



COLLOQUIUM SPEAKER SERIES

Mathematics & Computer Sciences

Friday, December 03, 2010

12:00-12:50 in D674



Dr. Tim Trudgian

postdoctoral fellow

University of Lethbridge

Ph.D. 2010, Oxford, UK

B.Sc. 2006, Australian National University

Research interests:

Analytic number theory

Riemann zeta-function.

Some Mathematics in Music

This talk will explain some of the (elementary) mathematics behind musical harmonics:

why one combination of notes produces a pleasant sound, while another is abominable;

why, in Western music, there are twelve notes in a scale;

and the reasons that instruments can be tuned very accurately “by ear” alone.

Mathematics at a level beyond secondary school will not be assumed, nor will any music theory.

There will be refreshments and snacks.

Open to all!