Andrew Gainer-Dewar

	Education
2007-2012	Ph.D. (Mathematics) , <i>Brandeis University</i> , Waltham, MA. Thesis: "Γ-species, quotients, and graph enumeration"
2003-2007	Supervisor: Ira M. Gessel B.S. (Mathematics) & B.A. (Philosophy), Mercer University, Macon, GA.
	Professional appointments
2012-2014	Visiting asst. prof. of mathematics, Carleton College, Northfield, MN.
	Research interests
	Enumerative combinatorics, combinatorial graph theory, combinatorial species.
	Professional memberships and recognition
2013-2014	MAA National Project NExT Fellow.
2013-	Member, Mathematical Association of America.
2008-	Member, American Mathematical Society.
	Teaching
2012-2014	Carleton College, 5/yr. Calculus I, Calculus II, Linear Algebra, Graph Theory (indep. study) "The Mathematics of Democracy" (first-year seminar)
2008-2010	Brandeis University (graduate instructor) , 2/yr. Precalculus, Calculus I, Calculus II, Linear Algebra
	Undergraduate scholarship supervised
2013-2014	Boolean numbers and graph-induced sequences , <i>Carleton</i> . Four students, ongoing
2012-2013	On the species of bipartite point-determining graphs, Carleton. Four students, independent original research
	Presentations and talks
	Research (invited)
2014	Γ -species and the enumeration of unlabeled bipartite blocks.
	\circ St. Olaf College Math, Statistics, and Computer Science research seminar
	o Minnesota State University Mankato mathematics seminar
	 University of Minnesota combinatorics seminar
	Research (other)
2014	Enumeration of bipartite graphs and blocks, Joint Mathematics Meetings, Baltimore.
2013	Γ -species and the enumeration of k -trees, Joint Mathematics Meetings, San Diego.
2012	Contemporary graph enumeration and <i>k</i> -trees , <i>Brandeis</i> , Ph.D. defense.

Undergraduate

- 2014 The mathematics of democracy, Carleton.
- 2013 Making strategy count: combinatorial game theory and the surreal numbers, Carleton.
- 2012 Arrow's Theorem and the impossibility of democracy, Carleton & Brandeis.
 Pedagogy
- 2014 **A&I: not just for humanists anymore**, *Carleton Learning and Teaching Center*, panelist. Panel discussion of approaches for running first-year seminars outside the humanities

Service

- 2013- Department Lagar workshop developer and coordinator, Carleton.
- 2013- Department newsletter "Problem of the Week" editor, Carleton.
- 2013 JMM-2014 panel sessions coordinator, Project NExT.
- 2013 Sophmore writing portfolio reader, Carleton.
- 2013- Contributor to Sage computer algebra system, trac: agd.
- 2013- JMM Undergraduate Poster Session Judge.
- 2012- Department social coordinator, Carleton.
- 2012–2013 Math GRE preparation coordinator, Carleton.
- 2008-2012 Graduate student representative and social coordinator, Brandeis.

Publications and preprints

- [1] **2014**. Γ-species and quotient enumeration. Preprint. arXiv: 1401.6202 [math.CO].
- [2] **2013**. Enumeration of labeled and unlabeled k-gonal and polygonal 2-trees and succulents by vertices. Preprint. arXiv: 1309.4481 [math.CO].
- [3] **2013a** (with Ira Gessel). *Counting unlabeled k-trees*. Submitted to the Journal of Combinatorial Theory, Series A. arXiv: 1309.1429 [math.CO].
- [4] **2013b** (with Ira Gessel). *Enumeration of bipartite graphs and bipartite blocks*. Submitted to the Electronic Journal of Combinatorics. arXiv: 1304.0139 [math.CO].
- [5] **2012a**. " Γ -species and the enumeration of k-trees". In: *The Electronic Journal of Combinatorics* 19.4, P45. arXiv: 1208.5993 [math.CO].
- [6] **2012b**. "Γ-species, quotients, and graph enumeration". PhD thesis. Brandeis University. arXiv: 1204. 1402 [math.CO].