Development in Information Retrieval (ACM SIGIR 2020)
2020	Program Committee Member, 1st Asia-Pacific chapter of the Association for Computational Linguistics and the 9th International Joint Conference on Natural Language Processing (AACL-IJCNLP 2020)
2020	Program Committee Member, 30th International Conference on Computer Science and Software Engineering (CASCON 2020)
2019	Program Committee Member, 29th International Conference on Computer Science and Software Engineering (CASCON 2019)
2018	Program Committee Member, 25th ACM Conference on Information and Knowledge Management (ACM CIKM 2018)
2018	Reviewer, 44th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2018)
2018	Program Committee Member, 23rd IEEE Symposium on Computers and Communications (IEEE ISCC 2018)
2017	Program Committee Member, 26th ACM Conference on Information and Knowledge Management (ACM CIKM 2017)
2017	Reviewer, 16th International Symposium on Experimental Algorithms (SEA 2017)
2017	Program Committee Member, 22nd IEEE Symposium on Computers and Communications (IEEE ISCC 2017)
2015	Reviewer, 31st IEEE International Conference on Data Engineering (IEEE ICDE 2015)
2015	Reviewer, 18th International Conference on Extending Database Technology (EDBT 2015)
2014	Reviewer, 17th International Conference on Extending Database Technology (EDBT 2014)
2014	Reviewer, 20th ACM International Conference on Knowledge Discovery and Data Mining (ACM KDD 2014)
2013	Reviewer, 19th ACM International Conference on Knowledge Discovery and Data Mining (ACM KDD 2013)
2012	Reviewer, 23rd ACM Conference on Hypertext and Social Media (ACM HyperText 2012)

2010 Reviewer, 19th International World Wide Web Conference (WWW 2010)
2010 Reviewer, 19th ACM Conference on Information and Knowledge Management (ACM CIKM 2010)
2010 Reviewer, 21st ACM Conference on Hypertext and Social Media (ACM HyperText 2010)
2008 Reviewer, 14th ACM International Conference on Knowledge Discovery and Data Mining (ACM KDD 2008)
2007 Reviewer, 13th ACM International Conference on Knowledge Discovery and Data Mining (ACM KDD 2007)
2005 Reviewer, 4th International Semantic Web Conference (ISWC 2005)
2004 Reviewer, 3rd International Semantic Web Conference (ISWC 2004)

WORKSHOP PROGRAM COMMITTEE MEMBER / REVIEWER

2011 Program Committee Member, 3rd International Workshop on Search and Mining User-generated Content (ACM SMUC 2011)
2010 Program Committee Member, 2nd International Workshop on Search and Mining User-generated Content (ACM SMUC 2010)
2009 Program Committee Member, 1st International Workshop on Monitoring Social Media (MSM 2009)

LEADERSHIP

2019 – 2021 **Local Organizing Committee, IEEE MDM 2021**

As a member of a local organizing committee, I coordinated the successful efforts to host the 22nd IEEE International Conference on Mobile Data Management (IEEE MDM 2021) in Toronto, Canada. In particular, I brought a team together, coordinated organizing efforts, prepared the bidding slide deck and delivered the bidding presentation to the conference steering committee. The IEEE MDM series of conferences, since its debut in 1999, has established itself as a prestigious forum for the exchange of innovative and significant research results in mobile data management. The conference provides unique opportunities to bring researchers, engineers, and practitioners together to explore new ideas, techniques, and tools, and exchange experiences. Comprising both research and industry tracks, it serves as an important bridge between academic researchers and industry researchers. Along with the presentations of research publications, it also serves as a meeting place for technical demonstrations, workshops, advanced seminars, panel discussions as well as PhD forum and Industrial forum to cater PhD students and industrial developers. The conference focuses on research contributions in data management in mobile, ubiquitous and pervasive computing.

2017 – 2019 **New Graduate Program, Proposal Lead, Professional Master of Data Science Program**

The Lassonde School of Engineering (in collaboration with other Faculties at York University) has prepared a proposal for a new Professional Master of Data Science program. The program is designed to meet a rapidly growing demand for professionals who can work effectively with data at scale – data scientists – and to train leaders in data science that can assume key positions in business, government, or non-profit organizations. When I joined York University, I was tasked by the Chair of the Department (Prof. Richard Wildes) to prepare a proposal for a new Professional Master of Data Science program. The proposal was reviewed and proof-read by the Chair of the department. The program is still at works, with efforts now coordinated at the Faculty level.

2017 – 2019 **New Undergraduate Program, Member of Working Group, Industrial BSc Program**

The EECS department has developed an industry partnership option for the Honours B.A. and Honours B.Sc. programs in computer science. Part of the education for students in this option is delivered through experiential learning at an industry partner's site. An industry partnership option allows students to receive a complete academic education, while at the same time gain valuable work experience that will enhance their knowledge on technical issues and improve their post-graduation employability.

2017 – 2018 **New Markham Center Campus (MCC), Member of Working Group, EECS @ Markham**

York University is in the process of establishing a new campus in Markham named Markham Center Campus (MCC), with a planned opening date of fall 2023 (originally planned for Fall 2021). With a planned initial target size of 4,000 students and a long-term planned size of 20,000, Information Technology is touted as one of the key program concentrations at this new campus. Planning for Markham has been underway for some time, and Lassonde is part of the planning process. The EECS department established a working group to respond to this opportunity. The goal of this document is to provide a short 'white paper' to put forth both the constraints and opportunities present at Markham, and to help frame the EECS response to this opportunity.