

CURRICULUM VITAE

Iker Gondra

Department of Mathematics, Statistics, and Computer Science
St. Francis Xavier University, P.O. Box 5000
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Education

- ◇ Ph.D. in Computer Science, July, 2005
Oklahoma State University, Stillwater, Oklahoma, USA.
Dissertation Title: *Inter-Query Learning in Content Based Image Retrieval.*
- ◇ M.Sc. in Computer Science, May, 2002
Oklahoma State University, Stillwater, Oklahoma, USA.
Thesis Title: *A Coarse-Grain Parallel Genetic Algorithm to Improve the Bounds of Some Ramsey Numbers.*
- ◇ B.Sc. in Computer Science, December, 1998
Oklahoma State University, Stillwater, Oklahoma, USA.

Academic Employment

- ◇ Associate Professor (Tenured), September 2010 – present
Department of Mathematics, Statistics, and Computer Science
St. Francis Xavier University, Antigonish, Nova Scotia, Canada
- ◇ Assistant Professor (Tenure Track), January 2005 – September 2010
Department of Mathematics, Statistics, and Computer Science
St. Francis Xavier University, Antigonish, Nova Scotia, Canada
- ◇ Instructor, Summer 2004
Department of Computer Science
Oklahoma State University, Stillwater, Oklahoma, USA
- ◇ Teaching Assistant, August 1999 - December 2004
Department of Computer Science
Oklahoma State University, Stillwater, Oklahoma, USA
- ◇ Research Assistant, Summers of 2004, 2003, 2002
Department of Computer Science
Oklahoma State University, Stillwater, Oklahoma, USA

NSF Research Experience for Undergraduates

Supervised research projects in the visual information processing fields of computer graphics, computer vision, and content-based image retrieval.

Teaching Experience

- ◇ As Professor at St. Francis Xavier University

CSCI-100 *Introduction to Computing*, Fall 2007, Winter 2008, Fall 2009, Winter 2010

CSCI-235 *Micro-Computers in Science*, Fall 2005, Fall 2006, Winter 2009

CSCI-254 *Object-Oriented Methodologies*, Fall 2005

CSCI-255 *Advanced Data Structures*, Fall 2005, Fall 2006, Fall 2007, Fall 2008, Fall 2009, Fall 2010

CSCI-256 *Data Structures and Algorithm Analysis*, Winter 2007

CSCI-365 *Computer Organization*, Fall 2008

CSCI-375 *Operating Systems*, Winter 2006, Winter 2005, Winter 2008, Winter 2009, Winter 2010, Winter 2011

CSCI-383 *Object-Oriented Programming and Design*, Fall 2007

CSCI-485 *Software Design*, Winter 2006, Winter 2010, Winter 2011

CSCI-495/545 *Artificial Intelligence*, Winter 2005, Winter 2007, Winter 2009, Fall 2010

- ◇ As Instructor at Oklahoma State University

CS-2351 *Unix Programming*, Summer 2004

- ◇ As Teaching Assistant at Oklahoma State University

CS-2133 *Computer Science II*, Fall 1999

CS-2351 *Unix Programming*, Spring 2000

CS-3363 *Organization of Programming Languages*, Fall 2000

CS-3373 *Object-Oriented Programming and Visual C++*, Fall 2004, Spring 2004, Fall 2003

CS-3443 *Computer Systems*, Fall 2002

CS-3653 *Discrete Mathematics*, Summer 2000

CS-4323 *Operating Systems I*, Summer 2001, Summer 2000

Grants and Awards

- ◇ NSERC Discovery Grant, \$19,000 per year for 5 years, 2009 – 2013
Title of Proposal: *Machine Learning Methods for Strong Image Segmentation*

- ◇ St. Francis Xavier University Research/Publication/Teaching Award, \$2,230, 2011

- ◇ St. Francis Xavier University Research/Publication/Teaching Award, \$2,246, 2010
- ◇ St. Francis Xavier University Council for Research Grant, \$2,500, Summer 2009
Research Title: *Machine Learning-Based Algorithms for Semantic Image Segmentation*
- ◇ St. Francis Xavier University Research/Publication/Teaching Award, \$2,300, 2009
- ◇ NSERC Research Capacity Development funding in the amount of \$10,000 (in collaboration with P. Chareka) to develop Service Quality Assurance Tracking software, 2008
- ◇ St. Francis Xavier University Research/Publication/Teaching Award, \$2,675, 2008
- ◇ St. Francis Xavier University Research/Publication/Teaching Award, \$2,300, 2007
- ◇ St. Francis Xavier University Research/Publication/Teaching Award, \$2,300, 2006
- ◇ St. Francis Xavier University Council for Research Grant, \$2,860, Summer 2005
Research Title: *Content-Based Image Retrieval with Normalized Information Distance*
- ◇ St. Francis Xavier University Start Up Grant, \$10,000, 2005
- ◇ Conoco Phillips Computer Science Graduate Student Scholarship Award, 2004

Publications

- ◇ Refereed Publications (in reverse chronological order)

Journal (○) , Conference Proceedings (■)

- C. H. Li, I. Gondra, and L. Liu. “An Efficient Parallel Neural Network-Based Multi-Instance Learning Algorithm”. *The Journal of Supercomputing* (Springer). In Press. DOI: 10.1007/s11227-012-0746-1
- F. I. Alam and I. Gondra. “A Bayesian Network-based Tunable Image Segmentation Algorithm for Object Recognition. *Proceedings of IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'11)*, pp. 11-16, Bilbao, Spain, December 2011.
- T. Xu and I. Gondra. “A Simple and Effective Texture Characterization for Image Segmentation”. *Signal, Image and Video Processing* (Springer). In Press. DOI: 10.1007/s11760-010-0182-8
- T. Xu, I. Gondra, and D. Chiu. “Adaptive Kernel Diverse Density Estimate for Multiple Instance Learning”. *Proceedings of 2011 International Conference on Machine Learning and Data Mining (ICDM'11)*, New York, NY, USA, August/September 2011. Springer Lecture Notes in Computer Science. vol. 6871, pp. 185-198.

- M. Cormier and I. Gondra. “Supervised Object Segmentation Using Visual and Spatial Features”. Proceedings of the 2011 International Conference on Image Processing, Computer Vision and Pattern Recognition (ICCV’11), pp. 557-563, Las Vegas, Nevada, USA, July 2011.
- I. Gondra and T. Xu. ”Image Region Re-Weighting via Multiple Instance Learning”. Signal, Image and Video Processing (Springer). Signal, Image and Video Processing (Springer), vol. 4, no. 4, pp. 409-417, November 2010.
- C. H. Li and I. Gondra. “A Novel Neural Network-Based Approach for Multiple Instance Learning”. Proceedings of the Tenth IEEE International Conference on Computer and Information Technology (CIT’10), pp. 451-456, Bradford, UK, June 2010.
- I. Gondra and T. Xu. ”A Multiple Instance Learning Based Framework for Semantic Image Segmentation”. Multimedia Tools and Applications (Springer), vol. 48, no. 2, pp. 339-365, April 2010.
- T. Xu and I. Gondra. “Texture Map: An Effective Representation for Image Segmentation”. Proceedings of the C3S2E Conference (C3S2E’09), pp. 197-203, ACM, Montreal, Canada, May 2009.
- I. Gondra and T. Xu. “Adaptive Mean Shift-Based Image Segmentation Using Multiple Instance Learning”. Proceedings of the Third IEEE International Conference on Digital Information Management (ICDIM’08), pp. 716-721, London, UK, November 2008.
- R. Fernandes de Mello and I. Gondra. ”Multi-Dimensional Dynamic Time Warping for Image Texture Similarity”. Proceedings of the Nineteenth Brazilian Symposium on Artificial Intelligence (SBIA’08), Salvador, Bahia, Brazil, October 2008. Springer Lecture Notes in Computer Science. vol. 5249, pp. 23-32.
- I. Gondra and D. R. Heisterkamp. “Content-Based Image Retrieval with The Normalized Information Distance”. Computer Vision and Image Understanding (Elsevier), vol. 111, no. 2, pp. 219-228, August 2008.
- T. Xu and I. Gondra. ”An Objective Evaluation of the Mean Shift-Based Image Segmentation Algorithm”. Proceedings of the 2008 International Conference on Image Processing, Computer Vision, and Pattern Recognition (ICCV’08), pp. 205-211, Las Vegas, Nevada, USA, July 2008.
- I. Gondra. “Applying Machine Learning to Software Fault-Proneness Prediction”. Journal of Systems and Software, Special Issue on Model-Based Software Testing (Elsevier), vol. 81, no. 2, pp. 186-195, February 2008.
- T. F. Hu, I. Gondra, H. C. Su, and C. C. Chang. “Forecasting Inflation Under Globalization with Artificial Neural Network- Based Thin and Thick Models”. Proceedings of the 2007 International Conference on Soft Computing and Applications (ICSCA’07) (in conjunction with the 2007 World Congress on Engineering and Computer Science), pp. 909-914, San Francisco, California, USA, October 2007.

- I. Cabria and I. Gondra. “Predicting Properties by Exploiting Their Relationships”. Proceedings of the 2007 International Conference on Engineering and Mathematics (ENMA’07), pp. 125-131, Bilbao, Spain, July 2007.
- T. F. Hu, I. Gondra, and H. C. Su. ” Forecasting Daily Stock Returns of East Asian Tiger Countries with Intermarket Influences: A Comparative Study on Artificial Neural Networks and Conventional Models”. Proceedings of the 2007 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA’07), pp. 836-842, Las Vegas, Nevada, USA, June 2007.
- T. F. Hu, H. C. Su, and I. Gondra. ” Examining Nonlinear Interrelationships Among Foreign Exchange Markets in the Pacific Basin with Artificial Neural Networks”. Proceedings of the 2007 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA’07), pp. 829-835, Las Vegas, Nevada, USA, June 2007.
- I. Gondra. “Region-Based Latent Semantic Indexing of an Image Database”. WSEAS Transactions on Computers, vol. 6, no. 4, pp. 650-655, April 2007.
- I. Gondra and D. R. Heisterkamp. “A Kolmogorov Complexity-Based Normalized Information Distance for Image Retrieval”. Proceedings of the 2005 International Conference on Imaging Science, Systems, and Technology (CISST’05), pp. 3-7, Las Vegas, Nevada, USA, June 2005.
- I. Gondra and D. R. Heisterkamp. “Semantic Similarity for Adaptive Exploitation of Inter-Query Learning”. Proceedings of the 2004 International Conference on Computing, Communications, and Control Technologies (CCCT’04) (sponsored by the University of Texas at Austin), vol. 1, pp. 142-147, Austin, Texas, USA, August 2004. [Best Paper of the Session]
- I. Gondra and D. R. Heisterkamp. “Learning in Region-Based Image Retrieval with Generalized Support Vector Machines”. Proceedings of the Fourth International Workshop on Multimedia Data and Document Engineering (MDDE’04) (in conjunction with IEEE Conference on Computer Vision and Pattern Recognition (CVPR’04)), Washington, DC, USA, July 2004.
- I. Gondra and D. R. Heisterkamp. “Probabilistic Region Relevance Learning for Content-Based Image Retrieval”. Proceedings of the 2004 International Conference on Imaging Science, Systems, and Technology (CISST’04), pp.434-440, Las Vegas, Nevada, USA, June 2004.
- I. Gondra, D. R. Heisterkamp, and J. Peng. “Improving Image Retrieval Performance by Inter-Query Learning with One-Class Support Vector Machines”. Neural Computing & Applications (Springer), vol. 13, no. 2, pp. 130-139, June 2004.
- I. Gondra and D. R. Heisterkamp. “Summarizing Inter-Query Knowledge in Content-Based Image Retrieval via Incremental Semantic Clustering”. Proceedings of the Fifth IEEE International Conference on Information Technology (ITCC’04), vol. 2, pp. 18-22, Las Vegas, Nevada, USA, April 2004.

- I. Gondra and D. R. Heisterkamp. “Adaptive and Efficient Image Retrieval with One-Class Support Vector Machines for Inter-Query Learning”. WSEAS Transactions on Circuits and Systems, vol. 3, no. 2, pp. 324-329, April 2004.
- I. Gondra, D. R. Heisterkamp, and J. Peng. “Improving the Initial Image Retrieval Set by Inter-Query Learning with One-Class SVMs”. Proceedings of the Third International Conference on Intelligent Systems Design and Applications (ISDA’03), Tulsa, Oklahoma, USA, August 2003. Springer Advances in Intelligent and Soft Computing. vol. 23, pp. 393-402.
- A. Auyeung, I. Gondra, and H. K. Dai .“Integrating Random Ordering into Multi-heuristic List Scheduling Genetic Algorithm”. Proceedings of the Third International Conference on Intelligent Systems Design and Applications (ISDA’03), Tulsa, Oklahoma, USA, August 2003. Springer Advances in Intelligent and Soft Computing. vol. 23, pp. 447-458.
- I. Gondra and M. H. Samadzadeh. “A Coarse-Grain Parallel Genetic Algorithm for Finding Ramsey Numbers”. Proceedings of the Eighteenth Annual ACM Symposium on Applied Computing (SAC’03), pp. 2-8, Melbourne, Florida, USA, March 2003.
- A. AuYeung, I. Gondra, and H. K. Dai. “Multi-heuristic List Scheduling Genetic Algorithm for Task Scheduling”. Proceedings of the Eighteenth Annual ACM Symposium on Applied Computing (SAC’03), pp. 721-724, Melbourne, Florida, USA, March 2003.

◇ Book Chapters

- T. F. Hu, I. Gondra, H. C. Su, and C. C. Chang. Forecasting Inflation with the Influence of Globalization using Artificial Neural Network-based Thin and Thick Models. In S. I. Ao, B. Rieger and S. S. Chen (Eds.), Advances in Computational Algorithms and Data Analysis, Lecture Notes in Electrical Engineering, Vol. 14, pp. 563-575, Springer, 2008.
- I. Gondra. Personalized Content-Based Image Retrieval. In R. A. Gonzalez, N. Chen and A. Dahanayake (Eds.), Personalized Information Retrieval and Access: Concepts, Methods and Practices, pp. 194-219. IGI Publishing, 2008. Also published (by publisher’s own decision) in Artificial Intelligence for Maximizing Content-Based Image Retrieval, pp. 261-287. IGI Publishing, 2009.
- I. Gondra. Parallelizing Genetic Algorithms: A Case Study. In D. Vrakas and I. Vlahavas (Eds.), Artificial Intelligence for Advanced Problem Solving Techniques, pp. 284-307. IGI Publishing, 2008.

◇ Non-Refereed Publications

- M. Cormier and I. Gondra. “Strong Image Segmentation Using Learned Regions and Spatial Relationships”. In APICS Annual Computer Science Conference, Saint Mary’s University, Halifax, Nova Scotia, Canada, October 2010. [Note: student was awarded third place for his talk]
- M. Cormier and I. Gondra. “Strong Image Segmentation through Non-homogeneous

Region Merging”. In APICS Annual Computer Science Conference, Dalhousie University, Halifax, Nova Scotia, Canada, October 2009.

Professional Service

◇ Chair and co-founder of Local Chapter of the ACM at St. Francis Xavier University

◇ Reviewer for Journals

Multimedia Tools and Applications (Springer), 2009-present

Journal of Empirical Software Engineering (Springer), 2008-present

Journal of Systemics, Cybernetics, and Informatics, 2004-present

Journal of Systems and Software (Elsevier), 2004-present

Journal of Neural Computing & Applications (Springer), 2003-present

◇ Reviewer for Conferences

IEEE International Symposium Signal Processing and Information Technology, 2011

IEEE International Symposium on Social Computing and Networking, 2009

IEEE International Conference on Advanced Information Networking and Applications, 2009

World Congress on Computer Science and Information Engineering, 2009

International Conference on Complex, Intelligent and Software Intensive Systems, 2009

International Symposium on Ubiquitous Multimedia Computing, 2008

IEEE International Conference on Advanced Information Networking and Applications, 2007

International Conference on Intelligent System Design and Applications, 2006

◇ Reviewer for Workshops

International Workshop on Intelligent Systems Techniques for Ad Hoc and Wireless Sensor Networks, 2008

IEEE International Workshop on Cooperative Distributed Systems, 2008

IEEE International Workshop on Cooperative Distributed Systems, 2007

◇ Reviewer for Books

Personalized Information Retrieval and Access: Concepts, Methods, and Practices, 2007

Artificial Intelligence for Advanced Problem Solving Techniques, 2007

◇ Chair of Conferences, Workshops, or Sessions

Program Chair for APICS Computer Science Conference, 2009

Program Vice-Chair for IEEE International Symposium on Social Computing and Networking,

2009

Organizer and Program Co-Chair for *IEEE International Workshop on Learning in Multi-Agent Systems*, 2007 [Note: cancelled due to insufficient number of paper submissions]

Local Arrangement Chair for *IEEE International Conference on Advanced Information Networking and Applications*, 2007

Session Chair for *International Conference on Computing, Communications, and Control Technologies*, 2004

◇ Member of Technical Program Committee

ACM International Symposium on Intelligent Systems Techniques for Ad Hoc and Wireless Sensor Networks, 2009

IEEE International Conference on Advanced Information Networking and Applications, 2009

World Congress on Computer Science and Information Engineering, 2009

International Conference on Complex, Intelligent and Software Intensive Systems, 2009

International Workshop on Intelligent Systems Techniques for Ad Hoc and Wireless Sensor Networks, 2008

International Symposium on Ubiquitous Multimedia Computing, 2008

IEEE International Workshop on Cooperative Distributed Systems, 2008

International Workshop on Intelligent Systems Techniques for Ad Hoc and Wireless Sensor Networks, 2007

IEEE International Workshop on Cooperative Distributed Systems, 2007

IEEE International Conference on Information Technology: New Generations, Software Engineering Track, 2007

IEEE International Workshop on Intelligent Systems Techniques for Wireless Sensor Networks, 2006

**University
Service**

◇ Member of Departmental Evaluation Committee, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, 2010.

◇ Acting Chair, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, June 13-July 17, 2010

◇ Member of Heaps Endowment Selection Committee, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, 2009-present

◇ Member of Appeals Committee, St. Francis Xavier University, 2009-present

- ◇ Member of Graduate Studies Committee, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, 2009-present
- ◇ Member of Statistics Curriculum Review Committee, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, 2009-present
- ◇ Faculty Advisor for Incoming Undergraduate Students, St. Francis Xavier University, 2009
- ◇ Member of Academic Computing Committee, St. Francis Xavier University, 2008-present
- ◇ Faculty Advisor for Incoming Undergraduate Students, St. Francis Xavier University, 2008
- ◇ Chair of Computer Science Curriculum Review Committee, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, 2007-present
- ◇ Member of Ad Hoc Curriculum Review Committee, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, 2007
- ◇ Faculty Advisor for Incoming Undergraduate Students, St. Francis Xavier University, 2007
- ◇ Member of Chairs Selection Committee, Faculty of Science, St. Francis Xavier University, 2006-2008
- ◇ Member of Graduate Studies Committee, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, 2006-2008
- ◇ Departmental Meeting Secretary, Department of Mathematics, Statistics, and Computer Science, St. Francis Xavier University, 2005-2006
- ◇ Judge for Oklahoma State University's local ACM programming contest, 2004
- ◇ Coach for Oklahoma State University's programming team in ACM regional programming contest, 2002
- ◇ Judge for Oklahoma State University's local ACM programming contest, 2001

Supervision

- ◇ Postdoctoral co-supervisor
 - Chenghua Li, St. Francis Xavier University, 2009-2010 (co-supervisors: Laurence T. Yang, Man Lin)
- ◇ Graduate Student Supervisor
 - Fahim Irfan Alam, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *Learning Spatial Relations for Object-Specific Segmentation Using Bayesian Network Model*, 2009-2011

Tao Xu, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *Adaptive Mean Shift-Based Image Segmentation Using Multiple Instance Learning*, 2006-2009

◇ Undergraduate Student Supervisor

Michael Cormier, St. Francis Xavier University, Computer Science (B.Sc. Honours), Status: Completed, Thesis Title: *Supervised Object Segmentation Using Visual and Spatial Features*, 2009-2011 [Note: student received numerous awards including NSERC USRA, NSERC CGS]

Maxwell Graham, St. Francis Xavier University, Computer Science (B.Sc. Honours), Status: Completed, Thesis Title: *A Genetic Algorithm to Evolve the Structure of an Artificial Neural Network*, 2010

Eli Bunbury Blanchette, St. Francis Xavier University, Computer Science (B.Sc. Advanced Major), Status: Completed, Thesis Title: *An Image-Based CAPTCHA that Exploits the Difficulties in Computer Vision*, 2010

Jason Gratto, St. Francis Xavier University, Computer Science (B.Sc. Advanced Major), Status: Completed, Thesis Title: *An Analysis of the Exploration-Exploitation Tradeoff in Reinforcement Learning Applied to Othello*, 2008

Xiaodan Fang, St. Francis Xavier University, Computer Science (B.Sc. Honours), Status: Completed, Thesis Title: *Analyzing the Relative Importance of House Price Determinants in Antigonish County: A Neural Network Approach*, 2007

◇ Graduate Student Supervisory Committee Member

Zahidul Islam, St. Francis Xavier University, Computer Science (MSc), Status: In Progress, 2009-present

Conan Li, St. Francis Xavier University, Computer Science (MSc), Status: In Progress, 2009-present

Nazia Leyla, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *A Personalized Access Control Framework for Work-Flow Based Healthcare Information*, 2009-2011

Alice Ying Huang, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *An Improved Parallel Block Lanczos Algorithm over $GF(2)$ for Integer Factorization*, 2008-2011

Gaoyuan Huang, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *Parallel Block Widemann-based GNFS Algorithms for Integer Factorization*, 2008-2010

Liu Yang, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *Power-Aware Fixed Priority Scheduling for Multicore Processors*, 2008-2010

Yongwen Pan, St. Francis Xavier University, Computer Science (MSc), Status: In Progress,

2007-present

Li Xu, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *Parallel Block Lanczos-Based GNFS Algorithms for Integer Factorization*, 2006-2008

Fahim Imam, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *An Inconsistency Tolerant Approach to Ontology Merging*, 2006-2008

◇ Graduate Student Internal Thesis Reader

Chen Ding, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *A Real Time Motion Monitoring System*, 2009

Fahim Imam, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *An Inconsistency Tolerant Approach to Ontology Merging*, 2008

Jeffrey Dallien, St. Francis Xavier University, Computer Science (MSc), Status: Completed, Thesis Title: *Workflow Verification for Health Care*, 2007

◇ Undergraduate Student Second Thesis Reader

Jason Detcheverly, St. Francis Xavier University, Computer Science (B.Sc. Honours), Status: Completed, Thesis Title: *Multidatabase Querying and Semantic Optimization*, 2009

Fan Li, St. Francis Xavier University, Computer Science (B.Sc. Honours), Status: Completed, Thesis Title: *Final Exam Scheduler*, 2009

Keith Miller, St. Francis Xavier University, Computer Science (B.Sc. Honours), Status: Completed, Thesis Title: *A Tableau Model Checker for the Temporal Logic of Actions*, 2006

◇ Summer Undergraduate Research Supervisor

Michael Cormier, St. Francis Xavier University, Summer Research Title: *Machine Learning-Based Algorithms for Semantic Image Segmentation*, 2011

Michael Cormier, St. Francis Xavier University, Summer Research Title: *Machine Learning-Based Algorithms for Semantic Image Segmentation*, 2010

Michael Cormier, St. Francis Xavier University, Summer Research Title: *Machine Learning-Based Algorithms for Semantic Image Segmentation*, 2009

Qian Li Ma, St. Francis Xavier University, Summer Research Title: *Machine Learning-Based Algorithms for Semantic Image Segmentation*, 2009

Michel Gallant, St. Francis Xavier University, Summer Research Title: *Content-Based Image Retrieval with the Normalized Information Distance*, 2005