

# Joe Geisbauer

Department of Mathematics  
University of Nebraska-Lincoln  
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**Education:**                   **Ph.D Mathematics**, Anticipated May 2013  
University of Nebraska-Lincoln

**M.S. Mathematics**, May 2009  
University of Nebraska-Lincoln

**B.S. Mathematics**, May 2007  
University of Arkansas-Fort Smith

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**Employment:**               **Department of Mathematics, University of Nebraska-Lincoln**  
Graduate Teaching Assistant, 2007-Present

**Department of Mathematics, University of Arkansas-Fort Smith**  
Teaching Assistant, 2006-2007  
Tutor, 2006-2007

**Johns Hopkins University Center for Talented Youth Program**  
Teaching Assistant, Summer 2006

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**Awards:**                   **MCTP Advanced Trainee Fellowship**, 2012  
This fellowship is awarded on academic merit. It is a research fellowship that also focuses on future faculty development. I am supported for the Spring and Summer semesters by this NSF grant. The grant has a \$14,475 stipend.

**Preparing Future Faculty Fellowship**, 2011  
Upon nomination from the department, PFF fellows begin a mentorship with a faculty member in their area from another institution, in particular an institution that does not grant a Ph.D., to learn about the roles of faculty in this setting.

**Lloyd Jackson Emeritus Faculty Fellowship**, 2010-2011  
This is a one year fellowship based on academic performance providing a research stipend of \$750 in addition to a graduate teaching assistant stipend.

**Chancellor's Doctoral Fellowship**, 2007-2009  
This is a two year fellowship awarded to incoming graduate students providing a \$3,500 stipend in addition to a graduate teaching assistant stipend.

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**Teaching:** **Graduate Teaching Assistant-University of Nebraska-Lincoln**  
Instructor of Record for the following courses:  
Calculus I  
Calculus III  
College Algebra  
Contemporary Math  
Math in the Middle Graduate Teaching Assistant:  
Capstone Course  
Master's Paper Mentor  
REU Graduate Assistant, Control Theory  
IMMERSE Graduate Mentor, a six-week program preparing students  
to enter graduate school  
Recitation Instructor for the following courses:  
Calculus I  
Business Calculus

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**Research:** **Research Interests**  
Parabolic Differential Equations, Regularity Theory, Calculus of Variations

**Publications**

M. Foss and Joe Geisbauer. *Partial regularity for subquadratic parabolic systems with continuous coefficients*. Manuscripta Mathematica. 2011,10.1007/s00229-011-0502-5.

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**Talks:** **Invited**  
"Partial regularity for subquadratic parabolic systems with continuous coefficients."  
AMS Central Section Meeting, University of Nebraska-Lincoln, October 2011  
"Partial Regularity for Parabolic Systems."  
Analysis Seminar, Kansas State University, April 2011

**Contributed Talks**  
"Fancy Calculus."  
Graduate Student Seminar, University of Nebraska-Lincoln, September 2011  
"Why must everything that goes up always come down?"  
Graduate Student Seminar, University of Nebraska-Lincoln, April 2011  
"Partial Regularity for Parabolic Systems with Subquadratic Growth."  
MAA and AMS Joint Meetings 2011, New Orleans, LA, January 2011  
"Partial Regularity for Parabolic Systems with Subquadratic Growth."  
PDE Seminar, University of Nebraska-Lincoln, October 2010  
"Reducing differential operators and solving differential equations via systems of quadratic equations with the help of Frobenius and others."  
Graduate Student Seminar, University of Nebraska-Lincoln, Oct. 2009  
"Reducibility of Second Order Operators with Constant Coefficients."  
Oklahoma-Arkansas MAA Section Meeting, Northeastern State University, March 2007.

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**Forums:****Conferences:**

MAA and AMS Joint Meetings,  
New Orleans, LA, January 2011  
Harmonic Analysis and PDE Seminar,  
University of Nebraska-Lincoln, April 2010  
Nebraska Conference for Undergraduate Women in Mathematics (NCUWM),  
University of Nebraska-Lincoln, January 2010  
Prairie Analysis Seminar,  
Kansas State University, October 2009  
Oklahoma-Arkansas MAA Section Meeting,  
Northeastern State University, March 2007  
MAA and AMS Joint Meetings,  
New Orleans, LA, January 2007  
Oklahoma-Arkansas MAA Section Meeting,  
University of Arkansas-Fayetteville, 2006  
MAA and AMS Joint Meetings,  
San Antonio, TX, January 2006

**Seminars:**

Partial Differential Equations Seminar,  
University of Nebraska-Lincoln, 2009-Present

**Workshops:**

Campuswide Graduate Teaching Assistants Workshop,  
University of Nebraska-Lincoln, 2007-Present

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**Service:**

AMS Sectional Meeting Graduate Student Poster Session Organizer,  
University of Nebraska-Lincoln, Fall 2011  
UNL Graduate Department Representative,  
The Young Mathematicians Conference, 2011  
NCUWM Organizing Committee Member, 2009 and 2010  
Math Day Volunteer, 2007-Present  
Panelist for the following:  
Applying to Graduate School, Pi Mu Epsilon Meeting, 2011  
Talking with Experienced TAs, New Graduate Student Orientation, 2011  
How to Survive the First Year of Graduate School, IMMERSE, 2010  
How to Survive Graduate School, REU, 2009  
Teaching Your Own Course, Teaching Mathematics Seminar, 2009

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**Organizations:**

SIAM, 2007-Present  
AMS, 2007-Present  
MAA, 2007-Present