

ADAM G. WEYHAUPT

Department of Mathematics and Statistics, Box 1653
Southern Illinois University Edwardsville
Edwardsville, IL 62026

aweyhau@siue.edu
<http://www.siue.edu/~aweyhau/>
(618) 650-2220

Education

Ph.D. in Mathematics, Indiana University, August 2006

New Families of Embedded Triply Periodic Minimal Surfaces of Genus Three in Euclidean Space
Advisor: Matthias Weber

Master of Arts in Mathematics, Indiana University, 2002

Bachelor of Arts in Mathematics (*summa cum laude*), Eastern Illinois University, 2001

Bachelor of Science in Mathematics and Computer Science (*summa cum laude*), Eastern Illinois University, 2001

Employment

Southern Illinois University Edwardsville; Assistant Professor *August 2006 to present*

Indiana University; Associate Instructor (graduate student) *Fall 2001 - Summer 2006*

Taught Elementary Math for Teachers and Brief Calculus (the latter in the “groups” program, where students were typically first generation college students with socioeconomic disadvantages). Also taught and designed a GRE prep course. At various times, tutored, graded, and assisted various courses.

Teaching

Senior projects

Have directed the following senior projects:

1. Paul Antonacci. “Vanishing mean curvature and related properties.” January 2009.
2. Elizabeth Schaab. “Finding bounds for the number of Sudoku squares.” July 2008.
3. Anthony Scoles. “An investigation of closed geodesics on regular polyhedra.” May 2008.
4. Glenn Harris. “Billiards in polygons using unfoldings.” April 2007.
5. Meagan Heckert. “Understanding special sudoku solutions through geometry and error correcting codes.” April 2007.

Have served on ten senior project committees in addition to the above.

Masters theses

I am currently the thesis director for Darren Garbuz (expected completion Fall 2009). I have served on the thesis committee for Coral Kimble (May 2009).

Courses

Have taught Intro to Logic, College Algebra, Precalculus (3 times), Calculus I, Calculus II (2 times), Discrete Mathematics (2 times), Logic and Reasoning (3 times), Real Analysis I, Real Analysis II, Complex Analysis, Differential Geometry.

Papers and Publications

- 1) A note on some bounds for permanents of $(0, 1)$ -matrices. J. Interdiscip. Math. 12 (2009), no. 1, 123–128.
- 2) *Deformations of the gyroid and Lidinoid minimal surfaces*. Pacific J. Math. 235 (2008), no. 1, 137–171.
- 3) *New Families of Embedded Triply Periodic Minimal Surfaces of Genus Three in Euclidean Space*. PhD thesis, Indiana University, Bloomington, Indiana, August 2006.

Presentations and Professional Activities

Professional Talks

- AMS Central Section meeting; special session on minimal and CMC surfaces, *Gyroids, Lidinoids, and the moduli space of embedded triply periodic minimal surfaces of genus 3*, April 2008
- Joint Meetings of the AMS-MAA, *On the moduli space of triply periodic minimal surfaces*, January 2008
- Illinois section of the MAA, *An illustrated stroll through the forest of minimal surfaces*, March 2007.
- Joint Meetings of the AMS-MAA, *Deformations of the gyroid and Lidinoid minimal surfaces*, January 2007
- Eastern Illinois University Colloquium, *Deformations of triply periodic minimal surfaces: A new family of gyroids*, January 2006
- Indiana University Geometry Seminar, *A deformation of the gyroid minimal surface*, November 2005
- Mathematical Association of America Indiana Section Fall Meeting, *Being a mathematics graduate student* (panel discussion), November 2005
- Indiana University Geometry Seminar, *Riemann's minimal surface*, Fall 2003
- Indiana University Graduate Student Seminar, *A gentle introduction to Riemann's minimal surface*, Fall 2003

Organizer of special session at meeting

April 2008

Co-organizing a special session at the Spring 2008 Central Section meeting of the American Mathematical Society.

American Institute of Mathematics Workshop

June 2005

Was an invited participant at the AIM Workshop *Moduli Spaces of Properly Embedded Minimal Surfaces*.

MSRI Summer Graduate Program

Summer 2003

Participated in the Mathematical Sciences Research Institute's Summer Graduate Program in

Mathematical Graphics at Reed College in Portland, Oregon.

Professional Memberships

Current member of the American Mathematical Society and the Mathematical Association of America.

Professional service

Refereed paper for a well-respected international journal. Served as co-coordinator of the Project NExT sessions at Mathematical Association of America “Mathfest” annual meeting in Madison, Wisconsin (Spring/summer 2008). Also served as a faculty mentor for the graduate student paper session at Mathfest (Summer 2008).

University service

Advisor of Math Club / Pi Mu Epsilon (fall 2007 - present). Departmental representative to faculty senate (fall 2007 - spring 2011). Chair of the faculty development council of the faculty senate (2009-2010). Member of department instructor search committee (2006) and tenure-track search committee (2007-8). Have participated in departmental support for spring math contests and SIUE preview, along with various formal academic events (graduations and convocations). Meridian scholar selection committee member (fall 2008 - spring 2011). Member of department graduate committee (spring 2008 - fall 2009).

Grants, Awards, and Honors

2007-2008 Project NExT Fellow

Summer 2007

Project NExT is a national selective professional development program for recent Ph.D.’s in the mathematical sciences. Was organizer of Project NExT 2007 fellow sessions at 2008 Mathfest. Evaluated graduate student talks during Mathfest 2008.

Southern Illinois Univ. Edwardsville 2007 Summer Research Fellowship

2007-2008

Received \$8000 internal grant for the study of deformations of triply periodic minimal surfaces.

National Science Foundation conference support

Spring 2006

Along with three other graduate students, received NSF grant DMS-0555730 in the amount of \$14,750 to organize a graduate student topology conference with over 100 national and international attendees.

Rothruck Teaching Award for Associate Instructors

May 2004

National Science Foundation VIGRE Graduate Fellowship

August 2001