

*"A mathematician is a machine for turning coffee into theorems." –
Alfréd Rényi*

Education

- 2007–2009 **MSc - Applied Mathematics**, *The University of Western Ontario*, London, Ontario.
Research area: Mathematical Biology
- 2003–2007 **BSc - Mathematics**, *Trent University*, Peterborough, Ontario.
Dean's Honour List, 2003–2007 Courses taken included Real Analysis, Abstract Algebra, Mathematical Modeling and Stochastic Processes

Master's Thesis

- title *The Evolution of Cooperation on Bipartite Networks*
- supervisors Dr Lindi Wahl and Dr Geoff Wild
- description An evolutionary game theoretic model is developed to examine how network heterogeneity affects the evolution of cooperation.

Experience

Teaching and Education

- 2007–2009 **Teaching Assistant**, *The University of Western Ontario*, London, Ontario.
Lead tutorials and drop-in help sessions for students, graded tests and assignments and held regular office hours for additional student help.
- 2005–2006 **Teaching Assistant**, *Trent University*, Peterborough, Ontario.
Assisted students in a lab-based physics for education students course.
- 2006–2007 **Grader**, *Trent University*, Peterborough, Ontario.
Graded homework assignments and tests for second-year calculus courses.
- Summer 2005 **Instructor, Trent Science Camp**, *Trent University*, Peterborough, Ontario.
Lead the physics lab module for students in grades 6 to 8.

Vocational

- 2009–Present **Research Associate**, *Cerebral Diagnostics Canada, Inc.*, Toronto, Ontario.
Conduct experiments, undertake statistical analyses, and develop in-house software for research in EEG (Electroencephalography).
- Summer 2006 **Research Assistant, Department of Mathematics**, *Trent University*, Peterborough, Ontario.
Designed and developed a database of corporate ownership based on SEC filings as well as a microeconomic model of market dynamics.

Teaching Assistant Experience

University of Western Ontario

- Applied Mathematics for Engineering II, Winter 2008, Winter 2009
- Linear Algebra For Engineering, Fall 2008
- Calculus for Engineering I, Fall 2007
- Calculus with Fundamentals I, Winter 2008

Trent University

- Physics for Teacher Education, Academic Year 2005-2006
- Calculus III - Vector Calculus (*grader*), Winter 2007
- Calculus II - Multivariate Calculus (*grader*), Fall 2006

Contributed Talks

- June 2009 **Evolutionary Game Dynamics on a Bipartite Graph Network**, JM Grant, LM Wahl, G Wild, Canadian Applied and Industrial Mathematics Society Annual Meeting, University of Western Ontario.
London, Ontario
- August 2008 **Sexual Moran Model: Theory and Computation**, JM Grant, LM Wahl, G Wild, Society for Mathematical Biology Annual Meeting, Centre for Mathematical Medicine, University of Toronto.
Toronto, Ontario

Other Scholarly Activities

- Fall 2008 **Organizer, Mathematical Biology Group Seminar Series**, Department of Applied Mathematics, University of Western Ontario, London, Ontario.
Organized speakers and times for weekly seminar series of the mathematical biology research group.
- May 2007 **Mathematical Biology Summer Workshop**, Centre for Mathematical Biology, Department of Mathematics and Statistical Sciences, University of Alberta, Edmonton, Alberta.
Participated in two week mathematical biology workshop for advanced undergraduates.
- August 2006 **Atlantic Association of Research in the Mathematical Sciences Summer School**, Department of Mathematics and Statistics, Dalhousie University, Halifax, Nova Scotia.
Participated in month long summer school, taking graduate courses in wavelet theory and Internet mathematics.
- Academic Year 2006-2007 **Executive, Mathematics Society of Trent (MASCOT)**, Department of Mathematics, Trent University, Peterborough, Ontario.
Undertook activities related to the mathematics community at Trent, including organizing social events and lecture series and developing faculty-student relations.
- December 2006 **Presenter, Elliptic Curve Cryptography for MATH 330**, Department of Mathematics, Trent University.
Presentation on basic concepts and application of elliptic curve groups over finite fields to cryptography.

Computer skills

Languages	C, C++, Perl, BASIC, Python, Bash	Packages	MATLAB, Maple, Octave, R, Boost (C++),
Platforms	Windows, Linux, Unix (Solaris)	Office Software	MS Office, OpenOffice, Photoshop

Interests

- Linux Making the most out of my operating system
- Cooking Trying to prepare everything from maki rolls to crème brûlée.
- Guitar Been playing for 12 years

References

- Dr Lindi Wahl, Professor, Department of Applied Mathematics, The University of Western Ontario, (519) 661-2111 ext 88795, lwahl@uwo.ca
- Dr Geoff Wild, Professor, Department of Applied Mathematics, The University of Western Ontario, (519) 661-2111 ext 88784, gwild@uwo.ca
- Dr Albert Ler, Former Research Associate, Cerebral Diagnostics Canada Inc, (416) 408-2907, alersh@gmail.com

- Dr Marcus Pivato, Professor, Department of Mathematics, Trent University, (705) 748-1011 ext 7293, pivato@xaravve.trentu.ca