

# MARIE A. SNIPES

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ACADEMIC EMPLOYMENT      Kenyon College, Gambier OH  
Assistant Professor, July 2011 – present  
Visiting Assistant Professor, July 2009 – June 2011

EDUCATION      University of Michigan, Ann Arbor, MI  
Ph.D. in Mathematics, August 2009  
    Advisors: Juha Heinonen and Mario Bonk  
    Dissertation: *Flat forms in Banach spaces*  
M.S. in Mathematics, May 2005  
  
Harvey Mudd College, Claremont, CA  
B.S. in Mathematics, May 1999,  
    with Distinction and Honors in Mathematics

RESEARCH INTERESTS      Geometric measure theory, analysis in Banach spaces, functional analysis, differential geometry, and image processing.

UNDERGRAD. RESEARCH STUDENT      Kevin Gerstle (Kenyon College Class of 2011)  
*Computer simulations of Brownian motion and applications to harmonic functions (Summer 2010)*

HONORS AND AWARDS      Kenyon College, Gambier, OH  
Educational Advancement Foundation grant for Inquiry Based Learning Teaching Support, 2010-2011  
Project NExT Fellow, 2009-2010  
  
University of Michigan, Ann Arbor, MI  
National Physical Science Consortium Fellow, 2003-2009  
  
Harvey Mudd College, Claremont, CA  
Chavin Prize for best undergraduate senior thesis, 1999

- PUBLICATIONS      Snipes, M. A., *Flat forms in Banach spaces*. Accepted by the Journal of Geometric Analysis.
- Snipes, M. A., and Ward L. A. *Convergence properties of harmonic measure distributions for planar domains*. Complex Var. Elliptic Equ., Vol. 53 (2008), 897--913.
- Snipes, M. A., and Ward L. A. *Realising step functions as harmonic measure distributions of planar domains*. Ann. Acad. Sci. Fenn. Math., Vol. 30 (2005), 353--360.
- INVITED  
PRESENTATIONS      *Center for Industrial and Applied Mathematics/School of Mathematics and Statistics Research Seminar*, University of South Australia, 1 Jul. 2011.
- Spring Awards Banquet Keynote Speaker*, Ohio Wesleyan University, 12 Apr. 2011.
- Mathematics Colloquium*, Siena College, 17 Feb. 2011.
- Mathematics Colloquium*, Rose-Hulman Institute of Technology, 14 Feb. 2011.
- Mathematics Colloquium*, Gettysburg College, 8 Feb. 2011.
- Mathematics Colloquium*, Saint Mary's College of Maryland, 31 Jan. 2011.
- Analysis Seminar*, University of Cincinnati, 15 Dec. 2010.
- AMS Special Session in Nonlinear Analysis and Geometry*, Syracuse University, 2 Oct. 2010.
- Mathematics Faculty Research Seminar*, Trinity University, 15 Apr. 2010.
- Mathematics Colloquium*, Saint Mary's University, San Antonio, 14 Apr. 2010.
- AMS Special Session in Geometric Function Theory and Analysis on Metric Spaces*, University of Kentucky, 27 Mar. 2010.
- Analysis Seminar*, Rice University, 17 Mar. 2010.
- Colloquium*, University of Dayton, 25 Feb. 2010.
- Analysis Seminar*, Brown University, 2 Nov. 2009.
- Denison FASt Seminar*, Denison University, 7 Oct. 2009.
- AMS Special Session in Geometric Function Theory and Analysis on Metric Spaces*, University of Illinois, 28 Mar. 2009.
- Syracuse University Analysis Seminar*, Syracuse, 5 Mar. 2009.
- AMS Special Session in Geometric Function Theory and Geometry*, Wesleyan University, 11-12 Oct. 2008.
- Recent Advances in Geometric Function Theory*, Syracuse, 19 May 2008.

INVITED  
PRESENTATIONS  
(CONTINUED)

*Quasiconformal Mappings and Analysis on Metric Spaces in memory of Juha Heinonen*, University of Michigan, 16 May 2008.

*Ahlfors-Bers Colloquium*, Rutgers University, 8 May 2008.

*Seminar on H. Whitney's Flat Chains and Cochains*, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, 9 Aug. 2007.

*Syracuse Graduate Student Conference*, Syracuse, 31 Mar. 2007.

*Analysis and Partial Differential Equations in honor of Professor Bogdan Bojarski*, Będlewo, Poland, 23 Jun. 2006.

*Geometric Function Theory Seminar*, University of Michigan, 4 Feb. 2004.

*Nebraska Conference for Undergraduate Women in Mathematics*, University of Nebraska, 12 Feb. 2000.

TEACHING  
EXPERIENCE

Kenyon College, Gambier, OH

Elements of Statistics

Calculus with Elementary Functions

Calculus II

Linear Algebra

Complex Analysis

Real Analysis I, II

University of Michigan, Ann Arbor, MI

Calculus I, II

OTHER  
PROFESSIONAL  
EXPERIENCE

National Security Agency, Fort Meade, MD

*Cryptographic Network Evaluator (Summer 2005)*

Performed security analyses on cryptographic components and random number generators of commercial web products.

*Applied Mathematician, Graduate Mathematics Program (Summer 2004)*

Researched methods for analyzing and classifying large, complex datasets.

United States Air Force, Randolph Air Force Base, TX

*Personnel Analyst (1999-2003)*

Conducted statistical analysis of various aspects of the personnel life-cycle, including promotions, accessions, and retention. Developed models predicting outcomes of personnel policies.

PROFESSIONAL DEVELOPMENT	<p><i>Project NExT Teaching Workshops (Summer 2009-Summer 2010)</i>  Professional development program for recent doctoral recipients in the first few years of teaching. The program focuses on improving the teaching and learning of mathematics, engaging in research and scholarship, and participating in professional activities.</p> <p><i>Teaching for Inclusion (Winter 2008)</i>  <i>Gender and Authority in the College Classroom (Winter 2008)</i>  Half-day seminars by the UM Center for Research on Learning and Teaching.</p> <p><i>UM Mathematics Teaching Orientation (Fall 2005)</i>  Week-long course including lesson-planning, effective use of technology in the classroom, and videotaped practice lectures.</p>
COMPUTER SKILLS	<p>Mathematics/Statistics Software: <i>Maple, Matlab, SAS, Minitab</i></p> <p>Languages: <i>C++, Java, Perl, HTML, LATEX</i></p> <p>Productivity Software: <i>Microsoft Excel, Word, PowerPoint</i></p> <p>Other: <i>Compuware SoftICE, DataRescue IDAPro</i></p>
SERVICE	<p>Reviewer, AMS Mathematical Reviews database (2006-present)</p> <p>Co-organizer, Project NExT undergraduate research panel (2010)</p> <p>Co-organizer, Kenyon College problem of the week (2009-2010)</p> <p>Panelist, Ahlfors-Bers Colloquium mentoring panel (2008)</p> <p>Organizer, UM Mathematics Grad Student Mentor Program (2008-2009)</p> <p>Organizer, UM Student Analysis Seminar (2006-2007)</p> <p>Math instructor, King-Chavez-Parks College Days for middle/high school students (2006)</p> <p>Mathematics placement advisor for incoming UM undergraduates (2006)</p>
PROFESSIONAL AFFILIATIONS	<p>American Mathematical Society</p> <p>Association for Women in Mathematics</p> <p>Mathematical Association of America</p>