

Benjamin J. Galluzzo

Education

- 2003 – Present** **The University of Iowa**, Iowa City, IA
Ph.D., Applied Mathematical and Computational Sciences, Expected May 2009
Advisors: Lihe Wang (Mathematics), Walter A. Illman (Geoscience)
Thesis Topic: Determination of Subsurface Flow Parameters
- 2000 – 2002** **Boston University**, Boston, MA
M.A., Mathematical Finance
- 1993 – 1997** **The University of Iowa**, Iowa City, IA
B.S., with honors, Mathematics
Budapest Semesters in Mathematics, Budapest, Hungary, 1995 - 96

Work Experience

- Client Strategies Analyst** *Atlantic Trust Pell Rudman*, 1999 – 2002
- Fund Reporting Specialist** *The Pioneer Group*, 1999
- Fund Accountant/Senior Fund Accountant** *The Pioneer Group*, 1997 - 1999

Teaching Experience

Course Developer/Instructor *Introduction to Applied Mathematics Research*, Fall 2007

- Proposed new course to fill void in undergraduate curriculum.
- Designed and developed entire curriculum.
- Lectured over two modules.
- Created computer simulations for the modules.
- Developing new modules for spring 2009 offering.

Graduate Research Mentor VIGRE Heartland REU, Summer 2008

- Assisted in teaching an undergraduate workshop on linear algebra and Markov chains.
- Mentored undergraduate group in development of a pharmacokinetics project.

Instructor *Trigonometry*, Fall 2005 and *Algebra II*, Fall 2004, Spring 2005, and Spring 2006

- Administered all aspects of course, including lectures, exams and grades.
- Designed group activities to enhance curriculum.

Teaching Assistant *Mathematics for the Biological Sciences*, Fall 2003; *Calculus II*, Spring 2004; *Engineering Calculus II*, Fall 2006 and *Mathematics for Business*, Fall 2008

- Run group oriented discussion and homework sessions.
- Write and grade quizzes; currently administering interactive one-at-a-time quizzes.

Tutor Mathematics Tutorial Laboratory (Fall 2003 – Present)

- Provide one-on-one assistance to Algebra I through Multivariate Calculus students.

Selected Professional Presentations

Math-in: 24 Hours of Math

MAA Contributed Paper Session: *Promoting Deep Learning for Mathematics Majors through Experiential Learning, Writing, and Reflection*, JMM, Washington D.C., January 2009

Parameter Determination for Subsurface Fluid Flow Modeling

AMS Session on Mathematical Physics: JMM, Washington D.C., January 2009

A Modular Approach to Teaching a Course in Application-Based Problem Solving

Contributed Paper Session: *Actual Problems, Actual Mathematics—Applied Mathematics in Science and the Classroom*, MathFest, Madison, WI, August 2008 and Pacific Northwest MAA Section Meeting, Carroll College, June 2008

Groundwater Flow Modeling: A Finite Difference Approach

Graduate Student Paper Session, MathFest, Madison, WI, August 2008 and Kappa Mu Epsilon/Sigma Pi Sigma Award Ceremony, William Jewell College, April 2008

The Mathematical Contest in Modeling: An Advisor's Perspective

Iowa MAA Section Meeting, Simpson College, April 2008

Epidemiology: Modeling Epidemics and Endemics

Heartland Partnership Talk, Luther College, April 2008

Workshop: Introduction to Groundwater Modeling Finite Difference Methods

University of Wisconsin – Eau Claire, March 2008

Subsurface Fluid Flow Modeling

UWEC Earth Science Seminar, University of Wisconsin – Eau Claire, March 2008

An Intuitive Approach to Collision Modeling using Complementarity

Heartland Partnership Talk, Truman State University, November 2006

Selected Service

Coordinator/Organizer

Midwest Mathematical Modeling Competition, 2008

Created a regional 24-hour math modeling contest for undergraduates.

COMAP's Mathematical Contest in Modeling (MCM), 2008

Initiated University of Iowa participation in the MCM, supervised all (local) aspects of the contest and advised two undergraduate teams.

Workshop on Organizing and Coaching Math Modeling Teams, 2007 & 2008

Appointed/Elected

- Co-Chair, The University of Iowa Graduate Student Senate Travel Funds Committee, 2008 -09
- Executive Council, The University of Iowa Graduate Student Senate, 2007 – 08
- Graduate Council, The University of Iowa (one of four students campus-wide) 2007 – 08
- Council on Teaching, The University of Iowa (one of four students campus-wide) 2006 – 07

Volunteer

- Mentor, Midwest Undergraduate Mathematics Symposium
- Iowa High School Mathematics Competition
- Sonia Kovalevsky Day at The University of Iowa

Awards, Honors and Memberships

- NSF – VIGRE Fellowship, 2007 – 08 & 2008 – 09
- Iowa NExT Fellow, 2008 - Present
- The University of Iowa Outstanding Teaching Assistant Award, 2006 (25 total awarded)
- AMCS Summer Merit Fellowship, 2005, 2006, & 2007
- Catharine Wegner Outstanding Mathematics Teaching Assistant Award, 2004 & 2005
- Hugh Vollrath Ross Summer Tuition Scholarship, 2004
- Member of AMS, MAA, SIAM.