Andrew Gainer-Dewar

	Education
2007–2012	Ph.D. (Mathematics), <i>Brandeis University</i> , Waltham, MA. Thesis: "Γ-species, quotients, and graph enumeration" Supervisor: Ira M. Gessel
2003–2007	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, compute algebra.
	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, Carleton.
2012 2012	Four students, planned On the species of bipartite point-determining graphs, <i>Carleton</i> .
2012-2013	Four students, independent original research
	Selected presentations
2014	
2013	Making strategy count: combinatorial game theory and the surreal numbers, Calleton, General (pre-major) audience.
2013	Γ -species and the enumeration of k -trees, <i>Joint Mathematics Meetings</i> , San Diego.
2012	Contemporary graph enumeration and k-trees, Brandeis, Ph.D. defense.

audiences.

2012 Arrow's Theorem and the impossibility of democracy, Carleton & Brandeis, General

Service

- 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.

Grants

2013–2014 MEX workshop, Carleton Future Learning Technologies Group, pending.

Will develop and run series of short workshops on MEX with supporting materials (templates, demonstrations, etc.), allowing faculty to require its use in their courses.

Publications and preprints

- [1] **2013**. Enumeration of labeled and unlabeled k-gonal and polygonal 2-trees and succulents by vertices. Preprint. arXiv: 1309.4481 [math.CO].
- [2] **2013a** (with Ira Gessel). *Counting unlabeled k-trees*. Submitted to the Journal of Combinatorial Theory, Series A. arXiv: 1309.1429 [math.CO].
- [3] **2013b** (with Ira Gessel). *Enumeration of bipartite graphs and bipartite blocks*. Submitted to the Electronic Journal of Combinatorics. arXiv: 1304.0139 [math.CO].
- [4] **2012a**. " Γ -species and the enumeration of k-trees". In: *The Electronic Journal of Combinatorics* 19.4, P45. arXiv: 1208.5993 [math.CO].
- [5] **2012b.** "Γ-species, quotients, and graph enumeration". PhD thesis. Brandeis University. arXiv: 1204.1402 [math.CO].