joshuagrant

"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

Experience

2009–Present **Research Associate**, *Cerebral Diagnostics Canada, Inc*, Toronto, Ontario.
My current position involves improving in-house software for a small biotechnology company specializing in EEG (Electroencephalography). This includes writing code for 3D visualization, mathematical and statistical analysis of EEG.

2007–2009 **Teaching Assistant**, *The University of Western Ontario*, London, Ontario.
As a teaching assistant I lead tutorials and drop-in help sessions for students, graded tests and assignments and held regular office hours for additional student help.

Summer 2006 **Research Assistant, Department of Mathematics**, *Trent University*, Peterborough, Ontario.
Working with a professor, I designed and developed a database of corporate ownership based on SEC filings as well as a microeconomic model of market dynamics.

2005–2006 **Teaching Assistant**, *Trent University*, Peterborough, Ontario.
I assisted students in a lab-based physics for education students course.

2003–2005 **Volunteer Library Assistant**, *Kawartha World Issues Centre*, Peterborough, Ontario.
A volunteer position where I worked in the resource library organizing materials and aiding in various workshops.

Strengths and Skills

- Strong personal and technical communication skills
- Ability to interact and work in variety of settings and with various personalities
- Excellent problem solving skills
- Strengths in project planning and abstracting reasoning
- Can work in a team or independently, making adjustments to suit
- Experience with modelling and simulation (Monte Carlo and individual-based)
- Knowledge and experience in object-oriented and procedural programming
- Understanding of design and testing aspects of software development
- Familiarity with open source principles and projects (e.g. Ubuntu, Firefox)
- Quick learner, particularly in technological settings

Computer Skills

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

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Other Experience

2008–2009 **Councilor**, *Society of Graduate Students Council*, The University of Western Ontario. London Ontario

2006–2007 **Executive**, *Mathematics Society of Trent*, Trent University. Peterborough Ontario

2006–2007 **Chair**, *Catholic Council of Trent*, Trent University. Peterborough Ontario

2008 **Team Member**, *London Ultimate League*, London. Ontario

2004–2008 **Various intramural teams and events**, *Trent University, University of Western Ontario*, Peterborough and London. Ontario

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, 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