

## Alejandro T. Erickson

ate@uvic.ca, Department of Computer Science, University of Victoria

Anglophone, Hispanophone, Francophone, Discrete Math and Computer Science abled, PhD student.

### EDUCATION

<b>University of Victoria</b> , BC, <b>PhD</b> , Computer Science,	in progress	GPA 100%
<b>University of Waterloo</b> , ON, <b>MMath</b> , Combinatorics and Optimization	2008	GPA 85%
<b>Simon Fraser University</b> , BC, <b>BSc (Hons)</b> , Mathematics	2007	GPA. 85%

### REFEREED PROCEEDINGS and JOURNAL SUBMISSIONS

M. Cheng, E. Delisle, A. Erickson, S. Ganti, F. Mason, N. Vining, S. Whitesides, 2010. *Collaborative Problem Solving: Integrating Theory and Practice in the Classroom*, WCCCE '10: Proceedings of the 15th Western Canadian Conference on Computing Education.

A. Erickson, F. Ruskey, M. Schurch, J. Woodcock, 2010. *Auspicious tatami mat arrangements*. The 16th Annual International Computing and Combinatorics Conference (COCOON 2010), Nha Trang, Vietnam. LNCS 6196 (2010) 288-297.

E. Chambers, A. Erickson, S. Fekete, J. Lenchner, J. Sember, V. Srinivasan, U. Stege, S. Stolpner, C. Weibel, and S. Whitesides, 2010. *Connectivity graphs of uncertainty regions*, The 21st International Symposium on Algorithms and Computation (ISAAC 2010).

A. Erickson, 2010. *Sums of squares and negative correlation for spanning forests of series parallel graphs*, 12 pages, submitted.

A. Erickson, A. Isgur, B. W. Jackson, F. Ruskey, and S. M. Tanny, 2010. *Nested Recurrence Relations With Conolly-Like Solutions*, 32 pages, submitted.

### LEADERSHIP

**Child Mentor** KidStart, Victoria, BC 2009-Present  
One-on-one volunteer mentor and role model for at-risk kids.

**President** Canadian Undergraduate Mathematics Conference (CUMC) 2007  
Chaired meetings, coordinated and delegated fundraising of over \$20,000. Helped acquire distinguished keynote speakers, schedule over 50 student talks and was master of ceremonies.

**Elected President** Math Student Union, Simon Fraser University 2005-2007  
Elected three of three times, was a liaison between students and faculty, organized and chaired general meetings. Accomplishments include campaigning for and acquiring better student space, raising \$2,000.00 for undergraduates to attend the CUMC 2006 at McGill University in Montreal and winning the bid to host the CUMC 2007 at Simon Fraser University.

### TEACHING and RESEARCH

**Teaching Assistantships** Simon Fraser University, University of Waterloo 2006-2008

**Research Assistantships** Simon Fraser U., U. of Waterloo, U. of Victoria 2005-present  
With: M. Monagan, summers of 2005-2007. Master's advisor, D. Wagner, 2007-2008. PhD advisor, F. Ruskey, 2009-present.

**Curriculum Designer, Instructor** Science Alive, Burnaby, BC 2004  
Designed curriculum for science day camp and school visits. Managed large groups of children and conducted scientific demonstrations and activities.

### CONFERENCE INVITATIONS, HONOURS and AWARDS

Departmental Nomination for (National) Vanier scholarship	N/A	2010
COCOON, Vietnam	Travel expenses	2010
INRIA-McGill Workshop on Computational Geometry (twice), Barbados	Travel expenses	2009,2010
University of Victoria Fellowship	\$28,500	2009-2010
Charles Humphrey Graduate Student Award	\$2,500	2010
Simon Fraser University Undergraduate Research Award	\$50	2007
Maple Conference (twice), Waterloo, ON	Travel expenses	2005,2006
NSERC USRA	\$4,500	2005
Simon Fraser University Open Scholarship	\$8,000	2003-2007