

## Education

- 09/2006 - 09/2008 M.Sc. in Mathematics at McGill University, Montreal, QC.  
Thesis submitted 08/2008 and recommended for Dean's Honour List
- 09/2002 - 06/2006 B.Sc. Honours in Mathematics (minor in Computer Science) at  
Queen's University, Kingston, ON.
- 09/1998 - 06/2002 O.S.S.D. at Frontenac Secondary School, Kingston, ON.
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## Employment History

- 01/2009 - Present Instructor, Dept. of Mathematics, Champlain College St-Lambert.
- 09/2006 - 12/2008 Researcher, Coalgebraic Theory of Automata  
(with Dr. Prakash Panangaden), McGill University.
- 06/2005 - 09/2006 Researcher, Approximations of Formal Languages  
(with Dr. Kai Salomaa), Queen's University.
- 06/2004 - 09/2004 Researcher, Parallel Computation & Chaotic Dynamics  
(with Dr. Selim Akl), Queen's University.
- 09/2008 - 12/2008 Teaching Assistant, Math 140 - Calculus I, McGill University.  
09/2006 - 12/2006
- 09/2005 - 06/2006 Teaching Assistant, Math 211 - Algebraic Methods, Queen's  
University.
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## Awards & Achievements

- NSERC Canada Graduate Scholarship (CGS M), Supervised by Dr. Prakash Panangaden,  
McGill University, 2007 - 2008.
- NSERC Undergraduate Student Research Award (USRA), Supervised by Dr. Selim Akl,  
Queen's University, 2004.
- Dean's Honour List, Faculty of Arts and Science, Queen's University, 2004 - 2006.
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## Publications

- Cordy, B. and Salomaa, K., *On the Existence of Regular Approximations*. Theoretical  
Computer Science, Volume 387, No. 2. Elsevier, November 2007, pp. 125 - 135.

Akl, S.G., Cordy, B. and Yao, W., *An Analysis of the Effect of Parallelism in the Control of Dynamical Systems*. International Journal of Parallel, Emergent and Distributed Systems, Vol. 20, No. 2, June 2005, pp. 147 - 168.

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## Lectures & Conferences

*Constructing Final Coalgebras with Modal Logic*. Workshop on Foundational Methods in Computer Science, Halifax, Nova Scotia, 2008.

*Duality Theory for Kripke Machines*. Reasoning and Learning Laboratory Seminar, McGill University, Montreal, Quebec, 2008.

*Regular Approximations of Non-regular Languages*. Conference on Descriptive Complexity of Formal Systems, Las Cruces, New Mexico, 2006.

*Braid Groups & Cryptography*. Canadian Undergraduate Mathematics Conference, Montreal, Quebec, 2006.

*Recursive & Recursively Enumerable Sets*. Canadian Undergraduate Mathematics Conference, Kingston, Ontario, 2005.

Participant, Conference on Mathematical Foundations of Programming Semantics, University of Ottawa, Ottawa, Ontario, 2010.

Participant, International Conference on Category Theory, Faro, Portugal, 2007.

Participant, Workshop on Applications of Traces to Algebra, Analysis, and Categorical Logic, University of Ottawa, Ottawa, Ontario, 2007.

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Contact information and references available upon request