

Matt Elsey

Department of Mathematics
525 Church Street
2074 East Hall
Ann Arbor, MI 48109-1043

Phone: (734) 763-5273
melsey@umich.edu
<http://www-personal.umich.edu/~melsey/>

Education

Ph.D. Applied and Interdisciplinary Mathematics, University of Michigan, (in progress).

B.S. Mathematical Sciences (Numerical and Applied Analysis), University of Michigan, 2006, *with Highest Distinction*.

Research Experience

Research Assistant 2006–present
Selim Esedoglu University of Michigan
Development of algorithms for simulation of interfacial motions.

Undergraduate Research Project 2005
James Rossmannith University of Michigan
REU (Research Experience for Undergraduates) project. Development and testing/analysis of C++ version of unstructured mesh generation code.

Publications

M. Elsey. **Efficient and Accurate Unstructured Mesh Generation.** *Unpublished REU Report.* (2005).

M. Elsey, S. Esedoglu. **Analogue of the Total Variation Denoising Model in the Context of Geometry Processing.** *Submitted.*

Conferences Attended

Trends in Mathematical Imaging and Surface Processing, Mathematisches Forschungsinstitut. *Oberwolfach, Germany. January 2007.*

International Conference on Industrial and Applied Mathematics (ICIAM) Congress, *Zürich, Switzerland, July 2007.*

Teaching Experience

Graduate Student Instructor, Calculus II, University of Michigan, Fall 2007.

Graduate Student Instructor, Calculus I, University of Michigan, Fall 2006, Winter 2007, Spring 2007.

Undergraduate Student Instructor, Michigan Math and Science Scholars Program, “Fortunes Made and Lost: Financial Mathematics,” Summer 2005.

Skills

Proficiency in C++, MATLAB, LaTeX, and Microsoft Office Package.

Communication and Leadership: Manager/member, University of Michigan Intramural Basketball Champions (2006), and NIRSA Midwest Regional Extramural Tournament Champions (2006, 2007).