

# Tom Kelly - Curriculum Vitae

University of Waterloo  
Department of Combinatorics & Optimization  
200 University Avenue West,  
Waterloo, ON, N2L 3G1  
Born: April 28, 1993

## Education

### University of Waterloo

Ph.D. Candidate, Department of Combinatorics & Optimization

### Princeton University

A.B., Mathematics, *Cum Laude* 2015.

## Awards

### Middleton Miller '29 Prize

awarded for best independent work in mathematics,  
Princeton University, 2015.

## Publications

### Submitted Articles

T. Kelly, C-H Liu. Minimum Size of Feedback Vertex Sets of Planar Graphs of Girth at least Five, European Journal of Combinatorics, accepted. arXiv:1603.04559

T. Kelly, C-H Liu. Size of the Largest Induced Forest in Subcubic Graphs of Girth at least Four and Five, Journal of Graph Theory, submitted. arXiv:1603.03855

T. Kelly, L. Postle. Exponentially Many 4-List-Colorings of Triangle-Free Graphs on Surfaces, Journal of Graph Theory, submitted. arXiv:1602.04717

### Published Articles

S. Connolly, Z. Gabor, A. Godbole, B. Kay, T. Kelly. Bounds on the Maximum Number of Minimum Dominating Sets, Discrete Mathematics, Volume 339, Issue 5, May 2016, pp. 1537–1542

## Presentations

### Conference Presentations

“Large Induced Forests in Planar and Subcubic Graphs of Girth 4 and 5”, SIAM DM '16, Atlanta, GA, USA, June 6–10, 2016.

### Seminar Presentations

University of Waterloo, Graph Theory Seminar, November 2015.

## Teaching Experience

### Teaching Assistant at University of Waterloo

Math 117 - Calculus 1 for Engineering, Fall 2015.

Math 127 - Calculus 1 for the Sciences, Winter 2016.

CO 342 - Introduction to Graph Theory, Spring 2016, Fall 2016.