

Glencora Borradaile

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Education	Computer Science, Ph.D.	December 2007
	Brown University	Providence, Rhode Island
	Thesis: Exploiting planarity for network flow and connectivity problems. Advisor: Philip Klein.	
	Computer Science, M.Sc.	May 2004
	Brown University	Providence, Rhode Island
	Mathematical and constraint programming.	
	Applied Mathematics, B.Sc. (Honours)	April 2002
	The University of Western Ontario	London, Ontario
	With a concentration in theoretical physics and fluid mechanics.	
Experience	Assistant Professor	September 2009 - present
	School of Electrical Engineering and Computer Science Oregon State University	Corvallis, Oregon
	Postdoctoral Fellow	January 2008 - August 2009
	Department of Combinatorics and Optimization University of Waterloo	Waterloo, Ontario
NSERC Awards	Funding from the Natural Science and Engineering Research Council of Canada.	
	Postdoctoral Fellowship	2008-2009
	Postgraduate Scholarship for Tenure Abroad	2004-2006
	Canada Graduate Scholarship (preempted by above)	2004
	Postgraduate Scholarship for Tenure Abroad	2002-2004
	Undergraduate Research Award	Summer 2002
	Undergraduate Research Award	Summer 2000
Other Notable Awards and Scholarships	Kanellakis Fellowship (Brown University)	Spring 2007
	Brown University Dissertation Fellowship	Fall 2006
	Rowland Lloyd Graduate Fellowship (Canada)	Summer 2006
	Brown University Entrance Fellowship	2002-2003
	Dillon Gold Medal for Applied Math (U. Western Ontario)	May 2002
	Faculty Association Scholarship (U. Western Ontario)	December 2000
	Continuing Admission Scholarship (U. Western Ontario)	1998-2002

Journal Publications

Randomly removing g handles at once.

Glencora Borradaile, James Lee and Anastasios Sidiropoulos.

To appear *Computational Geometry: Theory and Applications* special issue for SoCG 2009.

A polynomial-time approximation scheme for Steiner tree in planar graphs.

Glencora Borradaile, Claire Mathieu, and Philip Klein.

ACM Transactions on Algorithms special issue for SODA 2007, 5(3), 2009.

An $O(n \log n)$ algorithm for maximum st-flow in a directed planar graph.

Glencora Borradaile and Philip Klein.

Journal of the ACM, 56(2), 2009.

Safe and tight linear estimators for global optimization.

Glencora Borradaile and Pascal Van Hentenryck.

In *Mathematical Programming*, 102(3), 2005.

Conference Publications

Randomly removing g handles at once.

Glencora Borradaile, James Lee and Anastasios Sidiropoulos.

In *Proc. of the Symposium on Computational Geometry (SoCG)*, 2009.

Polynomial-time approximation schemes for connectivity problems in bounded-genus graphs.

Glencora Borradaile, Erik Demaine and Siamak Tazari.

In *Proc. of the Int'l Symp. on Theoretical Aspects of Computer Science (STACS)*, 2009.

A polynomial-time approximation scheme for Euclidean Steiner forest.

Glencora Borradaile, Philip Klein and Claire Mathieu.

In *Proc. of the Foundations of Computer Science (FOCS)*, 2008.

The two-edge connectivity survivable network problem in planar graphs.

Glencora Borradaile and Philip Klein.

In *Proc. of the Int'l Colloq. on Automata, Languages and Programming (ICALP)*, 2008.

Steiner tree in planar graph: An $O(n \log n)$ approximation scheme with singly-exponential dependence on epsilon.

Glencora Borradaile, Philip Klein and Claire Mathieu.

In *Proc. of the Workshop of Algorithms and Data Structures (WADS)*, 2007.

A polynomial-time approximation scheme for Steiner tree in planar graphs.

Glencora Borradaile, Claire Kenyon-Mathieu and Philip Klein.

In *Proc. of the Symposium on Discrete Algorithms (SODA)*, 2007.

An $O(n \log n)$ algorithm for maximum st-flow in a directed planar graph.

Glencora Borradaile and Philip Klein.

In *Proc. of the Symposium on Discrete Algorithms (SODA)*, 2006.

Other Publications

Exploiting Planarity for Network Flow and Connectivity Problems

Doctoral Dissertation, Brown University. December 2007.

Planarity Testing

Entry in the *Encyclopedia of Algorithms*, edited by Ming-Yang Kao. 2008.

Invited Talks	Algorithms for graph-constrained knapsack problems.	
	Oregon State University	November, 2009
	Combinatorial Potlatch (workshop), Simon Fraser University	November, 2009
	Designing algorithms for planar graphs.	
	Oregon State University	February, 2009
	Approximating Euclidean Steiner forest.	
	University of Waterloo	September, 2008
	Polynomial-time approximation schemes for connectivity problems in planar graphs.	
	Haifa University	November 2008
	Bell Labs	October 2008
University of Toronto	April 2008	
Duke University	February 2008	
University of Waterloo	February 2008	
Max flows, min cuts and planar graphs, oh my!		
William's College	December 2007	
A polynomial-time approximation scheme for Steiner tree in planar graphs.		
University of Waterloo	May 2007	
INFORMS Annual Meeting	November 2007	
An $O(n \log n)$ algorithm for maximum st-flow in a directed planar graph.		
Dartmouth College	April 2007	
Carnegie Mellon University	March 2007	
IBM Watson Research	October 2006	
Courant Institute at New York University	October 2006	
University of Waterloo	July 2006	
Teaching	Analysis of Algorithms , undergraduate	Winter 2010
	Algorithms and Data Structures , graduate	Fall 2009
	Scheduling Algorithms , undergraduate (U. Waterloo)	Spring 2008
Service	Graduate requirements committee	2009-
	Women in Computer Science (mentoring, Brown U.)	2002-2003, 2006-2008
	Reviewer	
	Several conferences and journals, including STOC, FOCS, SIAM Journal on Discrete Mathematics, SIAM Journal on Computing, Networks, and ACM Transactions on Algorithms.	