

Mariette Maroun

The University of Louisiana at Monroe
Mathematics and Physics
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Education

Ph D, Baylor University, 2006.
Major: Mathematics
Dissertation Title: Existence of Positive Solutions to Right Focal Singular Boundary Value Problem

MS, University of Dayton, 2003.
Major: Applied Mathematics
Dissertation Title: Periodic Solutions in Nonlinear Neutral Difference Equations with Functional Delay

BS, Notre Dame University, 1999.
Major: Mathematics

Professional Positions

Academic

Graduate Teaching Assistant/Instructor of Record, Baylor University. (August 2003 - August 2006).

Graduate Teaching Assistant/Instructor of Record, University of Dayton. (August 2001 - May 2003).

Instructor of Mathematics, College Saint Joseph. (June 2000 - June 2001).

Instructor of Mathematics, Aoukar International School. (June 1999 - June 2001).

Professional

Assistant Professor, University of Louisiana at Monroe. (August 2006 - Present).

Professional Memberships

National, AWM- Association of Women in Mathematics. (January 2009 - Present).

Regional, NELATM- Northeast Louisiana Association of Teachers of Mathematics. (March 2007 - Present).

National, KME- Kappa Mu Epsilon. (March 2006 - Present).

International, AMS- American Mathematical Society. (August 2001 - Present).

State, LATM- Louisiana Association of Teachers of Mathematics. (March 2007 - March 2008).

Development Activities Attended

Workshop, "Using flip videos to develop math content," TLRC, Monroe, LA. (March 5, 2009).

Workshop, "Your Own ULM Webpage Online In Minutes," TLRC, Monroe, LA. (February 13, 2009).

Attended Conference, "AMS/MAA Joint National Mathematics Meeting," AMS/MAA, Washington DC. (January 5, 2009 - January 8, 2009).

Seminar, "What and where will the jobs be? Trends in mathematics and in employment," AWM, Washington DC. (January 5, 2009).

Workshop, "Using Camtasia to edit videos," TLRC, Monroe, LA. (April 4, 2008).

Attended Conference, "AMS/MAA Joint National Mathematics Meeting," AMS/MAA, San Diego, CA. (January 6, 2008 - January 9, 2008).

Workshop, "Introduction to Moodle," TLRC, Monroe, LA. (November 12, 2007).

Attended Conference, "NELATM Mini-Conference," NELATM, Monroe, LA. (February 10, 2007).

Attended Conference, "AMS/MAA Joint National Mathematics Meeting," AMS/MAA, New Orleans, LA. (January 5, 2007 - January 8, 2007).

Workshop, "Grant writing in the mathematical sciences," MAA, San Diego, CA. (January 6, 2007).

Attended Conference, "26th Annual Southeastern-Atlantic Regional Conference on Differential Equations," University of North Carolina at Greensboro, Greensboro, NC. (October 27, 2006 - October 28, 2006).

Workshop, "Driver Safety Course," University of Louisiana at Monroe, Monroe, LA. (October 19, 2006).

Attended Conference, "NELATM, Mini-Conference," NELATM, Monroe, LA. (September 26, 2006).

Seminar, "Advising in the Arts and Sciences," University of Louisiana at Monroe, Monroe, LA. (August 16, 2006).

Attended Conference, "Texas Section MAA meeting," Midwestern State University, Wichita Falls, TX. (April 6, 2006 - April 8, 2006).

Attended Conference, "AMS/MAA Joint National Mathematics Meeting," AMS/MAA, San Antonio, TX. (January 12, 2006 - January 15, 2006).

Seminar, "Integrating mathematics with other disciplines," MAA. (January 13, 2006).

Workshop, "Getting students involved in undergraduate research," MAA, San Antonio, TX. (January 12, 2006).

Attended Conference, "25th Annual Southeastern-Atlantic Regional Conference on Differential Equations," University of Dayton, Dayton, OH. (October 7, 2005 - October 8, 2005).

Attended Conference, "24th Annual Southeastern-Atlantic Regional Conference on Differential Equations," University of Tennessee at Chattanooga, Chattanooga, TN. (October 22, 2004 - October 23, 2004).

Attended Conference, "23rd Annual Southeastern-Atlantic Regional Conference on Differential Equations," Kennesaw State University, Kennesaw, GA. (October 17, 2003 - October 18, 2003).

Attended Conference, "AMS Sectional Meeting," AMS, Indiana University, Bloomington, IN. (April 4, 2003 - April 6, 2003).

Attended Conference, "22nd Annual Southeastern-Atlantic Regional Conference on Differential Equations," University of Tennessee, Knoxville, TN. (October 11, 2002 - October 12, 2002).

Attended Conference, "Sports and Mathematics," Ohio University, Athens, OH. (March 2002).

Attended Conference, "21st Annual Southeastern-Atlantic Regional Conference on Differential Equations," Wake Forest University, Winston-Salem, NC. (November 2, 2001 - November 3, 2001).

TEACHING

Teaching Experience

The University of Louisiana at Monroe

MATH 110, Col Alg With Review, 6 courses.

MATH 112, Trigonometry, 4 courses.

MATH 132, Calculus, 1 course.

MATH 301, Diff Equations, 2 courses.

MATH 405, Partial Differen Equatin, 1 course.

RESEARCH

Published Intellectual Contributions

Refereed Journal Articles

Maroun, M. (2006). Positive Solutions to an Nth-Order Right Focal Boundary Value Problem. *Electronic Journal of Qualitative Theory of Differential Equations*(3), 1-12.

Maroun, M., Henderson, J. (2005). Positive Solutions to a Third-Order Right Focal Boundary Value Problem. *Communications on Applied Nonlinear Analysis*, 12(3), 71-82.

Maroun, M., Raffoul, Y. N. (2005). Periodic Solutions in Nonlinear Neutral Difference Equations with Functional Delay. *Journal of Korean Mathematical Society*(42), 255-268.

Raffoul, Y. N., Maroun, M., Dib, Y. Periodicity and Stability in Neutral Nonlinear Differential Equations with Functional Delay. *Electronic Journal of Differential Equations*, 2005(142), 1-11.

Presentations Given

Maroun, M. (Presenter & Author), Department of Mathematics and Physics Research Colloquium, Department of Mathematics and Physics, University of Louisiana at Monroe.

Maroun, M. (Presenter & Author), Department of Mathematics and Physics Research Colloquium, "Introduction to Time Scale and Existence of Positive Solutions to nth Order Boundary Value Problem," Department of Mathematics and Physics, University of Louisiana at Monroe.

- Maroun, M., Southeastern-Atlantic Regional Conference in Differential Equations, "Positive Solutions to an Nth-Order Right Focal Boundary Value Problem." (October 27, 2006).
- Maroun, M. (Presenter & Author), Texas Section MAA Meeting, "Positive Solutions to a Third-Order Right Focal Boundary Value Problem," MAA, Wichita Falls. (April 7, 2006).
- Maroun, M. (Presenter & Author), AMS/MAA National Joint Mathematics Meeting, "Positive Solutions to an Nth Order Right Focal Boundary Value Problem," AMS/MAA, San Antonio, Texas. (January 14, 2006).
- Maroun, M. (Presenter & Author), Southeastern-Atlantic Regional Conference in Differential Equations, "Positive Solutions to a Third-Order Right Focal Boundary Value Problem," National Science Foundation, Dayton, Ohio. (October 7, 2005).
- Maroun, M. (Presenter & Author), American Mathematical Society Sectional Meeting, "Periodic Solutions in Nonlinear Neutral Difference Equations with Functional Delay," AMS, Bloomington, Indiana. (April 6, 2003).

Contracts, Grants and Sponsored Research

Other

- Strunk, Christine C (Co-Principal), Maroun, Mariette (Co-Principal), "Sonia Kovalesky Day" (Funded), Sponsored by NSA and Elizabeth City State University, \$1475.
- Maroun, Mariette (Co-Principal), Dib, Youssef (Co-Principal), "Emerging Scholars" (Funded), Sponsored by Emerging Scholars Program, The University of Louisiana at Monroe. (January 26, 2009 - Present).
- Maroun, Mariette (Co-Principal), Dib, Youssef (Co-Principal), "Emerging Scholars" (Funded), Sponsored by Emerging Scholars Program, The University of Louisiana at Monroe. (January 22, 2009 - Present).
- Maroun, Mariette (Supporting), Dib, Youssef (Principal), Hare, David (Supporting), Bhattacharjee, Joydeep (Supporting), "Biological and Mathematical Control on Water Hyacinth in Northeast Louisiana" (Not Funded), Sponsored by Louisiana Board of Regents, External to The University of Louisiana at Monroe, \$10000.00. (October 2008 - January 2009).
- Maroun, Mariette, "26th SEARCDE" (Funded), Sponsored by National Science Foundation, External to The University of Louisiana at Monroe, \$600.00. (October 2006).
- Maroun, Mariette, "25th SEARCDE" (Funded), Sponsored by National Science Foundation, External to The University of Louisiana at Monroe, \$400.00. (October 2005).
- Maroun, Mariette, "24th SEARCDE" (Funded), Sponsored by National Science Foundation, External to The University of Louisiana at Monroe, \$450.00. (October 2004).
- Maroun, Mariette, "23rd SEARCDE" (Funded), Sponsored by National Science Foundation, External to The University of Louisiana at Monroe, \$400.00. (October 2003).
- Maroun, Mariette, "22nd SEARCDE", Sponsored by National Science Foundation, External to The University of Louisiana at Monroe, \$300.00. (October 2002).
- Maroun, Mariette, "21st SEARCDE" (Funded), Sponsored by National Science Foundation, External to The University of Louisiana at Monroe, \$250.00. (November 2001).

Creative Works

Contribution to Department's College Algebra Text and shared Editorial duties, *College Algebra*, Monroe, LA, (vol. 1): Pearson..

Research in Progress

"Positive Solutions to a Third-Order Right Focal Boundary Value Problem on Time Scale"

"Controlling the Water Hyacinth through System Theory Approach." (On-Going)

SERVICE

Editorial and Review Activities

Invited Manuscript Reviewer, Review Journal Article, *Communications in Mathematical Analysis*. (February 2008 - April 2008).

Invited Manuscript Reviewer, Review Journal Article, *Computers and Mathematics with Applications*. (September 2007 - January 2008).

Invited Manuscript Reviewer, Review Journal Article, *Communication on Applied Nonlinear Analysis*. (February 2007 - April 2007).

Internal Service

College

Committee Member, Arts and Sciences Retention Committee, Member. (September 2008 - Present).

Department

Committee Member, Math 131 Redesign Committee, Member. (August 2008 - Present).

Committee Member, Course Curriculum Committee, Member. (November 2007 - Present).

College Algebra Textbook Committee, Member. (September 2007 - Present).

Committee Member, Assessment Committee, Other Officer. (January 2007 - Present).

Committee Member, Math 113 Redesign Committee, Member. (January 2007 - Present).

Committee Chair, Math 112 Redesign Committee, Member. (May 2006 - Present).

Committee Member, Faculty Evaluation Instruments Committee, Member. (October 2006 - November 2007).

Other

Attendee, Meeting, College of Arts and Science Tailgating. (September 2008 - October 2008).

University

Attendee, Graduation, Graduation Ceremony. (December 2007 - Present).

Attendee, Meeting, Browse on the Bayou. (March 17, 2007 - Present).

Attendee, Meeting, Browse on the Bayou. (November 11, 2006 - Present).

Committee Member, Research Committee at University of Dayton, Member. (August 2002 - August 2003).

External Service

Professional

Attendee, Meeting, NELATM- Northeast Louisiana Association of Teachers of Mathematics Mini Conference. (March 2008 - Present).

Attendee, Meeting, NELATM- Northeast Louisiana Association of Teachers of Mathematics Mini Conference. (February 2007 - Present).

Conference Program Organizer, Sonia Kovalevsky Day. (March 2009).