

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: 3.85
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 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
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HONORS SOCIETY	Phi Kappa Phi Honor Fraternity Indiana University of Pennsylvania Fall 2010 – Spring 2011
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AWARD	Deans List Indiana University of Pennsylvania Fall 2008 – Spring 2012
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SCHOLARSHIP	S-COAM Indiana University of Pennsylvania Academic years 2009 – 2013
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