

# Jahmario Williams

Phone: 713-313-7985

email: williamsjl@tsu.edu

## Education

---

*Mississippi State University*, Mississippi State, MS 39762

PhD in Mathematical Sciences

- Concentration: Partial Differential Equations and P-Laplacian Equations
- Dissertation Advisor: Dr. Hai Dang

*Mississippi State University*, Mississippi State, MS 39762

Master of Science in Mathematics, 2008

- Graduated *Summa Cum Laude*
- Concentration: Applied Mathematics
- Thesis Advisor: Dr. Hai Dang

*University of Mississippi*, University, MS 38677

Bachelor Degree in Mathematics, 2006

## Research Publications

---

1. with Oscar H. Criner and Willie E. Taylor: On the Solutions of a System of Nonlinear Difference Equations. *Int. J. Difference Equ.* **10(2)**, (2015), 161-166.
2. with Dr. Hai Dang: Positive radial solutions for a class of Singular  $p$ -Laplacian systems in a ball. *Mediterr. J. Math.* **12(3)**, (2015), 791-801.
3. Positive radial solutions for  $p$ -Laplacian singular boundary value problems. Doctoral Dissertation, *Mississippi State University*. **46 pp.** (2013).
4. with Dr. Hai Dang: Positive radial solutions for a class of quasilinear boundary value problems in a ball. *Nonlinear Analysis*. **75(4)**, (2012), 1744-1750.

## Work Experience

---

- **Assistant Professor, Fall 2013-Present, Department of Mathematics, Texas Southern University**

## Conference Paper

---

1. "MultiObjective Modeling and Optimization in Design", Qiang Chen, Derek Dalle, Chad Griep, Jingwei Hu, and Zhenqiu Xie.

## Honors and Awards

---

- Faculty Appreciation award from the James Worth Bagley College of Engineering and Mississippi State University, May 2011.
- Outstanding Graduate Student award, Department of Mathematics and Statistics, Mississippi State University, May 2008.
- Master recipient of AGEM Scholar from Mississippi State University, May 2008.
- Recipient of Pi Mu Epsilon (National Math Honors Society) scholar from University of Mississippi, May 2006.

## Presentations

---

1. Presented a talk on, "Positive Radial Solutions for a class of Quasilinear Boundary Value Problems in a ball", at the Praire View A & M University April 24, 2015.
2. Presented a talk on, "Positive Radial Solutions for a class of Quasilinear Boundary Value Problems in a ball", at the University of Houston April 17, 2015.
3. Presented a talk on, "Positive Radial Solutions for a class of Quasilinear Boundary Value Problems in a ball", at the 35th Annual Texas Partial Differential Equations Conference held March 3-4, 2012.
4. Presented a talk on "The Anti-Maximum Principle for the Sturm-Liouville Boundary Value Problem", at the 2009 Differential Equation Weekend in Memphis, November 9, 2011. Invited to a workshop on "Computational Wave Propagation" at Michigan State University held June 7-25, 2010.
5. Presented a talk on, "Euler's Formula", at the University of Mississippi Pi Mu Epsilon (National Math Honors Society) held April 2006.

## Conferences and Workshops Attended

---

1. Attended a Mini-School and workshop on "The Analysis of PDEs of fluid Mechanics and Related Models" held October 10-13, 2015.
2. Attended the 9th Differential Equations and Computational Simulations held October 4-6, 2012.
3. Attended a workshop on "Future Directions in Applied Mathematics", at NC State University held March 10-11, 2011.
4. Attended a workshop on "Computational Wave Propagation" at Michigan State University held June 7-25, 2010.
5. Attended a workshop on "Career Options for Underrepresented Groups in Mathematical Sciences", at The University of Minnesota held March 25-27, 2010.
6. Attended a workshop on "Mathematical Modeling in Industry XI" at The University of Minnesota held August 8-17, 2007.

## Teaching Experience

---

1. Spring 2016: Math 241 - Calculus I, Math 251 - Differential Equations, Math 460 - Complex Analysis

2. Fall 2015: Math 243 - Calculus III, Math 134-Trigonometry, Math 136-PreCalculus
3. Summer I 2015: Math 135 - Business Math
4. Spring 2015: Math 242 - Calculus II, Math 134-Trigonometry two sections, Math 133-College Algebra
5. Fall 2014: Math 242 - Calculus II, Math 136-PreCalculus, Math 134-Trigonometry
6. Summer II 2014: Math 131 - Developmental Math
7. Summer I 2014: Math 135 - Business Calculus
8. Spring 2014: Math 241 - Calculus I, Math 134-Trigonometry
9. Fall 2013: Math 242 - Calculus II, Math 136-PreCalculus
10. Summer 2013: MA 0003 - Developmental Math, two sections
11. Fall 2012: MA 1613 - Business Calculus, two sections
12. Spring 2012: MA 1713 - Calculus I
13. Fall 2011: MA 1713 - Calculus I, two sections
14. Summer 2011: MA 0003 - Developmental Math, two sections
15. Spring 2011: MA 1713 - Calculus I, two sections
16. Fall 2010: MA 1323 MA 1613 - Business Calculus, two sections Spring
17. Spring 2010: MA 1323 MA 1613 - Business Calculus, two sections Fall
18. Fall 2009: MA 1713 - Business Calculus, two sections
19. Spring 2009: MA 1323 MA 1613 - Business Calculus, two sections Fall
20. Fall 2008: MA 1713 - Business Calculus, two sections
21. Spring 2008: MA 1323 MA 1613 - Business Calculus, two sections
22. Fall 2007: MA 1713 - Business Calculus, two sections

## **Computer Skills**

---

- Programming Languages: Mathematica, MATLAB, Visual Basics, and L<sup>A</sup>T<sub>E</sub>X.
- Computer Software: Microsoft Office.

## **Current Memberships**

---

- American Mathematical Society
- Institute for Mathematics and Its Application

## **Student**

---

- Chibueze Ezeudu, B.A. student, Texas Southern University (Summer 2014)