

CURRICULUM VITAE

RYAN REED GROVE

CONTACT INFORMATION

ADDRESS Department of Mathematical Sciences
 M-306 Martin Hall
 Clemson University
 Clemson, SC 29634

EMAIL rrgrove6@gmail.com

WEB PAGE <http://people.clemson.edu/~rgrove/>

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

Finite Elements, 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++, Java, SQL, Python, HTML, Visual Basic

PHYSICS	LabVIEW
GEOSCIENCE	ASPECT
VERSION	GIT, Subversion
CONTROL	

CONTRIBUTED TALKS

(* = received travel support)

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

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

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

WORK EXPERIENCE

JOB TITLE	Intern - Software Engineer
LOCATION	The Aerospace Corporation, Chantilly, VA
DATE	June 1, 2015 to August 14, 2015
DESCRIPTION	TBD

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