COLLOQUIUM SPEAKER SERIES
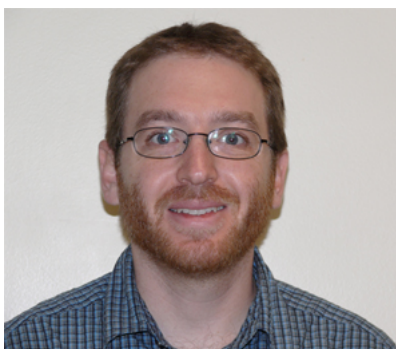## Mathematics and Computer Sciences

Friday June 5
11:00-11:50, room D630

Dr. Micah B. Milinovich
Assistant Professor, University of Mississippi
BIO:
Ph.D., University of Rochester, 2008
M.A. Mathematics, University of Rochester, May 2002
B.A. Mathematics, University of Rochester, May 2001.

RESEARCH INTERESTS:
Analytic Number Theory,
theory of the Riemann zeta-function, L-functions,
and multiplicative number theory.

MEAN-VALUE ESTIMATES

FOR THE RIEMANN ZETA-FUNCTION.

Abstract
The distribution of the prime numbers within the integers is intimately connected to the distribution of the zeros of the Riemann zeta-function. For this reason, questions concerning the zeros of the Riemann zeta-function are considered fundamental in analytic number theory. A natural way to study the zeros of an analytic function is through the use of mean-value theorems, that is, by studying averages of the function along a line, around a disc, or over a discrete set of points. In this talk we give an overview of these ideas and conclude by discussing some results and conjectures concerning mean-value estimates for the Riemann zeta-function.

STUDENTS ARE ENCOURAGED TO ATTEND !