

Tom Kelly - Curriculum Vitae

University of Waterloo

Department of Combinatorics & Optimization

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Education **Ph.D. Candidate in Combinatorics & Optimization**

University of Waterloo, Waterloo, ON.

A.B. Mathematics

Princeton University, Princeton, NJ, 2015, *Cum Laude*.

Awards **Middleton Miller '29 Prize**

Awarded for best independent work in mathematics (\$1500 value),
Princeton University, 2015.

Publications **Submitted Articles**

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](https://arxiv.org/abs/1603.03855)

T. Kelly, L. Postle. Exponentially Many 4-List-Colorings of Triangle-Free Graphs on Surfaces, *Journal of Graph Theory*, accepted. [arXiv:1602.04717](https://arxiv.org/abs/1602.04717)

Published Articles

T. Kelly, C-H Liu. Minimum Size of Feedback Vertex Sets of Planar Graphs of Girth at least Five, *European Journal of Combinatorics*, 61C (2017), 138-150, to appear.

S. Connolly, Z. Gabor, A. Godbole, B. Kay, T. Kelly. Bounds on the Maximum Number of Minimum Dominating Sets, *Discrete Mathematics*, 339 (2016), 1537–1542.

Presentations **Conference Presentations**

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

Seminar Presentations

University of Waterloo, Graph Theory Seminar, Nov 2015.

Conferences Attended

New Trends in Graph Coloring, Banff, AB, Oct 2016.

Younger @ 80 Directed Graphs Conference, Waterloo, ON, July 2016.

SIAM Conference on Discrete Mathematics, Atlanta, GA, June 2016.

Teaching
Experience

Teaching Assistant at University of Waterloo

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

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

Math 117 - Calculus 1 for Engineering, Fall 2015.