The

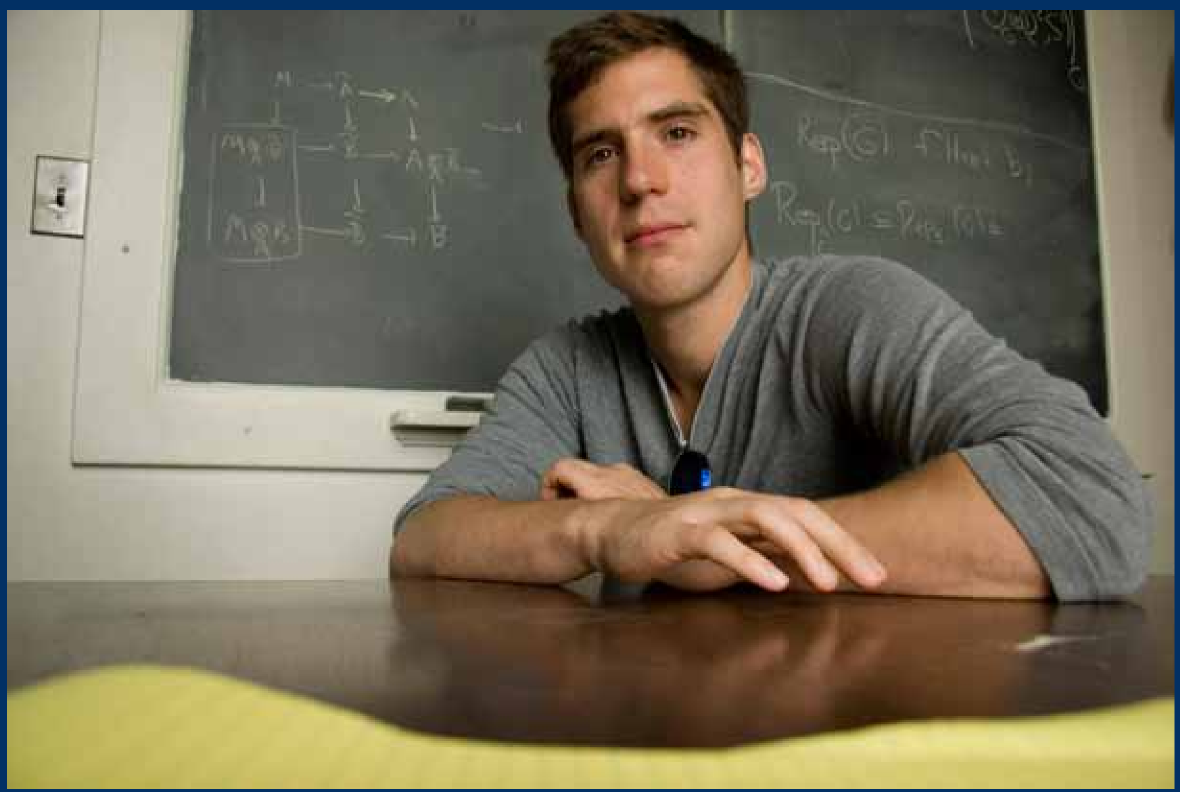
Department of Mathematics

at the University of Toronto

Presents the 15th Annual

R.A. Blyth Lectures in Mathematics

CATEGORIFICATION IN MATHEMATICS



Professor Jacob Lurie, *Harvard University*

This three-lecture series will center around the idea of “categorification” in mathematics; that is, the idea of replacing concrete mathematical objects (such as numbers) by more abstract mathematical objects which they represent (such as finite sets).

In the first lecture, I will introduce the general idea and give some elementary examples. In the second lecture, I will discuss categorification in the context of solving polynomial equations, and explain how it leads to the theory of “derived” algebraic geometry. In the third lecture, I will survey some of the applications and successes of this theory.

Lecture 1	**Lecture 2**	**Lecture 3**
Wed, March 17	Thurs, March 18	Fri, March 19
4:10 PM	4:10 PM	4:10 PM
BA1160	BA1130	BA1170

Reception to follow Lecture 1 -- All Are Welcome
Mathematics Lounge, 6th floor, Bahen Center
Food and Beverages will be Provided

More information can be found at: http://www.math.toronto.edu/cms/blyth-lecture-series/
All lectures and the reception are held in the Bahen Center for Information Technology at 40 St. George St., Toronto, ON