

LEE R. REDFEARN

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RESEARCH RELEVANCE

Uncertainty Quantification, more specifically, using the discrepancy function to capture model form error in the instance of discontinuous solutions

EDUCATION

PhD in Mathematical Sciences, **Clemson University**, Clemson SC, 29634
Expected Graduation: Spring 2020
Advisor: Dr. Taufiqar Khan

M.S. in Applied Mathematics, **NC A&T State University**, Greensboro, NC, 27411
Graduated: Fall 2014
Thesis: Improved Weight Functions of High-order WENO Schemes
Advisor: Dr. Nail Yamaleev

B.S. in Mathematics, **NC A&T State University**, Greensboro, NC, 27411
Graduated: May 2012
Senior Project: Using Differential Manifolds to Explain the Laws of Thermodynamics

PROFESSIONAL EXPERIENCE

Adjunct Faculty Instructor, Department of Mathematics, **NC A&T State University**
Greensboro, NC 27401
Spring 2016, Spring 2014

Mathematics Instructor, Department of Mathematics, **Guilford Technical Community College**,
Jamestown, NC, 27282

Research Assistant, Department of Mathematics and Engineering, Center of Aviation
Safety(CAS) of NASA, **NC A&T State University**, Greensboro, NC 27401

ACCOLADES

- SIAM Member
- Participant in SAMSI Optimization Summer School/Workshop
- Vice President of Black Graduate Student Association (BGSA)
- German Club
- Chinese Language Club

RESEARCH INTERESTS

- Uncertainty Quantification

- Applied Analysis
- Nonlinear Optimization and Inverse Problems
- Computational Mathematics
- Honeybees (CCD)

WORKSHOPS/ CONFERENCES

- SAMSI Workshop and Summer School for Optimization, Aug 8th-12th 2016
- SIAM Conference on Computational Science and Engineering, Feb 27th-March 3rd 2017

PUBLICATIONS

Redfearn, Lee R., M.S., "Improved Weight Functions of High-order WENO Schemes" North Carolina Agricultural and Technical State University, 2014, 38 pages; 1573228