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**Dr. Joerg Evermann**

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## Research and Teaching Interests

- Data Management and Data Integration
- Business Processes and Workflow Management
- Data Analysis and Predictive Modeling
- Systems Analysis and Conceptual Modelling

## Academic Positions

- Associate Professor, Faculty of Business Administration, Memorial University of Newfoundland (since September 2009, tenured September 2012)
  - Cross-appointment to the Department of Computer Science, Memorial University of Newfoundland (since September 2009)
- Assistant Professor, Faculty of Business Administration, Memorial University of Newfoundland. (November 2007 – September 2009)
- Lecturer in Information Systems, School of Information Management, Victoria University of Wellington. (July 2003 – November 2007)

## Education

- **Ph.D.**, The University of British Columbia, Faculty of Commerce and Business Administration, Management Information Systems, 1999 – 2004 (thesis completed December, 2003)
  - **Thesis:** Using Design Languages for Conceptual Modeling: The UML Case
  - **Committee Members:** Dr. Yair Wand, Dr. Carson Woo, Dr. Gail Murphy
- **Diplom Wirt.-Inf.**, University of Münster, 1992 – 1998 ( German post graduate degree in business computing)
  - **Thesis:** Process oriented development and implementation of an interface system to link decentralized MES with centralized PPC systems

## Teaching Experience

### With MUN

- Modelling and Implementing Business Processes (BUSI 2710): 2011 – 2020
- Management Information Systems (BUSI 3700): 2008, 2009, 2011, 2020
- Introduction to Management Information Systems (BUSI8205, MBA): 2012, 2013

- Quantitative Methods in Management Research (BUSI 9903, PhD): 2008, 2009, 2010, 2012
- Special Topics in Information Systems (BUSI 9918, PhD): 2011 (Workflow Management)
- Research Methods in Management Research (BUSI 9901, PhD): 2008, 2009
- Management Science (BUSI 4401): 2008, 2009

### **With VUW**

- Multimedia Applications in Electronic Commerce (ELCM 202): 2002
- Business to Business Electronic Commerce (ELCM 301): 2003, 2004
- System Analysis (INFO 212): 2004
- Modern System Analysis (INFO 222): 2005, 2006, 2007
- Internet Computing Databases (ELCM 306): 2004
- Internet Development Environments (ELCM 353): 2005, 2006, 2007
- Advanced Database Programming (INFO 312): 2004
- Research Methods in Information Systems (INFO 403): 2005, 2006, 2007

### **With UBC**

- Systems Analysis and Design (COMM 436) : 2001, 2002 (summer and fall), 2003

### **With Hochschule Osnabrück**

- IT Leadership (one-week block seminar, May 2018)
- Bitcoin & Co: Blockchain Technology from First Principles to Business Applications, Governance and Unsolved Issues (one-week block seminar, May 2019)

### **Executive Education**

- Business Process Management (2-day seminar at Gardiner Centre, Nov 2012)

### **Graduate Supervision**

- Asghar Mohammadi (MSc (project), Process prediction with Deep Learning, Aug-Dec 2016)
- Mehdi Razeghin (MSc, Preference-based Web Service Composition, Sep 2011 – May 2014)
- Muhammad Nasir (MSc, Visualization of Ontology Alignment, Jan 2010 – Apr 2014)
- Farhana Alam (MSc, Aspect-Oriented Modelling, Aug 2008 – Sep 2010)
- Jennifer Fang (MSc, Cognitive Quality of Ontologies, July 2007 – April 2009, Grade A with distinction)
- Mary Tate (PhD, E-Service Quality, successfully completed September 2010)

- Richard Williams (PhD, Enterprise Architecture, Feb 2006 – Dec 2007)
- Mark Wilson (PhD, Visual Languages, Feb 2007 – Nov 2007)
- Riddhi Mistry (Honours, Philosophy of Science in IS development, Feb 2007 – Nov 2007)
- Haidir Halimi (Honours, Conceptual Modelling, Feb 2007 – Nov 2007)
- Jennifer Fang (Honours, Cognitive Quality of Ontologies, Feb 2006 – Nov 2006)
- Brady Thomas (Honours, Virtual worlds, Feb 2007 – Nov 2007)
- Matthew Thomas (Honours, Database integration, Feb 2007 – Nov 2007)

## Professional Experience

- Technical Lead, Joint project of the MIS Division, Faculty of Commerce, UBC, and Build-Direct.com for development of a logistics system for B2B electronic commerce, Aug 2002 – Mar 2003.
- Management & SAP Consultant, KPMG Consulting GmbH, Berlin, Germany, 1998 – 1999 (Specialization in SAP Base, SAP Financials and SAP Engineering Data Management)
- Systems Analyst, ABB Power Plant Division AG, Mannheim, Germany, 1997 – 1998
- Programmer & Systems Analyst, HÖMA Maschinenbau GmbH, Hörstel Germany, 1990–1995 (part time)

## Publications (Journals)

(Journal impact factors current as of Sep 14, 2020)

### 2020

1. Evermann, J. and Kim, H.: Workflow Management on Proof-of-Work Blockchains - Implications and Recommendations. *Springer Nature Computer Science*, accepted October 28, 2020.
2. Evermann, J. and Kim, H.: Workflow Management on BFT Blockchains. *EMISA Journal*, accepted June 29, 2020.
3. Mehdiyev, N., Evermann, J., Fettke, P.: A Novel Business Process Prediction Model Using a Deep Learning Method. *BISE Business and Information Systems Engineering.*, 62(2), 143–157. (Journal Impact Factor 5.837)

### 2017

4. Evermann, J., Rehse, J.-R., Fettke, P.: Predicting Process Behaviour Using Deep Learning. *Decision Support Systems.* 10, 129–140. (Journal Impact Factor 4.721)

## 2016

5. Evermann, J. and Tate, M.: Assessing the predictive performance of structural equation model estimators. *Journal of Business Research*. 69(10), 4565–4582. (Journal Impact Factor 4.874)
6. Evermann, J.: Scalable Process Discovery using Map-Reduce. *IEEE Transactions on Services Computing*. 9(3), 469–481. (Journal Impact Factor 6.112)
7. Jewer, J., and Evermann, J.: Enhancing Learning Outcomes through Experiential Learning: Using Open-Source Systems to Teach Enterprise Systems and Business Process Management. *Journal of Information Systems Education (JISE)*. 26(3), Summer 2015.

## 2015

8. Tate, M., Evermann, J., and Gable, G.: An Integrated Framework for Theories of Individual Attitudes Towards Technology. *Information & Management*. 52, 710–726. (Journal Impact Factor 5.155)
9. Raad, E. and Evermann J.: The Role of Analogy in Ontology Alignment: A Study on LISA. *Cognitive Systems Research* 33, 1–16. (Journal Impact Factor 1.902)

## 2014

10. Evermann, J. and Tate, M.: Bayesian Structural Equation Models for Cumulative Theory Building in Information Systems – A Brief Tutorial using BUGS and R. *Communications of the Association for Information Systems*, 34 (1), article 76.
11. Bera, P. and Evermann, J.: Guidelines for Using UML Association Classes and their Effect on Domain Understanding in Requirements Engineering. *Requirements Engineering Journal*, (19) 1, 63–80. (Journal Impact Factor 2.282)

## 2013

12. Rönkkö, M. and Evermann, J.: A Critical Examination of Common Beliefs about Partial Least Squares Path Modeling, *Organizational Research Methods* 16, 425–448. (Journal Impact Factor 5.705)

## 2011

13. Evermann, J. and Tate, M. Fitting Covariance Models for Theory Generation. *Journal of the Association for Information Systems*. 12(9), 632-661. (Journal Impact Factor 4.644)

## 2010

14. Evermann, J. Multiple group analysis using the `sem` package in the R system. *Structural Equation Modeling – A Multidisciplinary Journal*. 17(4), 677–702. (Journal Impact Factor 3.638)

15. Tate, M. and Evermann, J. The End of ServQual in Online Services Research: Where to from here? *e-Service Journal* 7(1), 60–85.
16. Evermann, J. and Fang, J. Evaluating Ontologies: Towards a Cognitive Measure of Quality. *Information Systems*. 35(4), 391-403. (Journal Impact Factor 2.466)

*"Thank you for the very intriguing and stimulating piece of work! It has definitely contributed quite a new perspective to ontology evaluation – the field that has been searching for new fresh ideas for some time."* — Dr. Natasha Noy, Stanford University

## 2009

17. Evermann, J. Theories of Meaning in Schema Matching. In: Erickson, J. (ed.) *Database Technologies: Concepts, Methodologies, Tools, and Applications*, IGI Global, Hershey, PA. (republishment of item 22, not separately reviewed)
18. Evermann, J. Theories of Meaning in Schema Matching: An Exploratory Study. *Information Systems*. Vol 34, 28–44, Jan 2009. (Journal Impact Factor 2.466)
19. Evermann, J. and Wand, Y. Ontology Based Object-Oriented Domain Modeling: Representing Behaviour. *Journal of Database Management*, Vol 20, No 1, pp 48–77, Jan 2009.
20. Evermann, J. A UML and OWL Description of Bunge’s Upper-Level Ontology Model. *Software and Systems Modeling*. Vol 8, No 2, 235–249, February 2009.

## 2008

21. Evermann, J. A Cognitive Semantics for the Association Construct. *Requirements Engineering Journal*, Vol 13, No 3, 167–186, 2008. (Journal Impact Factor 2.282)
22. Evermann, J. Theories of Meaning in Schema Matching: A Review. *Journal of Database Management*. Vol 19, No 3, 55–83. 2008
23. Evermann, J. An Exploratory Study of Database Integration Processes. *IEEE Transactions on Knowledge and Data Engineering*. Vol 20, No 1, Jan 2008, 99–115. (Journal Impact Factor 4.935)

## 2007

24. Kim, H.M., Sengupta, A. and Evermann, J. MOQ: Web-Services Ontologies for QoS and General Quality Evaluations. *International Journal of Metadata, Semantics, and Ontologies*. Vol 2, No 5, 195–200. 2007. (republishment of item 50, not separately refereed)
25. Evermann, J. A Meta-Level Specification and Profile for AspectJ in UML. *Journal of Object Technology*. Vol 6, No 7, Aug 2007.
26. Evermann, J., Hooper, V., Yoong, P. et al. The Discovery Camp: A Talent Fostering Initiative for Developing Research Students. *Journal of Issues in Informing Science and Information Technology*, Vol 4, 211–255, 2007. (republishment of item 45, not separately refereed)

## 2006

27. Evermann, J. and Wand, Y. Ontological Modelling Rules for UML: An Empirical Assessment, *Journal of Computer Information Systems*, Vol 46, No 5, Fall 2006, 14–29. (Journal Impact Factor 1.582)

## 2005

28. Evermann, J. Towards a Cognitive Foundation for Knowledge Representation. *Information Systems Journal*. Vol 15, pp 147–178. 2005. (Journal Impact Factor 4.188)
29. Evermann, J. and Wand, Y. Ontology-Based Object–Oriented Business Modelling: Fundamental Concepts. *Requirements Engineering Journal*, Vol 10, Number 2, 2005, 146–160. (Journal Impact Factor 2.282)
30. Evermann, J. and Wand, Y. Towards formalizing domain modeling semantics in language syntax. *IEEE Transactions on Software Engineering*, Vol 31, No 1, Jan 2005, pp 21–37. (Journal Impact Factor 6.112)

## Publications (Conference Proceedings)

### 2020

1. Evermann, J.: Adapting Workflow Management Systems to BFT Blockchains – The YAWL Example. Proceedings of the 1st International Frontiers of Process Aware Information Systems (FoPAS), October 5, 2020. (Accepted September 8, 2020)

### 2019

2. Jewer, J. and Evermann, J.: A Systems Model of IS Success Using Agent-Based Simulation (work in progress). *Workshop on Information Technology Adoption and Diffusion (DIGIT)*, Munich, Germany, December 15, 2019.

### 2017

3. Mehdiyev, N., Fettke, P. and Evermann, J.: A Multi-Stage Deep Learning Approach for Business Process Event Prediction. *19th Conference on Business Informatics (CBI)*, Thessaloniki, Greece, July 24–27, 2017.
4. Evermann, J., Rehse, J.-R., and Fettke, P.: XES Tensorflow – Process Prediction using the Tensorflow Deep-Learning Framework. *Conference on Advanced Information Systems Engineering (CAiSE) Forum*, Essen, Germany, June 12–16, 2017.

### 2016

5. Lukyanenko, R., Samuel, B., Evermann, J. and Parsons, J.: Toward Artifact Sampling in IS Design Research. *Workshop on Information Technology and Systems (WITS)*, Dublin, Ireland, 2016.

6. Evermann, J., Rehse, J.-R., and Fettke, P.: Process Discovery from Event Stream Data in the Cloud – A Scalable, Distributed Implementation of the Flexible Heuristics Miner on the Amazon Kinesis Cloud Infrastructure. *Workshop on Business Process Monitoring and Performance Analysis in the Cloud (CloudBPM @ CloudCOM 2016 Conference)*.
7. Evermann, J., Rehse, J.-R., and Fettke, P.: A Deep Learning Approach for Predicting Process Behaviour at Runtime. *International Workshop on Runtime Analysis of Process-Aware Information Systems (PRAISE @ BPM 2016 Conference)*.

## 2015

8. Evermann, J., Thaler, T., and Fettke, P.: Clustering Traces Using Sequence Alignment. *Proceedings of the 2015 Workshop on Business Process Intelligence. Springer Lecture Notes in Business Information Processing*. 256, 179–190.
9. Lukyanenko, R., Evermann, J., and Parsons, J.: Guidelines for Establishing Instantiation Validity in IT Artifacts: A Survey of IS Research. *Design Science Research in Information Systems and Technologies Conference (DESRIST)*, May 21-22, Dublin, Ireland.

## 2014

10. Evermann, J. and Tate, M.: Comparing Out-of-Sample Predictive Ability of PLS, Covariance, and Regression Models. *Proceedings of the 35th International Conference on Information Systems (ICIS)*, Auckland, New Zealand, December 2014.
11. Jewer, J. and Evermann, J.: Experiential Learning with an Open-Source Enterprise System. *Proceedings of the 20th Americas Conference on Information Systems (AMCIS)*, Aug 7-10, Savannah, GA.
12. Lukyanenko, R., Parsons, J. and Evermann, J.: Instantiation Validity in IS Design Research. *Design Science Research in Information Systems and Technologies Conference (DESRIST)*, May 22-23, Miami, FL.
13. Evermann, J. and Assadipour, G.: Big Data meets Process Mining: Implementing the Alpha Algorithm with Map-Reduce. *ACM Symposium on Applied Computing*, March 24–28, Gyeongju, Korea.
14. Raad, E., and Evermann, J.: Is Ontology Alignment like Analogy? Knowledge Integration with LISA. *ACM Symposium on Applied Computing*, March 24–28, Gyeongju, Korea.

## 2013

15. Nasir, M., Hoerber, O., and Evermann, J.: Supporting Ontology Alignment Tasks with Edge Bundling, *Proceedings of the i-KNOW International Conference on Knowledge Management and Knowledge Computing*, Graz, Austria.
16. Evermann, J.: Developing a Realistic Workflow Management Environment for Teaching: An Interface from YAWL to OpenERP. *Proceedings of the YAWL User Group Symposium*, St. Augustin, Germany, June 7th.

17. Evermann, J., Furey, M. and Hussey, T.: Using YAWL in a Business Undergraduate Course on Process Management: An Experience Report. *Proceedings of the YAWL User Group Symposium*, St. Augustin, Germany, June 7th.

## 2012

18. Evermann, J. and Tate, M. An ontology of structural equation models with application to computer self-efficacy. *Proceedings of the 33rd International Conference on Information Systems (ICIS)*, Orlando, FL, December 2012.
19. Evermann, J. and Tate, M. A brief note of caution on covariance-equivalent models in Information Systems. *Proceedings of the 33rd International Conference on Information Systems (ICIS)*, Orlando, FL, December 2012.
20. Evermann, J. and Tate, M. Comparing the Predictive Ability of PLS and Covariance Analysis. *Proceedings of the 33rd International Conference on Information Systems (ICIS)*, Orlando, FL, December 2012.
21. Evermann, J. Applying Cognitive Principles of Similarity to Data Integration – The Case of SIAM. *Proceedings of the 18th Americas Conference on Information Systems (AMCIS)*, Seattle, WA, August 2012.
22. Evermann, J. and Tate, M. Bayesian Structural Equation Models for Cumulative Theory Building in Information Systems. *Proceedings of the 18th Americas Conference on Information Systems (AMCIS)*, Seattle, WA, August 2012.

## 2011

23. Lukyanenko, R. and Evermann, J. Using Cognitive Theories to Support Data Integration. *Proceedings of the 17th Americas Conference on Information systems (AMCIS)*, Detroit, MI, August 2011.
24. Nasir, M., Hoeber, O., and Evermann, J. Effective Visualization of Ontology Mappings using Edge Bundling. *Poster at the Graphics Interface Conference*, St. John's, NL, May 2011. (editorially reviewed)
25. Evermann, J., Fiech, A., and Alam, F.E. A Platform-Independent UML Profile for Aspect-Oriented Development. *Proceedings of the Fourth International C\* Conference on Computer Science and Software Engineering (C3S2E)*, Montreal, QC, May 2011.

## 2010

26. Tate, M. and Evermann, J. Obstacles to building effective theory about attitudes and behaviours towards technology. *Workshop on Information Systems Foundations*, Australia National University, Canberra, ACT, Australia, 30 Sept, 2010.
27. Evermann, J. and Tate, M. Testing Models or Fitting Models? Identifying Model Misspecification in PLS. *Proceedings of the 31st International Conference on Information Systems, ICIS, St. Louis, MS, December 2010.*



28. Parsons, J., Evermann, J. and Dobing, B. Understanding Use Case-Driven Development in the UML. *Proceedings of the 31st International Conference on Information Systems, ICIS, St. Louis, MS, December 2010.*
29. Evermann, J. Contextual Factors in Database Integration — A Delphi Study. *Proceedings of the 29th International Conference on Conceptual Modeling (ER 2010), Vancouver, BC, November 2010.*

## 2009

30. Evermann, J. and Tate, M. Constructs in the Mist: The Lost World of the IT Artifact. *Proceedings of the 8th JAIS Theory Development Workshop at ICIS 2009, Phoenix, AZ*
31. Evermann, J. and Tate, M. Building Theory from Quantitative Studies, or, How to Fit SEM Models. *Proceedings of the 30th International Conference on Information Systems (ICIS), Phoenix, AZ, December 2009.*
32. Evermann, J. and Tate, M. Constructs in the Mist: The Lost World of the IT Artifact. *Proceedings of the 30th International Conference on Information Systems (ICIS), Phoenix, AZ, December 2009.*
33. Tate, M. and Evermann, J. Perceptive Users with Attitudes: Some Heuristics on Theorizing. *Proceedings of the 30th International Conference on Information Systems (ICIS), Phoenix, AZ, December 2009.*
34. Tate, M. and Evermann, J. Descendents of ServQual in Online Services Research: The End of the Line? *Proceedings of the 15th Americas Conference on Information Systems AMCIS, San Francisco, CA, Aug 2009.*
35. Alam, F., Evermann, J. and Fiech, A. Modeling for Dynamic Aspect-Oriented Development. *Proceedings of the C3S2E-9 Conference, Montreal, May 2009.*

## 2008

36. Tate, M., Evermann, J., Hope, B. Old Theory and New Service Quality: An Exploratory Study of the Nature and Nomological Net of Online Service Quality and Continuing Use using Information Systems Theory. *Proceedings of the Australasian Conference on Information Systems (ACIS), Christchurch, New Zealand, December 3-5, 2008.*
37. Tate, M.; Evermann, J.; Hope, B.; Barnes, S. Stakeholder expectations of service quality in a university web portal. In: Oliver, D.; Romm-Livermore, C. and Sudweeks, F. (eds.) *Self-service in the Internet Age: Expectations and Experiences*. Springer-Verlag, Berlin, 2008.
38. Evermann, J. and Halimi, H. Associations and Mutual Properties – An Experimental Assessment. *Proceedings of the Americas Conference on Information Systems AMCIS, Toronto, August 2008.*
39. Evermann, J. and Mistri, R. System Analysis as Scientific Inquiry. *Proceedings of the Americas Conference on Information Systems AMCIS, Toronto, August 2008.*

## 2007

40. Fang, J. and Evermann, J. Evaluating Ontologies – Towards a Cognitive Measure of Quality. *Proceedings of the Workshop on Vocabularies, Ontologies, and Rules for the Enterprise (VORTE), Annapolis, MD, October 2007.*
41. Evermann, J. Sequence Analysis in Process Tracing. *Proceedings of the Americas Conference on Information Systems (AMCIS), Keystone, CO, Aug 2007.*
42. Evermann, J., Ferreira, J., and Haggard, G. Improving Mutual Understanding of Development Artifacts: A Semiotics Based Approach. *Proceedings of the Americas Conference on Information Systems (AMCIS), Keystone, CO, Aug 2007.*
43. Tate, M., Hope, B., Evermann, J., and Barnes, S. Perceived Online Service Quality: Latent Dimensions and Ontological Implications. *Proceedings of the Pacific Asia Conference on Information Systems (PACIS), Auckland, NZ, July 2007.*
44. Evermann, J. A Meta-Level Specification and Profile for AspectJ in UML. *Proceedings of the Workshop on Aspect Oriented Modeling (AOM) at AOSD 2007.*
45. Evermann, J., Hooper, V., Yoong, P. et al. The Discovery Camp: A Talent Fostering Initiative for Developing Research Students. *Proceedings of INSITE 2007.*
46. Tate, M., Evermann, J., Hope, B. and Barnes, S. Perceived Service Quality in a University Web Portal: Revising the E-Qual Instrument. In *Proceedings of the Hawaii International Conference on System Sciences HICSS-40*, January 3–6, 2007, Hawaii.

## 2006

47. Evermann, J. Organizational Paradigms and Organizational Modelling. In: *Proceedings of the Workshop on Business and IT Alignment (BUSITAL) at CAiSE 2006*, Luxembourg, June 2006.

## 2005

48. Evermann, J. The Association Construct in Conceptual Modeling – An Analysis using the Bunge Ontological Model. In: *Proceedings of the 17th International Conference on Advanced Information Systems Engineering, CAiSE 2005*, Porto, Portugal, June 2005, 33–47.
49. Evermann, J. Towards Natural Language Semantics for the Association Construct. In: *Proceedings of the Forum for the 17th International Conference on Advanced Information Systems Engineering, CAiSE 2005*, Porto, Portugal, June 2005, 77–82.
50. Kim, H., Sengupta, A. and Evermann, J. MOQ: Web Services Ontologies for QoS and General Quality Evaluations. In *Proceedings of the 13th European Conference on Information Systems, ECIS 2005*, Regensburg, Germany, May 2005.

## 2004

51. Evermann, J. The Science of IS Development – Implications for Applications. In *Proceedings of the 3rd Symposium on Research in System Analysis and Design (AIS SIGSAND), St. John's, Canada, June 12-14, 2004*. (not refereed)

## 2001

52. Evermann, J. and Wand, Y. An ontological examination of object interaction in conceptual modeling. In *Proceedings of the Workshop on Information Technologies and Systems WITS'01, New Orleans, December 15–16, 2001*.
53. Evermann, J. and Wand, Y. Towards ontologically based semantics for UML constructs. In H. Kunii, S. Jajodia, and A. Solvberg, editors, *Proceedings of the 20th International Conference on Conceptual Modeling, Yokohama, Japan, Nov. 27–30, 2001*, ER 2001.

## Publications (Book Chapters)

### 2009

1. Evermann, J. Theories of Meaning in Schema Matching. In: Erickson, J. (ed.) *Database Technologies: Concepts, Methodologies, Tools, and Applications*, IGI Global, Hershey, PA. (republishing of Journal publications item 22, not separately reviewed)

### 2008

2. Tate, M.; Evermann, J.; Hope, B.; Barnes, S. Stakeholder expectations of service quality in a university web portal. In: Oliver, D.; Romm-Livermore, C. and Sudweeks, F. (eds.) *Self-service in the Internet Age: Expectations and Experiences*. Springer-Verlag, Berlin, 2008.

### 2005

3. Evermann, J. Thinking Ontologically – Conceptual versus design models in UML. In: Rosemann, M. and Green, P. (eds.) *Ontologies and Business Analysis*. Idea Group Publishing, 2005, 82–104.

## Working Papers (non-refereed)

- Evermann, J. Conceptual vs. Design Models: An Empirical Comparison. MIS Division, University of British Columbia, Working Paper 02-MIS-005.
- Evermann, J. Ontological Analysis of UML constructs. MIS Division, University of British Columbia, Working Paper 00-MIS-013.

## Technology Expertise (Research or Teaching)

- Data Analytics
  - Tensorflow, Python
- Workflow Management
  - BPMN, BPEL, YAWL, EPC, Petri nets
- SOA Technologies (Service Oriented Architecture)
  - WSDL, SOAP, XML-RPC, UDDI
- Ontology/Semantic Technologies
  - OWL, RDF, Description Logics
- Web Technologies
  - XML, XML Schema, XSLT, XPath, XQuery, XSL-FO, SAX, DOM, SVG, SMIL
- System Development
  - UML, ERD, SQL, AspectJ
- General
  - Python, Java, Eclipse, R, SPSS, JAGS, OpenBUGS

## Service to the Academic Community

- Tutorial on Bayesian Estimation of Structural Equation Models using BUGS and R (1.5 or 3 hours), presented at:
  - National University of Singapore (Dec 2014)
  - Australasian Conference on Information systems (ACIS) (Dec 2014)
- Tutorial on Covariance Based Structural Equation Modelling (3, 4 or 8 hours), presented at:
  - Australasian Conference on Information Systems (ACIS) 2008
  - Americas Conference on Information Systems (AMCIS) 2009, 2011
  - Victoria University of Wellington (December 2008)
  - Memorial University of Newfoundland (January 2009)
  - University of Münster, Germany (April 2010)
  - City University of Hong Kong (May 2010)
  - National University of Singapore (May 2010)
  - University of British Columbia (June 2010)
  - York University (June 2010)
  - Queensland University of Technology (November 2010)

- Associate Editor for Communications of the AIS (since July 2015)
- Guest Editor for Communications of the AIS for Special Issue on the Literature Review in Information Systems Research (2014)
- Guest Associate Editor for MIS Quarterly, 2011
- Conference Co-Chair for the 2021 International Conference on Conceptual Modeling (ER 2021), St. John's, Canada
- Track Co-Chair for the Research Methods track at the International Conference on Information Systems (ICIS) 2014
- Track Co-Chair for the Research Methods track at the Americas Conference on Information Systems (AMCIS) 2013
- Track Co-Chair for the Research Methods track at the Pacific-Asia Conference on Information Systems (PACIS) 2011
- Mini-track Co-Chair for mini-track "New Approaches to Quantitative Analysis" at the Americas Conference on Information Systems (AMCIS) 2012
- Doctoral Consortium Co-Chair for the DESRIST 2016 Conference
- Doctoral Consortium Co-Chair for the MODELS 2011 Conference
- Associate editor for the Research Methods Track at the International Conference on Information Systems (ICIS) 2011, 2012
- Associate editor for track "Approaches to Information Systems Development" at the International Conference on Information Systems (ICIS) 2007
- Program committee member for the Business Process Management (BPM) conference 2016, 2017, 2018, 2019, 2020, 2021
- Program committee member for the Workshop on Frontiers of Process Aware Systems (FOPAS), 2020
- Program committee member for the International Conference on Process Mining (ICPM), 2020
- Program committee member for the Workshop on Artificial Intelligence for Business Process Management 2020
- Program committee member for the Conference on Business Informatics (CBI) 2016, 2018, 2019, 2020
- Advisory board member for the International Conference on Partial Least Squares (PLS), 2020
- Program committee member for the Workshop on Information Technology and Systems (WITS) 2010, 2012, 2013, 2014, 2016
- Program committee member for the International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE) 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015

- Program committee member for the International Conference on Design Science Research in Information Systems and Technology (DESRIST), 2015
- Program committee member for the International Conference on Software Language Engineering (SLE), 2014
- Program committee member for the International Conceptual Modeling Conference (ER) 2010, 2011, 2013, 2014
- Program committee member for the Domain Engineering Workshop, 2009, 2010, 2011, 2012
- Program committee member for the International Workshop on Vocabularies, Ontologies, and Rules for the Enterprise (VORTE) 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013
- Program committee member for the International Workshop on Ontologies and Conceptual Modeling (OntoCoM) 2011
- Program committee member for the International Conference on Advanced Information Systems Engineering (CAiSE) 2007, 2008, 2009, 2010, 2011
- Program committee member for the International Workshop on Foundations and Practices for UML 2007, 2008, 2009
- Program committee member for the International Conference on E-Business (ICE-B) 2008
- Program committee member for the Conference on Qualitative Research in Information Technology (QualIT) 2007
- Program committee member for the International Conference on Innovations in IT 2007
- Program committee member for the Australasian Ontology Workshop (AOW) 2007
- Program committee member for the Canadian Semantic Web Working Symposium (CSWWS) 2006
- Program committee member for the IADIS e-Commerce conference 2006
- Program committee member for the Knowledge Management Asia-Pacific conference 2005
- Reviewer for MIS Quarterly, 2010, 2011, 2012, 2013, 2014, 2019, 2020
- Reviewer for DSS (Decision Support Systems), 2017, 2018, 2019, 2020
- Reviewer for EMISAJ (EMISA Journal), 2020
- Reviewer for CAIS (Communications of the AIS), 2011, 2013, 2014, 2016, 2020
- Reviewer for IS (Information Systems), 2008, 2010, 2017, 2018, 2019
- Reviewer for Behaviourmetrica, 2019
- Reviewer for EMISAJ (EMISA Journal), 2019
- Reviewer for JAIS (Journal of the AIS), 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2014, 2018

- Reviewer for Internet Research, 2018
- Reviewer for IEEE TSC (Transactions on Services Computing), 2018
- Reviewer for JSCS (Journal of Statistical Computation and Simulation), 2017
- Reviewer for ITM (Information Technology and Management), 2006, 2007, 2016
- Reviewer for APJIS (Asia Pacific Journal of Information Systems), 2015
- Reviewer for CSDA (Computational Statistics and Data Analysis), 2015
- Reviewer for ISR (Information Systems Research), 2008, 2009, 2010, 2011, 2012, 2013
- Reviewer for EJIS (European Journal of Information Systems), 2011, 2012, 2013
- Reviewer for Communications of the ACM, 2011
- Reviewer for Structural Equation Modeling, 2010
- Reviewer for e-Services Journal, 2009
- Reviewer for AAI (Applied Artificial Intelligence), 2009
- Reviewer for OIR (Online Information Review), 2008
- Reviewer for IST (Information and Software Technology), 2008
- Reviewer for Journal of Applied Ontology, 2007
- Reviewer for DKE (Data and Knowledge Engineering), 2005
- Reviewer for JCIS (Journal of Computer Information Systems), 2005
- Reviewer for JDS (Journal of Data Semantics), 2006
- Reviewer for ISM (Information Systems Management), 2005
- Reviewer for JDM (Journal of Database Management), 2006, 2007
- Reviewer for ICIS conference (2002, 2005, 2006, 2007, 2009, 2010, 2013, 2015, 2017, 2018)
- Reviewer for CAiSE conference (2002, 2003, 2004, 2006)
- Reviewer for AMCIS, ECIS, PACIS, HICSS, WI, and ER conferences
- Reviewer for the Canadian SSHRC granting agency (2006)
- Reviewer for the Canadian NSERC granting agency (2005, 2008, 2009, 2011, 2012, 2013, 2017)
- Reviewer for the Fonds Wetenschappelijk Onderzoek - Vlaanderen, (FWO) granting agency (2018)
- Invited presentation at National University of Singapore (December 2014): Comparing Out-of-Sample Predictive Ability of PLS, Covariance, and Regression Models.

- Invited presentation at the University of Münster, Germany (July 2011): Testing Models or Fitting Models? Identifying misspecifications in PLS.
- Invited presentation at the University of Münster, Germany (April 2010): A Multi-Method Investigation of Information Use in Schema Matching.
- Invited presentation at the University of British Columbia, Canada (June 2010): A Multi-Method Investigation of Information Use in Schema Matching.
- Invited presentation at National University of Singapore (August 2007): An Exploratory Study of Database Integration Processes.
- Invited presentation at Queensland University of Technology (August 2005): Integrating Philosophical and Semantic Web Ontologies.
- Invited presentation at the Atlantic Schools of Business Conference (October 2008): From UML Actions to AspectJ.
- Invited presentation at Victoria University of Wellington (December 2008): Towards a Cognitive Quality of Ontologies.
- Invited to the Dagstuhl seminar on Roles in programming languages, April 2010.
- Program committee member for the CAiSE 2013 Doctoral Consortium, Valencia, Spain
- Advising faculty member for the CAiSE 2006 Doctoral Consortium, Luxembourg
- Advising faculty member for the CAiSE 2005 Doctoral Consortium, Porto, Portugal
- Advising faculty member for the CAiSE 2004 Doctoral Consortium, Riga, Latvia
- Co-organizer of the CAiSE 2004 Doctoral Workshop, Riga, Latvia
- Co-organizer of the CAiSE 2003 Doctoral Workshop, Velden, Austria
- Student participant of the CAiSE 2002 Doctoral Workshop, Toronto, Canada
- Co-ordinator for the UBC Faculty of Commerce Bureau for e-Business Research (2001)
- External reviewer, Masters thesis, Massey University, 2008
- External reviewer, Masters thesis, Memorial University, 2006
- Internal reviewer, Masters thesis, Memorial University, 2011

## Service to the University

### Memorial University of Newfoundland

- Facilitating lead of graduate programs external review, Faculty of Business Administration (2020/2021)
- Committee on undergraduate studies, Faculty of Business Administration (Sep 2020 – )
- Research Committee, Faculty of Business Administration (Sep 2019 – )



- Teaching and Assurance of Learning Steering Committee, Faculty of Business Administration (Sep 2019 – )
- Search committee (chair), Faculty of Business Administration (Jul 2015 – Oct 2015)
- Senate Committee on Educational Technologies (Sep 2008 – Aug 2011, Sep 2012 – Aug 2015)
- Research committee, Faculty of Business Administration (Sep 2013 – Aug 2014)
- Academic Council, School of Graduate Studies (Sep 2012 – Aug 2013)
- Graduate research programs committee, Faculty of Business Administration (Jan 2010 – Sep 2011)
- Committee on undergraduate studies, Faculty of Business Administration (Sep 2008 – Sep 2012)
- Area group coordinator – Information systems and Operations management area, Faculty of Business Administration (Sep 2009 – Sep 2011)
- Search committee for term appointments, Faculty of Business Administration (Sep 2009 – Sep 2011)
- Management committee, Faculty of Business Administration (Sep 2009 – Sep 2011)
- Accreditation maintenance steering committee, Faculty of Business Administration (Sep 2010 – Sep 2011)
- Standing committee on curriculum improvement, Faculty of Business Administration (Sep 2009 – Sep 2011)
- Faculty of Business Administration and Department of Computer Science (MUN) joint committee on the establishment of a joint degree program (2009 – 2010)
- Working group on AACSB accreditation maintenance, Faculty of Business Administration (Sep 2009 – Apr 2010)
- Search committee, Faculty of Business Administration (Sep 2008 – Apr 2009)
- Academic representative of the CCICT (Canadian Coalition for Tomorrow's ICT Skills) curriculum development Initiative

### **Victoria University of Wellington**

- School of Information Management admissions committee for honours degree (2006 – 2007)
- School of Information Management chair of research seminar series (2005–2007)
- School of Information Management lab coordinator (2004–2007)

## Grants and Awards

Note: All grants and awards are competitive

- Social Science and Humanities Research Council (SSHRC) of Canada Partnership Grant, \$2,498,895.00, "Too Big To Ignore: Global Partnership for Small-Scale Fisheries Research", Co-Applicant, 2012 – 2017
- Memorial University Instructional Development Grant \$4,998.72, "Experiential Learning using Enterprise IT Systems", 2012
- Terra Nova Young Innovators Award, \$25,000.00, "Contextual Factors and Database Integration", 2011
- Memorial University Faculty of Business Administration Dean's Research Award, 2009
- Natural Sciences and Engineering Research Council (NSERC) of Canada Discovery Grant, \$75,000.00, "Contextual Factors in Database Integration", 2008 – 2013
- Social Sciences and Humanities Research Council (SSHRC) of Canada, \$2,500.00 travel fund, 2014
- Social Sciences and Humanities Research Council (SSHRC) of Canada, \$2,140.00 travel fund, 2012
- Social Sciences and Humanities Research Council (SSHRC) of Canada, \$2,250.00 travel fund, 2010
- Social Sciences and Humanities Research Council (SSHRC) of Canada, \$3,000.00 travel fund, 2008

## Visa Status

- Citizenship: German
- New Zealand Permanent Residency
- Canadian Permanent Residency