

University of North Texas

Undergraduate Mathematics Colloquium

Presents

Howard Skogman

College of Brockport, SUNY

Tuesday, October 14, 2014 at 4:00 p.m. in GAB 105



Howard Skogman

Employment:

Associate Professor and Graduate Program Director at the College at Brockport, SUNY

Education:

BA Physics and Mathematics, Dartmouth College (1994)
MA Mathematics, University of California at San Diego (1996)
PhD Mathematics, University of California at San Diego (1999)

Current Research:

Number Theory (Automorphic Forms)
Graph Theory

Interests and Activities:

Guitar and Soccer

Homepage:

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A pre-lecture reception with cookies, coffee, and tea will be held at 3:30 p.m. in the General Academic Building, Room 472.

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The Heat Equation on Graphs

The "Heat Equation" arises in a number of different situations and in this talk we will present a version of this equation for graphs (either directed or undirected graphs). The generality of graphs allow one to model many "real world" problems and attempt to find optimal solutions to these problems. We will show how to solve this version of the Heat Equation on graphs under more and more general assumptions such as non-constant edge weightings and a "noisy" version of the Heat Equation. This talk should be accessible to all undergraduate math majors.

