

CURRICULUM VITAE

RYAN REED GROVE

CONTACT INFORMATION

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CITIZENSHIP United States of America

EDUCATION

DEGREE Ph.D. in Mathematical Sciences
Dissertation: *N/A*
Overall QPA: 3.69
May 2017 (Expected)
Clemson University
Clemson, SC

DEGREE M.S. in Applied Mathematics
Thesis: *Immersed Boundary modeling of journal bearings in a viscoelastic fluid.*
Overall QPA: 3.83
May 2013
Indiana University of Pennsylvania
Indiana, PA

DEGREE B.S. in Applied Mathematics, B.S. in Physics
Minor in Computer Science
May 2012
Overall QPA: 3.95
Indiana University of Pennsylvania
Indiana, PA

RESEARCH INTERESTS

Geometric Multi-grid, Finite Element Method, Navier-Stokes equations, Parallelization, Mantle Convection Simulation, deal.II, Parallel Linear Algebra

LEARNED PROGRAMMING LANGUAGES/SOFTWARE PACKAGES

MATHEMATICS deal.ii, Matlab, Mathematica, Maple, Sage, R, Girosi, Lingo, Lindo, LaTeX

GENERAL C, C++, Python, HTML, Fortran, Java, SQL, Visual Basic

PHYSICS	LabVIEW
GEOSCIENCE	ASPECT
VERSION	GIT, Subversion
CONTROL	

CONTRIBUTED TALKS

(* = received travel support)

TITLE	Graduate Student Seminar
LOCATION	Clemson University, Clemson, SC
DATE	September 23, 2013
TALK TITLE	How to Get a Summer Internship

TITLE	Graduate Student Seminar
LOCATION	Clemson University, Clemson, SC
DATE	August 26, 2013
TALK TITLE	An Introduction to Graduate School

TITLE	*The 9th Annual UNCG Regional Mathematics and Statistics Conference
LOCATION	The University of North Carolina at Greensboro, Greensboro, NC
DATE	November 2, 2013
TALK TITLE	Immersed Boundary Modeling of Journal Bearings in a Viscoelastic Fluid

TITLE	Graduate Student Seminar
LOCATION	Clemson University, Clemson, SC
DATE	October 30, 2013
TALK TITLE	Immersed Boundary Modeling of Journal Bearings in a Viscoelastic Fluid

TITLE	*Pennsylvania State System of Higher Education Mathematics Association
LOCATION	Clarion University, Clarion, PA
DATE	April 17-18, 2013
TALK TITLE	Immersed Boundary Modeling of Journal Bearings in a Viscoelastic Fluid

TITLE	*Allegheny Mountain Section of the Mathematical Association of America Spring 2013 meeting
LOCATION	Indiana University of Pennsylvania, Indiana, PA
DATE	April 5-6, 2013
TALK TITLE	Immersed Boundary Modeling of Journal Bearings in a Viscoelastic Fluid

TITLE	Computational Mathematics Seminar
LOCATION	Clemson University, Clemson, SC
DATE	October 30, 2014
TALK TITLE	Comparison of Nonlinear and Linear Stabilization Schemes for Advection-Diffusion Equations

TITLE	*The 10th Annual UNCG Regional Mathematics and Statistics Conference
LOCATION	The University of North Carolina at Greensboro, Greensboro, NC
DATE	November 1, 2014
TALK TITLE	Comparison of Nonlinear and Linear Stabilization Schemes for Advection-Diffusion Equations

TITLE	Graduate Student Seminar
LOCATION	Clemson University, Clemson, SC
DATE	November 5, 2014
TALK TITLE	Comparison of Nonlinear and Linear Stabilization Schemes for Advection-Diffusion Equations

TITLE	Fall Southeastern Sectional Meeting of the American Mathematical Society
LOCATION	The University of North Carolina at Greensboro, Greensboro, NC
DATE	November 8-9, 2014
TALK TITLE	Comparison of Nonlinear and Linear Stabilization Schemes for Advection-Diffusion Equations

POSTER PRESENTATION

(* = received travel support)

TITLE	*2015 SIAM Conference on Computational Science and Engineering
LOCATION	The Calvin L. Rampton Salt Palace Convention Center Salt Lake City, UT
DATE	March 14-18, 2015
POSTER TITLE	Comparison of Nonlinear and Linear Stabilization Schemes for Advection-Diffusion Equations

PANELS

(* = received travel support)

TITLE	AWM's Summer Opportunities Panel
LOCATION	E-4 Martin Hall Clemson, SC
DATE	October 20, 2015
TITLE	*Alumni Panel
LOCATION	STRGT 226/229 Indiana, PA
DATE	October 12, 2015

CONFERENCES ATTENDED WITH NO PRESENTATION

(* = received travel support)

TITLE	*2014 SIAM Student Conference
LOCATION	West Virginia University Blacksburg, WV
DATE	March, 2014

KEY COURSES

Introduction to Scientific Computing
Data Structures
Stochastic Processes
Stochastic Models
Mathematical Programming
Finite Element Method
Finite Element Method in Scientific Computing
Network Flow Programming
Linear Analysis
Matrix Analysis
Probability
Analysis for Applied Mathematics
Complex Analysis
Ordinary and Partial Differential Equations
Applied Regression Analysis and Design of Experiments
Modeling and Simulation
Advanced Simulation
Applied Statistical Methods
Deterministic Models in Operations Research
Stochastic Models in Operations Research
Linear Algebra
Mathematical Statistics
Advanced Mathematics for Applications
Theoretical Physics
Electricity and Magnetism
Nuclear Physics
Mechanics
Thermal and Statistical Physics
Optics
Electronics
Quantum Mechanics
Modern Physics

SERVICE

DESCRIPTION	SIAM Webmaster
DATE	Fall 2014 - Present

DESCRIPTION	GSG Senator
DATE	Fall 2015 - Present

DESCRIPTION	GSG Financial Committee
DATE	Fall 2015 - Present

WORKSHOPS GIVEN

PROGRAM	Personal Webpage Workshop
DATE	April 15, 2015
INSTITUTION	Clemson University
LOCATION	Clemson, SC
COMMENT	Conducted a workshop to help graduate students start up their own personal webpage

WORKSHOPS ATTENDED

PROGRAM	ASPECT Hackathon
DATE	May 20-30, 2015
INSTITUTION	UC Davis
LOCATION	?, CA

PROGRAM	ASPECT Hackathon
DATE	May 14-23, 2014
INSTITUTION	Texas A&M University
LOCATION	College Station, TX

INTERNSHIPS

JOB TITLE	Member of the Technical Staff
LOCATION	The Aerospace Corporation, Chantilly, VA
DATE	June 1, 2015 to August 14, 2015
DESCRIPTION	Developer and analyst of multiple software packages including: GRIPS, ViCE, and UNCOLA.

WORK EXPERIENCE

JOB TITLE	Graduate Teacher of Record
LOCATION	Clemson University, Clemson, SC
DATE	August 26, 2015 to present
DESCRIPTION	Teach MATH 1060 (Calculus of One Variable I).
JOB TITLE	Member of the Technical Staff
LOCATION	The Aerospace Corporation, Chantilly, VA
DATE	June 1, 2015 to present
DESCRIPTION	Create a test suite for the Genetic Resources for Innovation and Problem Solving (GRIPS) program.
JOB TITLE	Research Assistant
LOCATION	Clemson University, Clemson, SC
DATE	August 30, 2013 to May 1, 2015
DESCRIPTION	Simulate problems in thermal convection using ASPECT
JOB TITLE	Teaching Assistant
LOCATION	Clemson University, Clemson, SC
DATE	August 21, 2013 to December 13, 2013
DESCRIPTION	Calculus II teaching assistant
JOB TITLE	Sub aide
LOCATION	Cambria Residential Services, Richland, PA
DATE	June 4, 2012 to May 31, 2013
DESCRIPTION	Cook, clean, and transport individuals with mental health disabilities
JOB TITLE	Web Analyst, Research Assistant
LOCATION	Indiana University of Pennsylvania, Indiana, PA
DATE	September 7, 2012 to December 14, 2012
DESCRIPTION	Prepare and interpret multiple web traffic reports for the IUP Communications Department
JOB TITLE	Teaching Assistant
LOCATION	Indiana University of Pennsylvania, Indiana, PA
DATE	February 4, 2013 to May 13, 2013
DESCRIPTION	Tutor at the IUP branch campuses located in Punxsutawney and Northpointe, Pennsylvania

VOLUNTEER WORK

JOB TITLE	Volunteer Assistant
LOCATION	Cambria Residential Services, Richland, PA
DATE	08/2006 – 06/2012
DESCRIPTION	Take individuals with mental health disabilities into the community on outings
JOB TITLE	Volunteer Firefighter
LOCATION	Portage Area Fire Department, Portage, PA
DATE	July 10, 2012 to May 31, 2013
DESCRIPTION	Respond to emergency calls such as QRS, fire, and hazardous materials calls
JOB TITLE	Volunteer Tutor
LOCATION	Indiana University of Pennsylvania, Indiana, PA
DATE	08/2009 - present
DESCRIPTION	Tutor for calculus, differential equations, physics, and statistics

HONORS AND AWARDS

HONORS SOCIETY	Sigma Alpha Lambda Honor Fraternity Indiana University of Pennsylvania Fall 2009 – Spring 2012
HONORS SOCIETY	Phi Kappa Phi Honor Fraternity Indiana University of Pennsylvania Fall 2010 – Spring 2011
AWARD	Deans List Indiana University of Pennsylvania Fall 2008 – Spring 2012
SCHOLARSHIP	S-COAM Indiana University of Pennsylvania Academic years 2009 – 2013

GROUPS

TITLE	SIAM (Society for Industrial and Applied Mathematics)
TIME OF MEMBERSHIP	08/2013 - present
TITLE	AWM (Association for Women in Mathematics)
TIME OF MEMBERSHIP	10/2015 - present