

JESSICA J. POOLE MAGEE
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EDUCATION

Texas Southern University

Master of Science in Mathematics GPA: 3.86/4.0

Houston, TX

August 2012

Scholarships and Awards: L.L. Clarkson Research Scholar (2011); Texas Southern University's Graduate Assistantship Program (2011 – 2012), Outstanding Graduate Student (2012).

Courses: Fourier Series, Point Set Topology, Algebra for Teachers, Geometry for Teachers, Research Seminar, Theory of Complex Variables, Topics in Math I: Difference Equations, Abstract Algebra, Real Variables.

THESIS: On the Solutions of Maxilinear Difference Equations and Systems

Summer 2012

Texas Southern University

Houston, TX

Bachelors of Science in Mathematics, Minor: Physics

May 2008

Cum Laude

GPA: 3.12/4.0

Mathematics GPA: 3.84/4.0

Scholarships and Awards: H-Louis Stokes Alliance for Minority Participation scholar award funded by the National Science Foundation; Texas Southern University's Leadership Award (2002); First Place, 105th Annual Texas Academy of Science Paper Competition (2002); The Amir-Moez Mathematics Award, 105th Annual Texas Academy Mathematics Division (2002); Texas Southern University Diamond Club Scholarship (2002); The Amir-Moez Mathematics Award, 106th Annual Texas Academy of Science Mathematics Division (2003); 2nd Place Undergraduate Paper Competition, 2003 Southwest Regional Louis Stokes Alliance for Minority Participation Student Research Conference (2003); Outstanding Presentation at Texas Academy of Science Symposium – Texas Southern University (2003); Participation in Research Experience in Discrete Mathematics – Texas Southern University (2003)

Relevant Courses: Calculus (I, II, III); Differential Equations; Linear Algebra; Logic, Sets, and Functions; Mathematical Probability and Statistics (I, II); Foundations of Algebra; Introduction to Modern Algebra; Real Analysis (I, II); Introduction to Complex Analysis; Elementary Topology; Applied Probability and Stochastic Modeling.

EXPERIENCE

Internships

Alliances for Graduate Education and the Professoriate (AGEP)

Rice University – Houston, TX

Summer 2002

Research Experience in Discrete Mathematics

Texas Southern University – Houston, TX

Summer 2003

Iowa – Alliances for Graduate Education and the Professoriate (Iowa-AGEP)

Iowa State University – Ames, IA

Summer 2004

Alliances for Graduate Education and the Professoriate (AGEP)

University of Houston – Houston, TX

Summer 2006

Research/Teaching Assistant

2000 – 2012

Dr. Willie Taylor, Texas Southern University

- Assisted instructor with student lectures in Business Calculus, Pre-Calculus and Calculus I, and Linear Algebra
- Provided tutorial assistance to students in mathematics department
- Conducted (4) Student – Faculty research papers

Instructional

Worthing HS, Houston ISD

2008 – 2010

- Mathematics Teacher
- Algebra 1, Algebra 2, Pre-Calculus

Houston Community College, Department of Mathematics

2012 – 2013

- Instructor
- Fundamental Mathematics

Texas Southern University, Department of Mathematics

2012 – 2013

- Adjunct Professor, Instructor
- College Algebra, Plane Trigonometry

Workshops and Conferences

- Computational Science Workshop
Louisiana State University – Baton Rouge, LA
- 105th Annual Meeting – Texas Academy of Science
Texas A&M International University – Laredo, TX

January 2002

March 2002

- 8th Conference for African American Researchers in Mathematical Sciences
Princeton University – Princeton, NJ June 2002
- Annual H-Louis Stokes Alliance for Minority Participation (LSAMP) Conferences
Texas State University – San Marcos, TX 2000-2002
- The National Association of Mathematician Undergraduate MATHFest XII
Southern University in New Orleans, New Orleans, LA November 2002
- 106th Annual Meeting – Texas Academy of Science
Stephen F. Austin State University – Nacogdoches, TX March 2003
- Ronald E. McNair Undergraduate Research Conference
Buffalo, NY July 2003
- 2003 Southwest Regional Louis Stokes Alliance for Minority Participation Student Research Conference
South Padre Island, TX September 2003
- The National Association of Mathematician Undergraduate MATHFest XIII
Delaware State University – Dover, Delaware October 2003
- 2004 H-Louis Stokes Alliance for Minority Participation Student Research Conference
University of Houston – Houston, TX September 2004
- ESCU-NAM Summer Computational Institute 2006
Elizabeth City State University – Elizabeth City, NC May 2006
- 2012 Field of Dreams
Arizona State University – Phoenix, AZ November 2012

Presentations

11. *Poole, J.J., Taylor, W.E.. On the Solutions of Maxilinear Difference Equations and Systems, Thesis defense (Summer 2012)
10. Kivunge,B., *Poole, J.J., Smith,J.D.H., and Teplitskiy,M.. Partial Semigroups and Primality Indicators in the Fractal Generation of Binomial Coefficients to a Prime Square Modulus, 2004 H-LSAMP Conference (Fall 2004)
9. Dean, N, *Poole, J.J, and Wu, T.. A Curious Number Theory Problem Involving Conic Sections, MATHFest XIII (Fall 2003).
8. Dean, N, *Poole, J.J, and Wu, T.. A Curious Number Theory Problem Involving Conic Sections, 2003 Southwest Regional LSAMP Student Research Conference. South Padre Island, TX (Fall 2003).
7. *Poole, J.J. and Taylor, W.E.. A Curious Quadratic Involving Sums, Ronald E. McNair Undergraduate Research Conference. Buffalo, NY (Summer 2003).
6. *Poole, J.J and Taylor, W.E.. On the Solutions of a Curious Differential Equation, 106th Annual Meeting – Texas Academy of Science. Nacogdoches, TX (Spring 2003).
5. *Bryant, W.F., *Poole, J.J., and Taylor, W.E.. A Curious Calculus Problem and Some Properties of their Solutions. 106th Annual Meeting – Texas Academy of Science. Nacogdoches, TX (Spring 2003).
4. *Poole, J.J. and Taylor, W.E.. On the Solutions of a Curious Differential Equations, 3rd Annual LSAMP Conference. San Marcos, TX (Summer 2002).
3. *Poole, J.J and Tapia, R.A.. Numerical Experimentation with Various Algorithms for Symmetric Eigenvalue Problems. Houston, TX (Summer 2002)
2. *Poole, J.J. and Taylor, W.E.. A Curious Quadratic Involving Sums, 105th Annual Meeting – Texas Academy of Science. Laredo, TX (Spring 2002).
1. *Poole, J.J. and Taylor, W.E.. A Curious Quadratic Involving Sums, 2nd Annual LSAMP Conference. San Marcos, TX (Summer 2001).

PROFESSIONAL ORGANIZATIONS

- President and Founder, Texas Southern University's Society for Young Mathematicians
- Student Member, American Mathematical Society
- Student Member, Mathematical Association of America
- Student Member, National Society of Black Physicists
- Member, Houston Federation of Teachers