

CLEMSON UNIVERSITY

Doctoral Hooding Ceremony

MAY 5, 2016



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DOCTORAL HOODING CEREMONY

THURSDAY, MAY 5, 2016

3:00 PM

BROOKS CENTER FOR THE PERFORMING ARTS

ORDER OF CEREMONIES

PROCESSIONAL

(Please stand for the processional and the National Anthem)

NATIONAL ANTHEM

OPENING OF CEREMONY

University Marshal Thomas J Overcamp

REFLECTION

Black Graduate Student Association President
Shakira R Hobbs

WELCOME AND INTRODUCTIONS

Associate Provost and Dean of the Graduate School
Jason W Osborne

and

Executive Vice President for Academic Affairs and Provost
Robert H Jones

PRESENTATION OF POSTHUMOUS DEGREE

RECOGNITION OF OUTSTANDING GRADUATE RESEARCHERS AND GRADUATE TEACHING ASSISTANTS

Fellowship and Awards Committee Chair
Joseph D Culin

CONFERRING OF DEGREES, DELIVERY OF DIPLOMAS, AND HOODING

President James P Clements

ALMA MATER

RECESSIONAL

RECEPTION (BROOKS CENTER LOBBY)

Today's ceremony is being streamed live with captioning at clemson.edu/graduate/hooding

PHD, HUMAN CENTERED COMPUTING

Awarded Posthumously to

ANDREA BETH CAMPBELL

1957–2016

Today's ceremony includes the awarding of a posthumous degree to Andrea Beth Campbell, who was nearing completion of her Ph.D. in Human-Centered Computing when she passed away in March. In recognition of her accomplishments, dedication, perseverance, and contributions, her advisory committee, department chair, college dean, and the dean of the Graduate School unanimously supported the awarding of her degree today. Clemson University is proud to present this Ph.D. degree to Dr. Andrea Campbell. Accepting the degree on her behalf is her life partner, Mr. Terry Lewis.

OUTSTANDING GRADUATE RESEARCHER AWARD

Kristen S Jennings
Industrial/Organizational Psychology

Xinyu Lu
Mechanical Engineering

OUTSTANDING GRADUATE TEACHING ASSISTANT AWARD

Brandon W Lee
Management

Maria L Rodgers
Biological Sciences

CEREMONIAL MUSIC

Haleigh Marcolini, Soloist
Clemson University Brass Quintet

Prelude

Various Marches and Processionals

Processional

Pomp and Circumstance – Sir Edward Elgar

National Anthem

Words by Francis Scott Key
Music attributed to John Stafford Smith

Closing

Clemson University Alma Mater

Words by A C Corcoran, Class of '19

Music by Hugh H McGarity and R Hawkins

Arranged by J Butler

Recessional

Rondeau from "Sinfonies de Fanfares" –
Jean-Joseph Mouret

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D Leslie Tindal Pinewood, SC
Allen P Wood Florence, SC

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Angela E Leidinger

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Assistant to the President

THE GRADUATE SCHOOL

Jason W Osborne
Associate Provost and Dean

Frankie O Felder
Senior Associate Dean

William G Ferrell
Associate Dean

COLLEGIATE DEANS

George R Askew, Jr
Dean of College of Agriculture, Forestry and Life Sciences

Richard E Goodstein
Dean of College of Architecture, Arts and Humanities

Robert E McCormick
Interim Dean of College of Business and Behavioral Science

Anand K Gramopadhye
Dean of College of Engineering and Science

Brett A Wright
Interim Dean of College of Health, Education and
Human Development

George J Petersen
Founding Dean of Eugene T Moore School of Education

Maggie Farrell
Dean of Libraries

GRADUATE STUDENT GOVERNMENT

Tyrese J Bryant
President

R Shawn Nanney
Vice President

David C Bivens
Vice President of the Greenville Council

SPECIAL THANKS TO GRADUATE PROGRAM DIRECTORS AND STAFF

Although there are too many to list, the graduate program coordinators, the administrative contacts, and the student services coordinators for each graduate degree program are essential to the success of graduate education at Clemson University. We hope you take great pride in seeing today's graduates walk across the stage, because this would not have been possible without you. Thank you.

ASSOCIATE DEANS AND DEPARTMENT CHAIRS

College of Agriculture, Forestry and Life Sciences

Joseph D Culin
Associate Dean for Research and Graduate Studies
Ted Whitwell
Associate Dean for Undergraduate Studies

Patricia A Zungoli Agricultural and Environmental
Sciences
James R Strickland..... Animal and Veterinary Sciences
Robert S Cohen Biological Sciences
E Jeffery Rhodehamel..... Food, Nutrition, and Packaging
Sciences
William R Marcotte, Jr Genetics and Biochemistry
Greg K Yarrow..... Forestry and Environmental Conservation

College of Architecture, Arts and Humanities

Constancio K Nakuma
Senior Associate Dean for Academic Affairs
James H Spencer
Acting Associate Dean for Research and Graduate Studies

Katherine L Schwennsen..... School of Architecture
Greg W Shelnuttt..... Art
Bryan E Denham, interim Communication Studies
Roger W Liska Construction Science and Management
Lee J Morrissey..... English
James M Burns..... History
Mary G Padua Landscape Architecture
Salvador A Oropesa Languages
David J Hartmann Performing Arts
Charles Starkey, interim Philosophy and Religion
James H Spencer..... Planning, Development and Preservation

College of Business and Behavioral Science

Gregory M Pickett
Senior Associate Dean
Douglas “Kinly” Sturkie
Associate Dean for Academic Affairs

Jeffrey J McMillian, interim School of Accountancy
Raymond D Sauer..... Economics
Angela G Morgan, interim Finance
Charles Tonkin Graphic Communications
“Sri” V Sridharan..... Management
Gregory M Pickett, interim..... Marketing
Gregory M Pickett..... MBA and Greenville ONE
Jeffrey S Peake Political Science
Patrick H Raymark..... Psychology
Douglas “Kinly” Sturkie, interim..... Sociology and Anthropology
Christopher R Mann Aerospace Studies
James Mullinax Military Leadership

College of Engineering and Science

Douglas E Hirt
Associate Dean for Research and Graduate Studies
Karen High
Associate Dean of Undergraduate Studies

Eileen T Kraemer..... School of Computing
Zoran S Filipi Automotive Engineering
Martine LaBerge Bioengineering
Douglas E Hirt..... Chemical and Biomolecular
Engineering
R Karl Dieter..... Chemistry
James R Martin..... Civil Engineering
Daniel L Noneaker Electrical and Computer Engineering
Cindy M Lee Engineering and Science Education
David L Freedman Environmental Engineering and
Earth Sciences
R Joe Watkins General Engineering
J Cole Smith..... Industrial Engineering
Rajendra “Raj” Bordia..... Materials Science and Engineering
Christopher L Cox, interim..... Mathematical Sciences
Melur “Ram” Ramasubramanian Mechanical Engineering
Mark D Leising Physics and Astronomy

College of Health, Education and Human Development

Eric R Muth
Associate Dean for Research and Graduate Studies

Margaret A Wetsel, interim School of Nursing
Francis A McGuire, interim Parks, Recreation and Tourism
Management
Ronald W Gimbel Public Health Sciences
James R McDonell, interim Youth, Family and Community
Studies

Eugene T Moore School of Education

Kathy N Headley
Senior Associate Dean of the Division of
Collaborative Academic Services
David E Barrett
Associate Dean of Academic Affairs and Research

Deborah M Switzer Education and Human Development
Robert C Knoeppel..... Educational and Organizational
Leadership Development
Suzanne N Rosenblith..... Teaching and Learning

The Graduate School

Bruce Ransom..... Policy Studies

A BRIEF HISTORY OF GRADUATE EDUCATION AND THE GRADUATE SCHOOL AT CLEMSON UNIVERSITY

[Clemson's faculty] would engage in original and important research, by which knowledge would be increased, whilst the immediate objects... would be the diffusion of facts on all scientific subjects. It would be vain to attempt to fix a limit to the benefits that would thus be conferred upon mankind and their effects upon society... — THOMAS GREEN CLEMSON¹

In conceptualizing a “high seminary of learning” for South Carolina, Thomas Green Clemson knowingly set the stage for graduate education to emerge as an engine of economic development in the state. Graduate education quickly became synonymous with the application of theory to improving the practices of education and agriculture. The analysis of fertilizer, a contracted activity of the chemistry department that began in the late 1930s, would help restore depleted South Carolina soils, increase agricultural production, and spur a rapid development in opportunities for students at Clemson College to study beyond the baccalaureate degree.

Graduate coursework initially responded to the needs of veterans, and to the interests of teachers wanting to improve their classroom skills, but also, from its inception, attracted international students' attention. On June 3, 1924, Patrick Hobson of Sandy Springs, South Carolina, earned the first master's degree awarded at Clemson, and used his degree in vocational education to serve as high school principal and later as superintendent of schools in York County, South Carolina and Mitchell County, North Carolina. The third graduate degree, a master's in textile industrial education awarded to Ko-Chia Li from Mukden, China, on June 1, 1926, initiated an enrollment trend that has catapulted China to its present status as the number-one sending country for international graduate students at Clemson. Mr. Li returned to China and taught as a professor of textile engineering at Peking University, and served as head of the construction department in LiaoBei Province.

From 1938 until 1945, all aspects of graduate education (courses, programs, policies, procedures, admission, and graduation) developed under the auspices of the Committee on Graduate Instruction, chaired by F. H. H. Calhoun, Dean of the School of Chemistry and Geology. Twice during these years the University's attempts to formalize graduate education were thwarted because of the challenges to the Committee to maintain the necessary standards of quality. Clemson faculty recognized early that to establish a graduate program that enabled Clemson alumni to enroll would require strengthening the undergraduate curriculum and courses to prevent knowledge gaps “between the two.”²

On March 14, 1945, President Poole received the Committee's resolution requesting the appointment of a dean of the Graduate School. It had been ascertained by that time that 19 courses could be offered immediately by the schools of agriculture, chemistry, engineering, textiles, and arts and sciences. On July 27, 1946, the Board of Trustees approved the Committee's proposed graduate program of study, and that fall, formally admitted the first class of students into “the Graduate School.” However, it would not be until June 15, 1951 that Herbert J. Webb, Chair of the Department of Chemistry and Toxicology, was appointed as the first Dean of the Graduate School.

Masterfully stewarded by President Poole himself, and modeled initially after several prestigious southern institutions, Clemson's graduate programs grew cautiously but steadily, introducing the first doctoral degree, in plant pathology, in 1955. Today the Graduate School proudly enrolls 4,682 graduate students and, including today's graduation, has awarded 36,356 master's degrees, 498 education specialist degrees, and 4,534 doctoral degrees.

1. Holmes, A, and GR Sherrill. *Thomas Green Clemson: His Life and Work*. 1937, p. 129.

2. Clemson University Library System archives. *Minutes of the Committee on Graduate Instruction, 1945-1953*, p. 7.

DOCTORAL HOODING

The doctoral hood is a symbolic honor of distinction bestowed upon scholars who have attained the highest level of formal education available in the world, representing a typical range of five to seven years of study beyond the bachelor's degree. Clemson's 46" long doctoral hood is draped over the shoulders by the faculty member who, as chair of the advisory committee, has formally mentored and guided the student's successful research and education journey.

CANDIDATES FOR THE DOCTOR'S DEGREE

Jason W Osborne, Dean, Graduate School

COLLEGE OF AGRICULTURE, FORESTRY AND LIFE SCIENCES

DOCTOR OF PHILOSOPHY

Biochemistry and Molecular Biology

Cheryl Page Jones Westminster, SC
B.S., Clemson University
Dissertation: Investigating the Role of ADP-Forming Acetyl-CoA Synthetase from the
Protozoan Parasite *Entamoeba histolytica*
Advisor: Dr. C Ingram-Smith
Cheryl was awarded three fellowships, including the NSF GRF, and completed a certificate
in engineering and science education. She has accepted a postdoctoral position at the
University of North Carolina.

Biological Sciences

Maria L Rodgers..... Blairsville, PA
B.S., University of Miami
Dissertation: Humoral Immune Responses in Loggerhead (*Caretta caretta*) and Kemp's Ridley
(*Lepidochelys kempii*) Sea Turtles
Advisor: Dr. C Rice
Maria has received a CAFLS Outstanding Graduate Student Teaching Assistant award, a
student-voted Teaching Assistant award, and served as the Graduate Student Government
Co-Secretary of Research and Procurement.

Xiaoxia Wang..... Beijing, China
B.S., China Agricultural University
Dissertation: Studies of Molecular Mechanisms of Royal Jelly Mediated Healthspan Promotion
in *Caenorhabditis elegans*
Advisor: Dr. Y Dong
Xiaoxia has four peer-reviewed publications in the field of aging research and plans to work as a
postdoc at Duke University Medical School.

Danielle Christina Zoellner St Louis, MO
B.S., Colorado State University; M.S., Coastal Carolina University
Dissertation: Consequences of Fragmentation for Woody Plant Communities: A Study of
Reservoir Islands
Advisor: Dr. S DeWalt

Environmental Toxicology

Namrata Sengupta Calcutta, India
B.S., University of Calcutta; M.S., Bangalore University
Dissertation: Environmental Toxicants and Unsaturated Fatty Acids Alter Toxicant
Sensitivity and Allocation of Polar Lipids in *Daphnia magna*
Advisor: Dr. W Baldwin
Namrata has two peer-reviewed first-author publications. She won 1st place in Clemson's
3-Minute Thesis competition (2014) and the Hap Wheeler Distinguished Graduate Student
Award (2015).

Food Technology

Kimberly Anne BakerAnderson, SC
B.S., M.S., Indiana University of Pennsylvania
Dissertation: Microbiological and Quality Characteristics of Alfalfa (*Medicago sativa*) and Mung Bean (*Vigna radiata*) Sprouts Grown Using Different Water Sources and Treated Post-Harvest
Advisor: Dr. J Northcutt
Kimberly will continue working with the Clemson University Cooperative Extension Service Food Safety and Nutrition program team.

Michele Christine PernaSimpsonville, SC
B.S., Clemson University
Dissertation: Formulation and Characterization of an Antimicrobial Coating Containing Nisin for Large Scale Food Package Converting Processes
Advisors: Dr. K Cooksey and Dr. D Darby

Daniel Anthony Traylor.....Whiteville, NC
B.S., Appalachian State University; M.S., Armstrong State University
Dissertation: (1) A Case for Leucine as a Pivotal Ingredient to Stimulate Muscle Protein Synthesis and Attenuate Sarcopenia; (2) Relative Contribution of Leg Press Estimated Strength and a 20-Yard Maximal Shuttle Run Test to Peak Power in Young Adults with Intellectual Disabilities
Advisors: Dr. J Rhodhamel and Dr. J Ryan
Dan has 22 peer-reviewed publications, one patent pending, and has accepted a post-doctoral fellowship position working in protein metabolism at McMaster University.

Forest Resources

Timothy Michael ShearmanStony Brook, NY
B.A., M.A., State University of New York
Dissertation: Impacts of Laurel Wilt Disease on Native *Persea* of the Southeastern United States
Advisor: Dr. G Wang

Microbiology

Chao GongBeijing, China
B.E., Beijing University of Chemical Technology; M.S., Clemson University
Dissertation: Bacteriophage Treatment of Hydrogen Sulfide-Producing Bacteria and Salmonella Biofilms in Rendering Processing Environment
Advisor: Dr. X Jiang
Chao has seven peer-reviewed publications and plans to work in the food industry.

Plant and Environmental Sciences

Alejandro Luis CanegalloLobos, Argentina
B.S., Universidad Catolica Argentina; M.S., Clemson University
Dissertation: Characterization and Control of *Ophiosphaerella* spp. Causing Spring Dead Spot of Bermudagrass in South Carolina, USA and Buenos Aires, Argentina
Advisor: Dr. S Martin

Wildlife and Fisheries Biology

Juliet S Lamb.....Brewster, MA
A.B., Harvard University; M.S., University of Massachusetts
Dissertation: Ecological Drivers of Brown Pelican Movement Patterns and Reproductive
Success in the Gulf of Mexico
Advisor: Dr. P Jodice

COLLEGE OF ARCHITECTURE, ARTS AND HUMANITIES

DOCTOR OF PHILOSOPHY

Rhetoric, Communication, and Information Design

Heather Dunn Christiansen..... Fort Mill, SC
B.S., M.A., Clemson University
Dissertation: Brand Community Interface Design: An Adapted Method for User
Experience Research
Advisor: Dr. T Howard

Matthew Joseph Osborn.....Rochester, NY
B.A., Saint John Fisher College; M.A., North Carolina State University
Dissertation: Surprise. Aesthetics and Sensibilities of Rhetoric
Advisor: Dr. V Vitanza

Lauren Woolbright Boone, NC
B.A., University of North Carolina; M.A., Clemson University
Dissertation: Identity Design: Challenging Archetypes with Feminist Approaches to
Video Game Design
Advisor: Dr. J Holmevik
Lauren received a Clemson Distinguished Graduate Student in Research Fellowship in 2014.
She has two peer-reviewed publications and has accepted a faculty position at Alma
College.

Hayley Renee Zertuche Bettendorf, IA
B.S., Saint Ambrose University; M.A., Western Illinois University
Dissertation: An Enfolded and Fertile Abyss: Rhetoric as the Creative Becoming of
Biological Life
Advisor: Dr. C Haynes
Hayley has accepted a faculty position at the University of California, Santa Barbara.

COLLEGE OF BUSINESS AND BEHAVIORAL SCIENCE

DOCTOR OF PHILOSOPHY

Applied Economics

Shan Jiang Tian Jin, China
M.S., M.A., Indiana University Bloomington
Dissertation: Effects of the Duration and Benefit Level of Unemployment Insurance
During the Great Recession: Evidence from Kentucky Administrative Data
Advisor: Dr. C Simon

Business Administration

James Edward BurlesonWaco, TX
B.B.A., Baylor University; M.B.A., Auburn University
Dissertation: Organization-Stakeholder Interaction Through Social Media: A Tri-Level Investigation, Categorization, and Research Agenda
Advisors: Dr. V Grover and Dr. J Thatcher
Jim received the 2013 College of Business and Behavioral Science Graduate Teaching Assistant Excellence Award. He has accepted a faculty position at California Polytechnic State University.

Economics

Jacob E Burgdorf.....Raleigh, NC
B.S., North Carolina State University
Dissertation: Essays on Mandated Vertical Restraints
Advisor: Dr. M Lewis
Jacob received the Hugh Macaulay Award for Outstanding Graduate Student of the Year in 2013 and will join the University of Louisville as a visiting assistant professor this fall.

Randall Scott CragunEugene, OR
B.S., University of Oregon; M.A., Clemson University
Dissertation: Essays in Directed Technical Change
Advisors: Dr. R Tamura and Dr. M Jerzmanowski

Alexander Joseph Fiore.....Harrisonburg, VA
B.S., James Madison University
Dissertation: Three Essays on the Introduction and Impact of Baggage Fees in the U.S. Airline Industry
Advisor: Dr. P Warren
Alex has accepted an economics consulting position at Analysis Group in Dallas, Texas.

Mallika Garg Delhi, India
B.A., Delhi University; M.A., Jamia Millia Islamia University
Dissertation: Unobserved Heterogeneity and Self-Selection: Essays in Labor Economics and International Trade
Advisor: Dr. C Simon
Mallika received a BB&T fellowship for 2015-16 and her research won 1st place in Clemson GRADS 2015. She will join University of Louisville as a faculty member after graduation.

Jing Li..... Central, SC
B.A., Communication University of China; B.A., Peking University; M.A., York University
Dissertation: Population Dynamics, Human Capital, and Economic Growth: The Consequence of One-Child Policy in China
Advisor: Dr. R Tamura

Industrial/Organizational Psychology

Brooke Baker Allison..... Greenville, SC
B.A., M.S., Clemson University
Dissertation: An Examination of Leader-Member Exchange and Team Effectiveness
Advisor: Dr. P Raymark
Brooke has two peer-reviewed publications, has authored two book chapters, and has served leader roles in two professional psychology societies. She plans to work in Talent Management.

Theresa Patricia Atkinson.....Baton Rouge, LA
B.S., Louisiana State University; M.S., Clemson University
Dissertation: Effects of Social Issues on Employment Outcomes for Individuals with Disabilities
Advisor: Dr. P Rosopa
Theresa has accepted a full-time job offer with Qualcomm in San Diego, and will begin her new job this month.

EUGENE T MOORE SCHOOL OF EDUCATION

DOCTOR OF PHILOSOPHY

Educational Leadership

Jacquelyn Lorraine BlakleyAnderson, SC
B.B.A., University of Georgia; M.B.A., Clemson University
Dissertation: A Qualitative Study of African American Women in Engineering Technology Programs in Community Colleges
Advisor: Dr. L Flowers
Jackie is currently employed as dean of business and public services at Tri-County Technical College and plans to advance her career in higher education.

Ellen Marie HampshireGreer, SC
B.A., University of Cincinnati; M.Ed., University of Cincinnati
Dissertation: Collective Sensemaking About the Implementation of Two Multi-Tiered Systems of Support: A Comparative Case Study of Two Selected Elementary School Teams
Advisor: Dr. J Lindle
Ellen has a position with Greenville County Schools as a Multi-Tiered System of Supports Coordinator.

Jennifer Michelle Horace..... Lafayette, IN
B.A., University of Illinois Champaign-Urbana; M.S., Indiana University Bloomington
Dissertation: Conceptions of Change: A Phenomenographical Study of the Reinvention Initiative at the City Colleges of Chicago
Advisor: Dr. J Satterfield

Laura Kay McMaster Littlestown, PA
B.A., University of Pittsburgh; M.Ed., University of Georgia
Dissertation: The Impact Institutional Culture Has on Women's Political Leadership Efficacy Development
Advisor: Dr. R Marion

Educational Leadership (continued)

- Jonathan Christopher PettigrewMacon, GA
B.S., Tuskegee University; M.S., Troy University
Dissertation: An Interpretative Phenomenological Study Exploring the Experiences of African American Males in Same Race/Gender Mentoring Relationships While Attending a Predominately White Institution in the South
Advisor: Dr. J Satterfield
Jonathan was named a University Council of Educational Administration Barbara L Jackson Scholar 2013-15, and was initiated into the National Honor Society of Phi Kappa Phi in 2014.
- Matthew Joseph Piotrowsky..... Pendleton, SC
B.S., Lander University; M.Ed., Clemson University
Dissertation: The Impact of Leadership on School Culture and Student Achievement
Advisor: Dr. R Knoeppel
- Catherine Team Sturm Columbia, SC
B.S., Coastal Carolina University; M.S., Capella University
Dissertation: Exploring the Perceptions of Campus Climate Among Mixed Race Students Attending a Predominately White Institution
Advisor: Dr. T Cawthon
Catherine is a member of Phi Kappa Phi, and is actively seeking employment at a four-year or two-year higher education institution in student services.
- De Morris Walker Snellville, GA
B.A., University of California; M.B.A., Claremont Graduate University
Dissertation: Parent and Family Engagement Practices: A Case Study of a Pre-Collegiate Summer Program
Advisor: Dr. J Satterfield, Jr.

COLLEGE OF ENGINEERING AND SCIENCE

DOCTOR OF PHILOSOPHY

Automotive Engineering

- Lujia FengHangzhou, China
B.S., Beijing Technology and Business University; M.S., Cornell University
Dissertation: Manufacturing System Energy Modeling and Optimization
Advisor: Dr. L Mears
Lujia has six peer-reviewed publications and a keen interest in sustainable manufacturing systems. She is exploring academic and industrial challenges.
- Shuonan Xu Suzhou, China
B.A., Nanjing Aero and Astro University
Dissertation: Physics-Based Models for Engine System Studies: Quasi-D Dual-Fuel Combustion and Real-Time Intake Charge Flow Estimation
Advisor: Dr. Z Filipi

Automotive Engineering (continued)

Nan ZhangDalian, China
B.S., Iowa State University
Dissertation: Material Characterization and Finite Element Simulations of Aluminum Alloy
Sheets During Non-Isothermal Forming Process
Advisor: Dr. F Abu-Farha

Bioengineering

Aesha Yogesh DesaiClemson, SC
B.S., M.S., Clemson University
Dissertation: Manipulating Cardiovascular Cellular Interactions and Mechanics:
A Multidimensional and Multimodal Approach
Advisor: Dr. D Dean

Nicholas R ErdmanCedar Rapids, IA
B.S., University of Iowa
Dissertation: Creation of a Pioneer-Neuron Axonal Pathfinding Model for Future Applications
in Developmental Neurotoxicity Testing
Advisor: Dr. B Gao

Yogender Kumar GowthamChennai, India
B.Tech., SASTRA University; M.S., Clemson University
Dissertation: Understanding the Transcriptional Landscape of Chinese Hamster Ovary (CHO)
Cell Lines using Next-Generation Sequencing Technology, RNA-Seq, Under Industrially
Relevant Conditions
Advisor: Dr. S Harcum
Yogender has two peer-reviewed publications and one patent. He plans to work in the
biopharmaceutical industry to reduce the cost of recombinant protein therapeutics.

Natasha K TopolukGreenfield, MN
B.S., M.S., Clemson University
Dissertation: Comprehensive Investigation into the Utility of Amnion Membrane Derived
Stem Cells for Orthopedic Regenerative Medicine Applications
Advisor: Dr. J Mercuri
Natasha has multiple peer-reviewed publications and conference proceedings. She was awarded
Clemson's Martin Luther King Jr Excellence in Service Award and the President's
Commission on the Status of Women Outstanding Woman Award in 2015.

Chemical Engineering

Kryssia Pamela Díaz Orellana San Salvador, El Salvador
B.S., Universidad Centroamericana Jose Simeon Canas
Dissertation: Low Cost, Carbon-Based Micro- and Nano-Structured Electrodes for High
Performance Supercapacitors
Advisor: Dr. M Roberts
Kryssia won 1st place in Clemson's HOOKEd on Microscopy 2014 contest and the People's
Choice Award in Clemson's 2015 Science as Art competition. She plans to work in the
semiconductor industry.

Chemical Engineering (continued)

Meng Zhang Beijing, China
B.S., M.S., Tianjin University
Dissertation: Carbon Fibers Derived from Dry-Spinning of Modified Lignin Precursors
Advisor: Dr. A Ogale
Meng has six peer-reviewed publications. She won 1st place for her poster at SPE Automotive Composites Conference in 2013, and won the People's Choice Award in Clemson's 2016 Science as Art competition.

Chemistry

Vibhor Agrawal..... Kanpur, India
B.Tech., Vellore Institute of Technology
Dissertation: Exploring Allosteric Modulation of G-Protein Coupled Receptors
Advisor: Dr. B Dominy
Vibhor received a Young Investigator Award from the Alzheimer's Drug Discovery Foundation and will be working in health studies to devise improved predictive analytics.

Carlos Angelé-MartínezSan José, Costa Rica
B.S., University of Costa Rica
Dissertation: Prevention of DNA Damage and Reactive Oxygen Species Generation by Fe(II), Co(II), Cu(I), and CuO Nanoparticles with Polyphenol and Neurotransmitter Antioxidants
Advisor: Dr. J Brumaghim
Carlos has two peer-reviewed publications, and his work has been presented at the ACS National Meeting and the Metals in Biology Gordon Conference. He is working with Dr. S Altman at Yale University.

Sabina Maskey..... Central, SC
M.S., Tribhuvan University
Dissertation: Conjugated Polymers Under Confinement: Molecular Dynamics Simulations Study
Advisor: Dr. D Perahia

Umesh Man Shrestha Central, SC
B.S., M.S., Tribhuvan University
Dissertation: Interfacial Properties of Siloxane Containing Semifluorinated Diblock Copolymer and Nanocomposite Under Confinement
Advisor: Dr. D Perahia

Adam Michael Siegfried Hartsville, SC
B.A., Coker College; M.S., Clemson University
Dissertation: Development of Sulfur and Selenium Halogen Bonded Synthons and Mechanosynthesis of Halogen Bonded Cocrystals
Advisor: Dr. W Pennington

Bradley S StadelmanMogadore, OH
B.S., Ohio University
Dissertation: Synthesis, Characterization, and Reactivity of Iron(II) and Zinc(II) Complexes of Imidazole Thione and Selone Ligands: Investigations into Oxidation Mechanisms
Advisor: Dr. J Brumaghim

Civil Engineering

Tanjina AfrinDhaka, Bangladesh
B.Sc., M.Sc., Bangladesh University of Engineering and Technology
Dissertation: Numerical Investigation of Porous and Non-porous Pipe with Free Overfall
Advisors: Dr. N Kaye and Dr. A Khan
Tanjina plans to work in engineering education.

Computer Science

Biswajit Mazumder.....Durgapur, India
B.Tech., MSRIT, Visvesvaraya Technological University; M.S., Clemson University
Dissertation: Efficient and Reliable Task Scheduling, Network Reprogramming, and
Data Storage for Wireless Sensor Networks
Advisors: Dr. B Malloy and Dr. J Hallstrom
Jeet has authored eight peer-reviewed publications and is currently working as a software
engineer at Nimble Storage in Raleigh, NC.

John Yates Monteith Columbia, SC
B.S., Manhattan College; M.S., Clemson University
Dissertation: Software Development and Platform Adoption as Successive Games of Real
Options Investment and Valuation
Advisor: Dr. J McGregor
Yates served in the Graduate Student Government Senate for four years, on the IT Student
Advisory Board for three years, and authored more than ten peer-reviewed publications.

Stephen Schaub.Greer, SC
B.S., Bob Jones University; M.S., University of North Texas
Dissertation: An Investigation into the Generality of a Graphical Representation of Program
Code for Source to Source Translation
Advisor: Dr. B Malloy
Stephen coauthored the winning paper in Clemson's 2014 Embedded Network Systems mini-
conference. He will continue as a faculty member at Bob Jones University.

Electrical Engineering

Harshwardhan Dilip KarveNashik, India
B.E., University of Pune; M.S., Clemson University
Dissertation: Online Parameter Estimation and Adaptive Control of Magnetic Wire Actuators
Advisor: Dr. R Groff

Parimal Saraf..... Clemson, SC
B.S., University of Pune; M.S, Clemson University
Dissertation: Design of a Wide Area Controller Using Eigenstructure Assignment in
Power Systems
Advisor: Dr. E Makram

Ke Tang Chengdu, China
B.S., Huazhong University of Science and Technology; M.S., Chinese Academy of Sciences
Dissertation: Wide Area Signals Based Damping Controllers for Multi-machine
Power Systems
Advisor: Dr. G Venayagamoorthy

Environmental Engineering and Science

Habibullah Uzun Istanbul, Turkey

B.S., Sakarya University; M.S., Michigan State University

Dissertation: N-Nitrosodimethylamine in Drinking Water: Temporal Formation
Potential Patterns in Source Waters and Treatability of Precursors

Advisor: Dr. T Karanfil

Habibullah has four peer-reviewed publications, was named the EES department's

Outstanding Graduate Student in 2015, and is seeking a faculty position.

Human Centered Computing

Andrea Beth Campbell[†] Hampton, VA

B.S., M.S., East Tennessee State University

Dissertation: Technology Assisted Sexual Health Agent (TASHA)

Advisor: Dr. S Babu

[†]Degree Awarded Posthumously

Industrial Engineering

Sijun Shen Nanjing, China

B.S., China University of Mining and Technology; M.I.S.E., Auburn University

Dissertation: Quantifying Drivers' Responses to Failures of Semi-autonomous
Vehicle Systems

Advisor: Dr. D Neyens

Materials Science and Engineering

Monte Scott Bedford Racine, WI

B.A., M.M., University of Wisconsin; B.S., University of Southern Mississippi; M.S.,
Clemson University

Dissertation: Phosphonium Polymers: Synthesis and Baseline Properties for a New Class of
Polyelectrolytes

Advisor: Dr. R Smith

Mathematical Sciences

Michael Christian Dowling, Jr. Easley, SC

B.S., Bob Jones University; M.S., Clemson University

Dissertation: Expander Graphs and Coding Theory

Advisor: Dr. X Gao

Michael has accepted a postdoctoral position working with Dr. M Pursley in the electrical
engineering department at Clemson University.

Rachel Elizabeth Grotheer Seneca, SC

B.A., Denison University; M.S., Clemson University

Dissertation: Hyperspectral Diffuse Optical Tomography Using the Reduced Basis Method
and Sparsity Constraints

Advisor: Dr. T Khan

Rachel has three publications, won the Department of Mathematical Sciences' Outstanding
Citizenship award three times, and will join the faculty of Goucher College in the fall.

Mathematical Sciences (continued)

Jason Todd Hedetniemi..... Clemson, SC
B.S., Furman University; M.S., Clemson University
Dissertation: Problems in Domination and Graph Products
Advisor: Dr. K James
Jason is an author or co-author of nine peer-reviewed publications, and was named an Outstanding Master's Student in the Department of Mathematical Sciences in 2012.

Honghai Xu Duyun, China
B.S., Lanzhou University; M.S., Clemson University
Dissertation: Generalized Colorings of Graphs
Advisor: Dr. W Goddard

Mechanical Engineering

Rohan Ram GalgalikarAkola, India
B.Tech., Veermata Jijabai Technological Institute; M.S., Clemson University
Dissertation: Computational Engineering Analysis of Materials and Structural Aspects of Gas Turbine Engine Ceramic Matrix Composite Components
Advisor: Dr. M Grujicic

Rahul Sharan RenuBangalore, India
B.E., Visvesvaraya Technological University; M.S., Clemson University
Dissertation: Product-Process Coupling to Enable Continuous Improvement of Assembly Processes
Advisor: Dr. G Mocko
Rahul has accepted a faculty position at Francis Marion University as assistant professor of industrial engineering.

Xinran Tao Chengdu, China
B.S., Kunming University of Science and Technology
Dissertation: Design, Modeling and Control of a Thermal Management System for Hybrid Electric Vehicles
Advisor: Dr. J Wagner

Tianwei WangTianjin, China
B.S., M.S., East China University of Science and Technology
Dissertation: Investigation of Advanced Engine Cooling Systems – Optimization and Nonlinear Control
Advisor: Dr. J Wagner
Tianwei has more than 10 peer-reviewed publications and one patent.

Jian Zhou.....Xiangxiang, China
B.S., Xi'an Jiaotong University
Dissertation: In Vitro Multi Scale Models to Study the Early Stage Circulations for Single Ventricle Heart Disease Palliations
Advisor: Dr. R Figliola

Physics

Amanpreet KaurLudhiana, India
M.Sc., Punjabi University; M.S., Clemson University
Dissertation: The Puzzling Bulge to Disk Nova Ratio in the Andromeda Galaxy (M31)
Advisor: Dr. D Hartmann

Endu Sekhar Srinadhu Visakhapatnam, India
B.Sc., Andhra University; M.Sc., Pondicherry University; M.S., Clemson University
Dissertation: Defect Assisted Growth of Copper Silicide Nanostructures on Si(100)
and Si(111)
Advisor: Dr. C Sosolik
Endu has submitted work for publication in three peer-reviewed journals and plans to work in
the semiconductor industry.

COLLEGE OF HEALTH, EDUCATION AND HUMAN DEVELOPMENT DOCTOR OF PHILOSOPHY

International Family and Community Studies

Albina BalidemajSaint Paul, MN
B.S., University of Minnesota; M.S., University of Prishtina
Dissertation: Acculturation, Ethnic Identity and Psychological Well-Being of Albanian-
American Immigrants in the United States
Advisor: Dr. M Small

Jasmine Michelle Hedge Yorktown, VA
B.S., The College of William and Mary
Dissertation: Children of Incarcerated Parents: The Relation of Contact and Visitation to
the Parent-Child Relationship and Internalizing and Externalizing Problems
Advisor: Dr. S Limber
Jasmine received the 2013 Kimbrough and Melton Parents Award and was the College's
2012-13 Outstanding Graduate Student. She received a grant from the Society for the
Psychological Study of Social Issues for her doctoral research.

Parks, Recreation and Tourism Management

Alana Nicole Seaman.....Ralston, NE
B.A., College of Saint Mary; M.S., University of Illinois
Dissertation: Exploring the Connections between Literary Places, Literary Texts, and
Tourist Performance
Advisor: Dr. G Ramshaw
Alana has accepted a faculty position at the University of North Carolina Wilmington.

CLEMSON ALMA MATER

Farmer and McGarity/arr. Freeman

Where the Blue Ridge yawns its greatness,
Where the Tigers play;
Here the sons of dear old Clemson
Reign supreme alway.

Chorus

Dear old Clemson, we will triumph
And with all our might,
That the Tiger's roar may echo
O'er the mountain height.

We will dream of greater conquests,
For our past is grand,
And her sons have fought and conquered
Every foreign land.

Where the mountains smile in grandeur
O'er the hill and dale.
Here the Tiger lair is nestling
Swept by storm and gale.

We are brothers strong in manhood,
For we work and strive;
And our alma mater reigneth
Ever in our lives.

Candidates appearing in this program are not certified graduates. Likewise, academic honors designations are based upon performance prior to final grades. Both certification of graduation and honors designations must come from the Registrar of the University.

The logo for Clemson University, featuring the word "CLEMSON" in a large, orange, serif font above the word "UNIVERSITY" in a smaller, blue, sans-serif font. A thin blue horizontal line is positioned between the two words.

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