

# Janine E. Janoski

Clemson University  
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## Education

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Ph.D. Mathematical Science, Clemson University, May 2012  
Dissertation Title: A Collection of Problems in Combinatorics  
Dissertation Committee Chair: Neil Calkin

M.S. Mathematical Science, Clemson University, May 2008  
Thesis Title: Matrices with Prescribed Row and Column Sum  
Thesis Advisor: Neil Calkin

B.S. Mathematical Science, University of Delaware, May 2006  
Thesis Title: J-omino Packings  
Thesis Advisor: John A. Pelesko

## Teaching Awards

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Outstanding Graduate Teaching Award, University Wide, Clemson University, Spring 2009  
Outstanding Graduate Teaching Assistant Award, College of Engineering and Science, Clemson University, Spring 2009  
Outstanding Teaching Assistant Award, Department of Mathematics, Clemson University, Spring 2009  
Excellence in Teaching Award, Department of Mathematics, Clemson University, Spring 2008  
Excellence in Teaching Award, Department of Mathematics, Clemson University, Spring 2007

## Undergraduate Mentoring

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Mentor Clemson Computational Number Theory and Combinatorics REU  
Department of Mathematical Sciences  
Clemson University  
Summer 2009 and Summer 2010

Mentor for three undergraduates and one advanced high school student each summer. Responsibilities included: meeting with the group daily to discuss progress as well as new directions for their research, teaching the students Sage and parallel computing, helping the group prepare research presentations for conferences, and helping edit their final REU write up.

## Publications

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Neil Calkin, Kevin James, Janine E. Janoski, Sarah Leggett, Bryce Richards, Stephanie Thomas, Computing Strategies for Graphical Nim, *Congressus Numerantium*. 202 (2010): 171-186  
Janine E. Janoski, Neil Calkin, Matrices with Row and Column sum 2, *Congressus Numerantium*. 192, (2008): 19-32  
Brian Bowers, Neil Calkin, Kerry Gannon, Janine E. Janoski, Katie Joes, Anna Kirkpatrick, The Log Concavity of the Partition Function, (in preparation)

## Teaching Experience

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Teacher of Record, Department of Mathematical Sciences, Clemson University, Fall 2007-Present

Responsibilities included: writing lectures, creating and grading in-class activities, creating and grading written and online homework, writing exams, holding office hours.

Courses Taught:

MthSc119, Introduction to Discrete Methods for Math Majors, Fall 2011, 2 sections

MthSc206, Calculus of Several Variables for Math and Science Majors, Spring 2011

MthSc206, Calculus of Several Variables for Math and Science Majors, Fall 2010

Courses Taught with Common Exams:

MthSc207, Multivariable Calculus for Business Majors, Spring 2010

MthSc106, Calculus of One Variable I for Math and Science Majors, Fall 2009

MthSc207, Multivariable Calculus for Business Majors, Spring 2009

MthSc207, Multivariable Calculus for Business Majors, Fall 2008, 2 sections

MthSc102, Introduction to Mathematical Analysis for Business Majors, Spring 2008

MthSc102, Introduction to Mathematical Analysis for Business Majors, Fall 2007, 2 sections

Teaching Assistant, Department of Mathematical Sciences, Clemson University, Fall 2006-Spring 2007

Responsibilities included holding problem review sessions, writing quizzes, grading, and holding office hours.

Courses Assisted:

MthSc106, Calculus of One Variable I for Math and Science Majors, Spring 2007

MthSc105, Precalculus for Math and Science Majors, Fall 2006

## Presentations

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“Maximal Weight Vectors in the Null Space of Matrices with Row and Column Sum 3”

41st Southeastern International Conference on Combinatorics, Graph Theory, and Computation, Florida Atlantic University, March 2010

“Enumeration of  $k$ -regular Graphs”

Southeast SIAM Student Conference, Georgia Institute of Technology, March 2010

“A recurrence for lexicographically ordered binary matrices”

5th Annual Graduate Student Combinatorics Conference, University of Kentucky, March 2009

“Matrices with Row and Column Sum 2”

Palmetto Number Theory Series IX, Clemson University, February 8, 2009

“Matrices with Row and Column Sum 2”

39th Southeastern International Conference on Combinatorics, Graph Theory, and Computation, Florida Atlantic University, March 2008

“Matrices with Row and Column Sum 2”

GSS Clemson Mathematics Graduate Student Seminar, Clemson, February 18, 2008

“A Mathematical Model of Random Packing”

Eastern Sectional Meeting of the AMS, University of Delaware, April 2 2005

“A Mathematical Model of Random Packing”

Eastern Pennsylvania and Delaware Conference, University of Delaware November 6 2004

“Tiling and Voids in the Aztec Diamond”

Third Annual Research Symposium, University of Delaware, August 2005

“Void Spaces in Random Packings”

Second Annual Research Symposium, University of Delaware, August 2004

## Conferences Attended

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MAA-AMS Joint Mathematics Meetings, January 2010 and January 2011  
Supercomputing Conference, November 2010  
Clemson Mini-Conference on Discrete Mathematics and Algorithms, October 2008, 2009, and 2010  
Southeastern International Conference on Combinatorics, Graph Theory, and Computation, March 2009 and March 2010  
Palmetto Number Theory Series, September 2007, December 2007, April 2008, February 2009, February 2010  
Random Matrix Theory Workshop, July 2009  
6th Graduate Student Combinatorics Conference, March 2009  
Southeast Regional Meeting On Numbers, April 2008  
Algebra and Discrete Mathematics Seminar, Clemson University, September 2006-present  
Eastern Sectional Meeting of the American Mathematics Society, April 2005  
Eastern Pennsylvania and Delaware Conference, November 2004

## Travel Grants and other Academic Awards

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Professional Development Committee Travel Grant, Clemson University, Spring 2011  
Personal Enrichment Travel Grant Recipient, Clemson University, Spring 2010  
Personal Enrichment Travel Grant Recipient, Clemson University, Spring 2009  
Personal Enrichment Travel Grant Recipient, Clemson University, Spring 2008  
Sigma Xi 2006 Undergraduate Thesis Award, Spring 2006  
Sigma Xi Scientific Research Society Presentation Award, University of Delaware, Fall 2005  
Mathematical Contest in Modeling Meritorious Winner, Spring 2005  
U.D. Scholar Award, Fall 2004- Spring 2006

## Academic Service

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Sage Workshop Instructor: Mathematics and Sage, Supercomputing Conference, November 2010  
Volunteer: Clemson Calculus Challenge, April 2010 and April 2011  
Society of Industrial and Applied Mathematics President, Clemson University, Fall 2009-2010  
Volunteer, WISE-Day, recruiting activity for groups underrepresented in science and engineering, April 2009  
Member, Phi Beta Kappa National Academic Honor Society, April 2006-Present

## Service

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Professional Development Committee Chair, Clemson University, Fall 2010-present  
Graduate Student Government Mathematical Science Department Senator, Fall 2008-present  
Volunteer Graduate Student Orientation, Clemson University, Fall 2010 and Fall 2011  
Professional Enrichment Grant Application System Developer, Clemson University, Fall 2010  
Personal Enrichment Grant Committee, Fall 2009-2010  
Parking Review Board, Fall 2008-Spring 2009