

CLEMSON UNIVERSITY

Doctoral Hooding Ceremony

NOVEMBER 15, 2020



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DOCTORAL HOODING CEREMONY

SUNDAY, NOVEMBER 15, 2020

5:00 P.M.

BON SECOURS WELLNESS ARENA

GREENVILLE, SOUTH CAROLINA

HONORING THE DOCTORAL GRADUATES
OF MAY 2020 AND AUGUST 2020

ORDER OF CEREMONIES

PROCESSIONAL

Stage Party

NATIONAL ANTHEM

(Please stand as you are able)

REFLECTION

Kaitlyn Samons

President, Graduate Student Government

WELCOME AND INTRODUCTIONS

Associate Provost and Dean of the Graduate School

John Lopes

and

Executive Vice President for Academic Affairs and Provost

Robert H. Jones

CONFERRING OF DEGREES

President James P. Clements

ALMA MATER

Today's ceremony is being streamed live with captioning at tv.clemson.edu.

The recording will be posted at tv.clemson.edu/live/archive when available.

Sign language interpretation available on the arena floor near the stage.

Captioning displayed on center-hung scoreboard and screens beside the stage.

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Dean of Undergraduate Studies

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Associate Provost and
Dean of the Graduate School

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THE GRADUATE SCHOOL

John Lopes
Associate Provost and Dean of the Graduate School
David S. Fleming
Associate Dean
William G. Ferrell
Associate Dean
Brian N. Dominy
Associate Dean
Tia N. Dumas
Assistant Dean for Professional Development and
Inclusive Excellence

GRADUATE STUDENT GOVERNMENT

Kaitlyn Samons, President
John Porter III, Vice President
Naga Venkata Sai Teja, Greenville Council Vice President

ASSOCIATE DEANS AND DEPARTMENT CHAIRS

COLLEGE OF AGRICULTURE, FORESTRY AND LIFE SCIENCES

Paula Agudelo
Associate Dean of Research
Jean Bertrand
Associate Dean of Undergraduate Studies
Thomas Dobbins
Associate Dean of Outreach and Engagement

Charles V. Privette, III Agricultural Sciences
Charles F. Rosenkrans, Jr..... Animal and Veterinary Sciences
J. Keith Bertrand, interim..... Food, Nutrition, and Packaging Sciences
Todd Petty..... Forestry and Environmental Conservation
Carlyle C. Brewster Plant and Environmental Sciences

COLLEGE OF ARCHITECTURE, ARTS AND HUMANITIES

James M. Burns
Interim Associate Dean for Undergraduate and Graduate Studies
Winifred E. Newman
Associate Dean for Research and Academic Affairs

James C. Stevens School of Architecture
Valerie A. Zimany..... Art
John A. Gaber..... City Planning and Real Estate Development
N. Mike Jackson..... Construction Science and Management
Susanna M. Ashton English
Amit Bein, interim..... History
Salvador A. Oropesa Languages
Linda Dzuris, acting..... Performing Arts
Kelly C. Smith, interim..... Philosophy and Religion

COLLEGE OF BEHAVIORAL, SOCIAL AND HEALTH SCIENCES

Rachel M. Mayo
Interim Associate Dean for Research and Graduate Studies
Denise M. Anderson
Associate Dean for Undergraduate Studies and Faculty Affairs

Kathleen L. Valentine School of Nursing
Joseph P. Mazer, Jr..... Communication
Jeffrey Hallo, interim..... Parks, Recreation and Tourism Management
Jeffrey S. Peake Political Science
Patrick H. Raymark..... Psychology
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Katherine E. Weisensee Sociology, Anthropology and
Criminal Justice

WILBUR O. AND ANN POWERS COLLEGE OF BUSINESS

Gregory M. Pickett
Associate Dean, Director of M.B.A. Programs and Greenville ONE
Carl W. Hollingsworth
Associate Dean for Academic Affairs

Sally K. Widener School of Accountancy
Scott L. Baier Economics
Angela G. Morgan..... Finance
Charles “Chip” Tonkin..... Graphic Communications

Craig Wallace Management
Jennifer D. Siemens, interim Marketing

COLLEGE OF EDUCATION

Jeff C. Marshall
Associate Dean for Research and Graduate Studies
Michelle P. Cook
Associate Dean for Undergraduate Studies
and Faculty Engagement

Debi M. Switzer Education and Human Development
Jane Clark Lindle..... Educational and Organizational
Leadership Development
Cynthia Deaton Teaching and Learning

COLLEGE OF ENGINEERING, COMPUTING AND APPLIED SCIENCES

Douglas E. Hirt
Associate Dean for Faculty Achievement and Strategic Initiatives
Daniel L. Noneaker
Associate Dean for Research
Bradley J. Putman
Associate Dean for Undergraduate Studies
Oliver J. Myers
Associate Dean for Inclusive Excellence – Undergraduate
Melissa C. Smith
Associate Dean for Inclusive Excellence – Graduate

Zoran S. Filipi Automotive Engineering
Martine LaBerge Bioengineering
David A. Bruce Chemical and Biomolecular Engineering
Jesus M. de la Garza..... Civil Engineering
Amy W. Apon School of Computing
Hai Xiao, interim..... Electrical and Computer Engineering
Cindy M. Lee Engineering and Science Education
David L. Freedman Environmental Engineering and
Earth Sciences
R. Joe Watkins General Engineering
Jeffrey P. Kharoufeh Industrial Engineering
Kyle S. Brinkman Materials Science and Engineering
Atul Kelkar Mechanical Engineering

COLLEGE OF SCIENCE

Stephen E. Creager
Associate Dean for Discovery, Graduate Education,
Space Optimization and Faculty Affairs
Calvin L. Williams
Associate Dean for Undergraduate Excellence, Global Engagement,
Community Engagement and Inclusive Excellence

Saara DeWalt Biological Sciences
William T. Pennington Chemistry
David F. Clayton..... Genetics and Biochemistry
Kevin L. James School of Mathematical and Statistical Sciences
Sean D. Brittain..... Physics and Astronomy

Special Thanks to Graduate Program Directors and Staff

Although there are too many to list, the graduate program coordinators, graduate faculty, administrative contacts, and student services coordinators for each graduate degree program are essential to the success of graduate education at Clemson University. We thank each and every one of you.

GRADUATE STUDENT AWARDS

PRESENTED MAY 2020

OUTSTANDING GRADUATE TEACHING ASSISTANT AWARD

Faculty rely on the work of graduate teaching assistants to help them educate their students. Some of those teaching assistants discover that they have a special talent for teaching and become highly effective educators, even at this early stage in their careers. Each year the Graduate Fellowships and Awards Committee names the best graduate teaching assistants across all disciplines. The recipients receive a medallion and a cash award, and have their names engraved on a permanent plaque in the Graduate School.

Jenna Crowder

Nominated by Dr. Michael Ferro
Plant and Environmental Sciences

Mitra Shabani

Nominated by Dr. Garrett Pataky
Mechanical Engineering

OUTSTANDING GRADUATE RESEARCHER AWARD

Graduate researchers make vital contributions to Clemson University's research mission. Each year, the Graduate Fellowships and Awards Committee names the best graduate researchers across all disciplines. The recipients receive a medallion and a cash award, and have their names engraved on a permanent plaque in the Graduate School.

Emilie Adams

Nominated by Dr. Teresa Tucker
Parks, Recreation and Tourism Management

Longxiang Guo

Nominated by Dr. Yunyi Jia
Automotive Engineering

FRANKIE O. FELDER

GRADUATE STUDENT AWARD OF EXCELLENCE

Frankie O. Felder, Senior Associate Dean Emerita, was an inspirational model for persistence and academic excellence during her 32 years as a leader at Clemson University. The Frankie O. Felder Graduate Student Award of Excellence is presented to a deserving graduate student who exemplifies the qualities exhibited by Dr. Felder during her esteemed career. Winners are chosen based on their inspiring presence for peers and others through perseverance or resilience in the face of challenges or adversity, and on their academic excellence as determined by high performance and engaged activity in several aspects of the academic program. The award includes a medallion and a cash prize along with recognition at a graduation ceremony.

Ingrid Nyakabwa

Nominated by Dr. Elizabeth Baldwin
Parks, Recreation and Tourism Management

DOCTORAL PIN NEW FOR 2020

Earning a doctoral degree is never easy. Finishing a program in the midst of a global pandemic is truly remarkable. To honor the extraordinary dedication and achievement of our 2020 doctoral graduates, each one will receive a lapel pin designed just for this year's doctoral graduates. Those here today will receive their pins on stage. Pins will be mailed to those who could not attend.

The pin features a block "C" logo that was in use in 1955 when Clemson awarded its first doctoral degree. Across the C are three stripes like the ones graduates are wearing on their sleeves today.

The pin will serve as a reminder to the graduate and a signal to all that the wearer was one of fewer than 300 students who earned the title of "Doctor" at Clemson University in 2020.

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-inch-long doctoral hood is usually draped over the shoulders by the faculty member who, as chair of the advisory committee, has formally mentored and guided the student's research and education. Because of the COVID-19 precautions being taken for today's ceremony, graduates will be wearing their hoods when they enter the arena.

You will note that faculty members are wearing gowns, caps and hoods of many colors and designs. These academic costumes of medieval origin are, for faculty with degrees from U.S. institutions, specified by a uniform code maintained by the American Council on Education. Caps are black and are usually mortar boards or tams with tassels. Doctors of philosophy wear gold tassels usually of metallic thread; those with other degrees wear black or discipline colors. Those who have received their degrees from institutions outside the United States wear regalia specified by the awarding institutions.

Doctors' gowns are full, with bell-like sleeves. The front is bordered with velvet panels and the sleeves are marked by three velvet bars. While some gowns are black with black velvet, one variation is to replace black velvet with velvet in the discipline color. A second variation is a colored gown usually of the university's colors.

All hoods specify the level of degree, the type of discipline studied and the awarding institution. The width of the velvet trim conveys the degree. In addition, the degree is indicated by the color of the trim edging the hood to form the throat over the gown. The most frequently seen color is dark blue, which designates the Doctor of Philosophy (Ph.D.) degree. Finally, the color of the hood's lining is specific to the awarding institution. The colors are displayed in combinations that are drawn from heraldry. Notice that the Clemson University hood is lined with purple through which is an orange chevron (a "V"). Although many combinations are duplicated by dozens of institutions, Clemson is presently the only institution with that registered combination of purple and orange.

The officers, trustees and honored guests wear academic, ecclesiastical or military regalia as set forth by their professions. The president of Clemson University wears a purple gown with four velvet bars piped in orange and the University seal embroidered on the panels. Each trustee wears a similar gown with three velvet bars piped in orange for doctorates and an embroidered palmetto tree on each sleeve for those who do not hold doctorates. Trustee hoods are either from Clemson or from the awarding school.

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. He used his degree in vocational education to serve as a 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 more than 5,000 graduate students and is committed to continued growth at both the master's and doctoral levels.

1. Holmes, A. and G.R. 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.

CANDIDATES FOR THE DOCTORAL DEGREE

John Lopes, Dean of the Graduate School

COLLEGE OF AGRICULTURE, FORESTRY AND LIFE SCIENCES

DOCTOR OF PHILOSOPHY

Entomology

Laura María Vásquez-Vélez.....Clemson, SC
B.S., Universidad del Valle; M.S., University of Puerto Rico
Dissertation: Evolution of Secondary Sexual Characters in Pselaphinae (Coleoptera:
Staphylinidae)
Degree conferred August 2020
Advisor: Dr. Michael Caterino

Food Technology

Omar Ahmed Abdullah A. Al-Mahmood.....Ninewa, Iraq
B.S., University of Mosul
Dissertation: Microbiological Safety of Halal Beef in the United States
Degree conferred May 2020
Advisor: Dr. Angela Fraser
Omar has six peer-reviewed publications. He plans to return to his position as lecturer at the
Veterinary Public Health Department at Mosul University, Iraq.

Hansol Doh.....Seoul, South Korea
B.S., M.S., Korea University
Dissertation: Development of Seaweed Biodegradable Nanocomposite Films Reinforced
with Cellulose Nanocrystals for Food Packaging
Degree conferred August 2020
Advisor: Dr. William Whiteside

Forest Resources

Tristan Alan Pierre Allerton.....Wolverhampton, United Kingdom
B.Sc., University of Birmingham; M.Sc., University of Copenhagen and AgroParisTech
Dissertation: Functional Attributes of Post-Disturbance Regeneration in Puerto Rican
Tropical Dry Forest
Degree conferred August 2020
Advisor: Dr. Skip Van Bloem

Plant and Environmental Sciences

Abeer Safir Alqurashi.....Makkah, Saudi Arabia
B.S., Umm Al-Qura University; M.S., Tarif University
Dissertation: *Langdonia walkeria* sp. nov. Causal Organism of Smut on Two *Aristida* Species
in Longleaf Pine-Grassland Ecosystems in the Southeastern USA
Degree conferred August 2020
Advisor: Dr. Julia Kerrigan

Cengiz Koparan Clemson, SC
B.S., Ankara University; M.B.M., Cambridge College; M.S., Clemson University
Dissertation: UAV-Assisted Water Quality Monitoring
Degree conferred August 2020
Advisor: Dr. Bulent Koc

Joshua Randall Weaver Pendleton, SC
B.S., American Public University; M.S., Clemson University
Dissertation: Evaluating Biological Thatch Control on Golf Greens
Degree conferred May 2020
Advisor: Dr. Lambert McCarty

Wildlife and Fisheries Biology

Laura C. Gigliotti Plymouth, MA
B.A., Colby College; M.S., Pennsylvania State University
Dissertation: Individual, Population, and Community-Level Drivers of Cheetah (*Acinonyx jubatus*) Population Dynamics
Degree conferred May 2020
Advisor: Dr. David Jachowski

COLLEGE OF ARCHITECTURE, ARTS AND HUMANITIES

DOCTOR OF PHILOSOPHY

Planning, Design and the Built Environment

Xiaotong Liu Nei Mongol, China
B.Ag., China Agricultural University; M.L.A., Clemson University
Dissertation: Healthy Designed Environments for Pre-School Children: Investigating Ways to Optimize the Restoration Experience in Nature-Based Outdoor Play Environments
Degree conferred May 2020
Advisor: Dr. Mary Padua

Goulwendin Alexia B. Nikyema Ouagadougou, Burkina Faso
B.A., B.Arch., M.Arch., M.S., New York Institute of Technology
Dissertation: Barriers to the Adoption of Green Building Materials and Technologies in Developing Countries: The Case of Burkina Faso
Degree conferred May 2020
Advisor: Dr. Vincent Blouin

Goulwendin has two peer-reviewed publications and three pending. Her multicultural upbringing has influenced her work on architecture and sustainability. Her long-term endeavor is to help communities in developing countries meet their sustainable development goals through culturally-adapted designs and policies.

Rhetorics, Communication, and Information Design

Whitney Jordan AdamsCharleston, WV

B.A., University of South Carolina; M.A., College of Charleston and the Citadel
Dissertation: A Rhetoric of Resentment: Dismantling White Supremacy Through
Definition, Scholarship, and Action

Degree conferred May 2020

Advisor: Dr. Cameron Bushnell

Whitney has two peer-reviewed publications in addition to a forthcoming book chapter. She has accepted a faculty position in the Department of English, Rhetoric, and Writing at Berry College in Rome, Georgia.

Karyn S. Campbell..... Travelers Rest, SC

B.A., Valparaiso University; M.A., University of South Carolina

Dissertation: Student Journalists and Mass Communication Ethics – Attitudes and
Pedagogy

Degree conferred May 2020

Advisor: Dr. Bryan Denham

Karyn is an assistant professor in mass communication at North Greenville University.

Amy Patterson..... New York, NY

B.A., Missouri University of Science and Technology; M.A., Northwestern University

Dissertation: Soundscapes for Social Change: Community and Consciousness Through
Sound Design Rhetorics

Degree conferred May 2020

Advisor: Dr. Cynthia Haynes

Michael T. Russo..... Gloucester City, NJ

B.A., Pacific University; M.A., Rutgers University

Dissertation: Dark Rhetoric: Post-Truth, Post-Lies, Turmeric Tea

Degree conferred August 2020

Advisors: Dr. Steven Katz and Dr. David Blakesley

Christopher Michael Stuart..... Manahawkin, NJ

B.A., Montclair State University; M.A., Eastern Michigan University

Dissertation: Rhetorical Invention in a 21st Century Technoculture: A New Ludic
Framework for Learning

Degree conferred May 2020

Advisor: Dr. Jan Holmevik

Octaviyanti Dwi Wahyurini..... Surabaya, Indonesia

B.Eng., Sepuluh Nopember Institute of Technology; M.A.D.A., Curtin University

Dissertation: Dramatistic User Experience Design: The Usability Testing of an
e-Government System in a Non-Western Setting

Degree conferred May 2020

Advisor: Dr. David Blakesley

Octaviyanti is a Fulbright Scholar, has three peer-reviewed publications, and has accepted a faculty position as an assistant professor in visual communication design at the Institut Teknologi Sepuluh Nopember in Surabaya, Indonesia.

COLLEGE OF BEHAVIORAL, SOCIAL AND HEALTH SCIENCES

DOCTOR OF NURSING PRACTICE

Nursing Practice

Lauren Craft DyerAnderson, SC

B.S., M.S., Clemson University

Dissertation: Active Shooters in Primary Care: Equipping Our Employees with Confidence and Knowledge to Survive

Degree conferred August 2020

Advisor: Dr. Jennifer Rice

Lauren has one peer reviewed publication and another in review. She currently serves on the faculty in the Clemson University School of Nursing and works as a nurse practitioner at Michelin.

Tanya DyerLincolnton, NC

B.S., University of North Carolina-Charlotte; M.S., East Carolina University

Dissertation: Menopause and the Impact on Obesity: A Helpful Toolkit

Degree conferred August 2020

Advisor: Dr. Stephanie Davis

Melinda Hunter JenkinsSalem, SC

B.S., Clemson University; M.S., Emory University

Dissertation: Communicating the “HEART” Model with Nurse-Led Recommendations to Integrate Palliative Care Appropriately into the Care of Advanced Heart Failure Patients and Families

Degree conferred August 2020

Advisor: Dr. Tracy Fasolino

Melinda is an experienced nurse practitioner with 20+ years of caring for patients in a variety of settings. She is a 2020 Palmetto Gold Award recipient. She has a special interest in palliative/end of life care for elders, focusing on quality of life for those with chronic illness.

Tiffany Leah StewartSix Mile, SC

B.S., M.S., Clemson University

Dissertation: Implementation of Workplace Violence Prevention Training for Community Healthcare Providers

Degree conferred August 2020

Advisor: Dr. Jean Ellen Zavertrnik

Lisa Mittie WallaceDarlington, SC

B.S., M.S., Francis Marion University

Dissertation: The Impact of an Education Program on School-Based Telehealth and Parent Willingness to Use Telehealth

Degree conferred August 2020

Advisor: Dr. Stephanie Davis

DOCTOR OF PHILOSOPHY

Applied Health Research and Evaluation

Elizabeth Charron Athens, GA

M.P.H., Tulane University; M.S., Clemson University

Dissertation: Contraceptive Provision and Initiation Among Women With and Without
Substance Use Disorders: Trends, Patterns and Practices

Degree conferred May 2020

Advisor: Dr. Rachel Mayo

Ellen Cross Francis Phoenixville, PA

B.A., University of Southern Maine; M.S., Clemson University

Dissertation: Identifying Determinants of Gestational Diabetes and Fetal Growth: Insights
on the Role of Adipokines and Vitamin D

Degree conferred May 2020

Advisor: Dr. Karen Kemper

Brian Christopher Helsel..... Grand Rapids, MI

B.S., Grand Valley State University; M.S., Western Michigan University; M.S., Clemson
University

Dissertation: Ready, STEADI, Balance: Exploring Fall-Related Risk Factors in a
Longitudinal Sample of Medicare Beneficiaries and South Carolina Emergency
Department Encounters Using the Social Ecological Model

Degree conferred May 2020

Advisors: Dr. Karen Kemper and Dr. Joel Williams

Healthcare Genetics

Lauren Ashley Beretich..... Fort Worth, TX

B.S., Clemson University; M.S., University of Alabama

Dissertation: The Telehealth Experience in Clinical Genetics

Degree conferred August 2020

Advisor: Dr. Jane DeLuca

Tracy Brock Lowe..... Abbeville, SC

B.S., M.S., Clemson University

Dissertation: Perspectives on Phenylalanine Hydroxylase Deficiency: Exploring
Neuropsychiatric Outcomes, Treatment Guidelines, and Pharmacotherapy

Degree conferred May 2020

Advisor: Dr. Jane DeLuca

Satishkumar Ranganathan Ganakammal..... Chennai, India

B.Tech., Anna University; M.S., Indiana University

Dissertation: Utilization of Computational Approaches for Enhanced Assessment and
Interpretation of Clinical Significance of Variants

Degree conferred May 2020

Advisors: Dr. Jane DeLuca and Dr. Emil Lexov

Satish has three peer-reviewed publications and works as a computational genomics specialist in the
Bioinformatics and Computational Biosciences Branch (BCBB) of the National Institute of Allergic
and Infectious Disease (NIAID). He aims to become a computational genomics entrepreneur.

Human Factors Psychology

Darlene Elise EdewaardHawthorne, NJ

B.A., William Paterson University; M.S., Clemson University
Dissertation: The Daytime Conspicuity Benefits of Rear-Facing Bike Lights
Degree conferred August 2020
Advisor: Dr. Richard Tyrrell

Michael Shreeves.....Huntsville, AL

B.A., M.A., University of Alabama
Dissertation: Preference Construction in Difficult Multi-Attribute Health Decisions:
Effects of Affect and Coherence Shifting
Degree conferred May 2020
Advisor: Dr. Leo Gugerty

Industrial–Organizational Psychology

Michelle Leigh Flynn Mansfield, MA

B.A., M.S., Clemson University
Dissertation: Towards More Efficient Behavioral Coding of Teamwork via Machine
Learning
Degree conferred August 2020
Advisor: Dr. Marissa Shuffler

Elyssa Raquel Johnson The Woodlands, TX

B.S., Texas Christian University; M.S., Clemson University
Dissertation: Burnout and Poor Health Resulting from Resource Loss: A Longitudinal
Examination of Loss Spirals
Degree conferred May 2020
Advisor: Dr. Robert Sinclair

International Family and Community Studies

Shuiping Jiang..... Qingdao, China

B.S., Shandong University of Technology; M.A., Qingdao University
Dissertation: A Model of Understanding Choice of University by International Students:
A Two-Case Study
Degree conferred August 2020
Advisor: Dr. Mark Small

Kayla Lee Weston.....Simpsonville, SC

B.S., United States Naval Academy; M.S., Clemson University
Dissertation: Exploring the Relation Between Religiosity and Sexual Health Outcomes
Degree conferred May 2020
Advisors: Dr. Martie Thompson and Dr. Arelis Moore de Peralta

Parks, Recreation and Tourism Management

Emilie Viktoria Mottl Adams Branson, MO

B.S., M.S., Brigham Young University

Dissertation: The Feasibility of a Yoga Program on Successful Aging Among Long-Term
Care Residents: A Pilot Study

Degree conferred May 2020

Advisor: Dr. Marieke Van Puymbroeck

Em has received several awards and grants including Outstanding Graduate Researcher, Young Investigator Award through I-AYT, Academy on Violence and Abuse 2020 scholar, and the Recreation Therapy Foundation 2020 grant. She has accepted a faculty position at Lehman College.

Michael Patrick Blacketer..... Richland, WA

B.A., University of Washington; M.A., Conway School of Landscape Design

Dissertation: Illuminating Perceptions of Social-Ecological Complexity for More Holistic
Management of Parks and Protected Areas

Degree conferred May 2020

Advisor: Dr. Matthew Brownlee

E'Lisha Victoria Fogle..... Charlotte, NC

B.S., Virginia State University; M.S., University of North Texas and CATIE-Turrialba,
Costa Rica

Dissertation: Rising Black Voices of the Global South: Understanding Locals' Relationship
with Tourism in Livingstone, Zambia

Degree conferred May 2020

Advisor: Dr. Lauren Duffy

A Southern Regional Education Board Fellow, E'Lisha has two peer-reviewed publications. She received her department's 2019 Graduate Student Award of Excellence and is the program's second African American doctoral graduate. E'Lisha is an assistant professor at California State Polytechnic University, Pomona.

Heather Bright GleghornNew Castle, PA

B.S., Slippery Rock University; M.S., East Carolina University

Dissertation: Leadership, Competencies, and Clinical Supervision: A Mixed-Methods
Study of Clinical Supervision in Recreational Therapy

Degree conferred May 2020

Advisor: Dr. Brent Hawkins

Donna Lynne Gregory..... Silver Spring, MD

B.S., University of Maryland; M.B.A., Pennsylvania State University

Dissertation: The Influence of a Peer Support Camp on Siblings of Children with Cancer

Degree conferred August 2020

Advisor: Dr. Marieke Van Puymbroeck

Donna is Chief of Recreational Therapy at the National Institutes of Health. She received the Brett A. Wright Award for Graduate Student Achievement in 2020, and plans to continue to advance the profession through research and clinical practice.

Jang-Won Moon..... Seoul, Republic of Korea
B.A., Hankuk University of Foreign Studies; M.S., Texas A&M University
Dissertation: An Investigation of the Applicability of the Uses and Gratifications Theory
for Providing Insight into e-Tourists' Use of Smartphones
Degree conferred May 2020
Advisor: Dr. William Norman

Lisa Kay-Powles Olsen..... Malvern, IA
B.S., University of Northern Iowa; M.S., Southern Illinois University
Dissertation: Classification of Camps Based on the Levels of Novelty when Strangers Come
Together, to Do Strange Things, in a Strange Place
Degree conferred August 2020
Advisors: Dr. Gwynn Powell and Dr. Robert Bixler

Gail L. Orem.....Hockessin, DE
B.S., University of Delaware; M.S., West Chester University of Pennsylvania
Dissertation: The Comparison of Moral Reasoning Within Similar Sport and Social
Context
Degree conferred May 2020
Advisor: Dr. Skye Arthur-Banning

Brian Peterson..... Clemson, SC
B.A., University of San Diego; M.S., University of Utah
Dissertation: Advancing Spatiotemporal Research of Visitor Travel Patterns Within Parks
and Protected Areas Advancing Spatiotemporal Methods of Visitor Use Management
Degree conferred May 2020
Advisor: Dr. Matthew Brownlee
Brian has accepted a postdoctoral researcher appointment at Kansas State University.

Nese Yilmaz..... Adana, Turkey
B.S., Cukurova University; M.S., Texas A&M University
Dissertation: The Impact of Festival Participation on Social Well-Being and Subjective
Well-Being: A Study of the International Orange Blossom Carnival Visitors in Turkey
Degree conferred May 2020
Advisor: Dr. Sheila Backman

Policy Studies

Grant A. Allard..... Travelers Rest, SC
B.A., Furman University; M.B.A., Clemson University
Dissertation: Making Pandora's Box: The Politics of Science Funding
Degree conferred August 2020
Advisor: Dr. R. Andrew Hurley

Sulaiman Olawale Balogun..... Columbia, SC
B.S., Ladoke Akintola University of Technology
Dissertation: Essays on Agency and Higher Education Appropriation
Degree conferred May 2020
Advisor: Dr. Lori Dickes

Marcos Segantini Cóppola Montevideo, Uruguay
B.S., M.Ag., Universidad de la República
Dissertation: Three Essays on the Human and Social Capital Effects and Entrepreneurial
Firm Performance
Degree conferred May 2020
Advisor: Dr. Lori Dickes

WILBUR O. AND ANN POWERS COLLEGE OF BUSINESS

DOCTOR OF PHILOSOPHY

Business Administration

Wenxi Pu..... Chaoyang, China
B.Mgmt., B.A., Tianjin University; M.S., Clemson University
Dissertation: Sense of Self in the Context of Digitalization: Essays on Digital
Self-Continuity Conceptualization and Empirical Investigations
Degree conferred August 2020
Advisors: Dr. Philip Roth and Dr. Jason Thatcher

Shih-Lun Tseng Taipei, Taiwan
B.S., Georgia Institute of Technology; M.B.A., Clemson University
Dissertation: Gamified System Maladaptation Behaviors: A Conceptualization, Proposed
Measures, and Antecedents
Degree conferred May 2020
Advisors: Dr. Heshan Sun and Dr. Janis Miller

Economics

Khundkar Mohammad Arefin Kamal..... Dhaka, Bangladesh
B.Sc., North South University; M.Sc., University of York
Dissertation: Essays on Economic Conditions and the Living Arrangements of Young
Adults
Degree conferred May 2020
Advisors: Dr. Curtis Simon and Dr. Devon Gorry

Jeremy Worthington Choquette..... Richmond Hill, GA
B.A., Armstrong Atlantic State University
Dissertation: Three Papers in Applied Macroeconomics
Degree conferred May 2020
Advisors: Dr. Gerald Dwyer, Jr. and Dr. Robert Tamura
Jeremy has five peer-reviewed publications and currently works full-time as an economic consultant
and part-time as an adjunct faculty member at Tennessee Tech University and Clemson University.

Ahmed Eddhir Tripoli, Libya
B.S., Al Fateh University; M.S., Clemson University
Dissertation: Essays on the Industrial Organization of Internet Markets
Degree conferred August 2020
Advisor: Dr. Matthew Lewis

-
- Haibin Jiang Qingdao, China
 B.A., Qingdao University; M.A., Shandong University; M.A., Clemson University
 Dissertation: The Child Care Tax Credit, Maternal Labor Supply, and Children’s
 Well-Being
 Degree conferred August 2020
 Advisor: Dr. Patrick Warren
- Elijah Royal Neilson South Jordan, UT
 B.S., University of Utah; M.A., Clemson University
 Dissertation: Essays on the Determinants of Human Capital Investment
 Degree conferred May 2020
 Advisor: Dr. Robert Fleck
- Caitlin O’Loughlin King George, VA
 B.A., B.S., Virginia Tech; M.A., University of Texas–Arlington
 Dissertation: Three Essays on the Resiliency of Urban Infrastructure and Public Systems
 Degree conferred May 2020
 Advisor: Dr. Paul Wilson
- Benjamin James Posmanick Troy, IL
 B.S., Southern Illinois University
 Dissertation: The Effect of Tenure and Gender on Corporate Boards
 Degree conferred May 2020
 Advisor: Dr. Howard Bodenhorn
- Guanghua Wang Qidong, China
 B.S., M.S., Renmin University of China
 Dissertation: Frictions in the Youth Labor Market: Theory and Evidence
 Degree conferred May 2020
 Advisors: Dr. Curtis Simon and Dr. Aspen Gorry
- Kenneth D. Whaley Columbia, SC
 B.S., M.B.A., Florida A&M University
 Dissertation: An Economic Study of U.S. Housing and Education Policy
 Degree conferred May 2020
 Advisor: Dr. Andrew Hanssen
- Sarah L. Wilson West Suffield, CT
 B.S., Stonehill College
 Dissertation: Essays on the Determinants of Substance Use and Mental Health Among
 Mothers and Adolescents
 Degree conferred May 2020
 Advisor: Dr. Michael Makowsky

Shirong Zhao..... Weifang, China
B.A., Peking University; B.A., Renmin University of China; M.A., Tohoku University;
M.A., Clemson University
Dissertation: Essays on Benchmarking and Shadow Pricing
Degree conferred May 2020
Advisor: Dr. Paul Wilson
Shirong has one peer-reviewed publication and received the Hugh H. Macaulay Award for
Outstanding Graduate Student in 2017. He has accepted a postdoctoral fellow position in the
University of Tennessee’s Health Science Center.

COLLEGE OF EDUCATION

DOCTOR OF PHILOSOPHY

Curriculum and Instruction

McKenzie Hoxit Brittain Greenville, SC
B.S., M.Ed., Clemson University
Dissertation: Girls’ Construction of Mathematical Discourse in Single-Sex and
Coeducational Classroom Environments
Degree conferred May 2020
Advisor: Dr. Megan Che
McKenzie has accepted a faculty position at Marshall University.

Amaris Josephine Cordero Yonkers, NY
B.A., Arcadia University; M.A., Columbia University Teachers College
Dissertation: “Lost in the Sauce”: How Early Childhood Educators Navigate the Process of
Reporting Child Sexual Abuse
Degree conferred May 2020
Advisor: Dr. Sandra Linder

Educational Leadership

Jason M. Bailey Laurens, SC
B.A., M.Ed., University of South Carolina; Ed.S., Clemson University
Dissertation: “How Do I Shrink Myself?” A Veteran Assistant Principal’s Micropolitical
Experiences in an Unfamiliar Rural School
Degree conferred August 2020
Advisor: Dr. Daniella Hall

Tina Hughes Faulkner Laurens, SC
B.A., Lander University; M.A., Clemson University
Dissertation: Perceived Preparation in Prospective Career Ready Students Attending a
Rural High School in South Carolina
Degree conferred May 2020
Advisors: Dr. Daniella Hall and Dr. Michelle Boettcher

Mary Anis Hanna Greenville, SC
B.S., Bob Jones University
Dissertation: Investigating New CTE Teachers' Training and Support and How It
Influences Teacher Efficacy
Degree conferred August 2020
Advisor: Dr. Kristin Frady

Muri Lynn Howle Florence, CO
B.A., Winthrop University; M.Ed., Ed.S., Kent State University
Dissertation: Principal Support of Inclusive Educational Practices: A Multi-Case Study
Degree conferred May 2020
Advisor: Dr. Hans Klar

Donald Coleman Lawrimore, Jr. Newberry, SC
B.A., Clemson University; M.Ed., The Citadel
Dissertation: School-Based Instructional Leadership and Problem Solving: Principals'
Descriptions of Shared Issue Resolution
Degree conferred May 2020
Advisor: Dr. Jane Clark Lindle

Michael Bryan Moody..... Lexington, SC
B.S., M.A., University of South Carolina
Dissertation: Factors Influencing Students' Choice of an Institution of Higher Education
Degree conferred May 2020
Advisor: Dr. Michelle Boettcher

Troy Dean NunamakerMiddletown, OH
B.A., Wittenberg University; M.H.R.D., M.Ed., Clemson University
Dissertation: An Exploration Using Narrative Analysis of How Employers and College
Student Interns View and Explain the Development of the Career Readiness
Competency, Leadership
Degree conferred May 2020
Advisor: Dr. Tony Cawthon

Travis Cordell Smith..... Lafayette, AL
B.S., Alabama State University; M.S., Life University
Dissertation: Picture This: Examining the Experiences of Black SGA Presidents at HBCUs
Using Photo-Elicitation
Degree conferred May 2020
Advisors: Dr. Natasha Croom and Dr. Robin Phelps-Ward

Learning Sciences

Karen Rebecca Clark Central, SC
B.S., M.S., Clemson University
Dissertation: Let There Be Dragons! Towards Designing an Engaging Quest that Enhances
Curiosity and Learning About Genetics
Degree conferred May 2020
Advisor: Dr. Meihua Qian

Allyson Marie Wilcox Newnan, GA
B.A., State University of West Georgia; M.L.I.S., University of North Carolina–Greensboro
Dissertation: “We’ve Had Enough”: Youth Activists’ Pathways to Participation and Social
Media Practices Following the Parkland Shooting
Degree conferred August 2020
Advisor: Dr. Danielle Herro

Literacy, Language and Culture

Stephanie Madison Schenck..... Cherryville, NC
B.A., College of Charleston; M.A., Appalachian State University
Dissertation: The Trump Effect and the Damage Done: A Mixed Methods Study Exploring
Sociopolitical Hostility and Teacher Responses in Language Classrooms
Degree conferred May 2020
Advisor: Dr. Phillip Wilder

Special Education

Simone Elyse Adams..... Easley, SC
B.S., Clemson University; M.A., Furman University
Dissertation: The Impact of Self-Regulated Strategy Development on the Expository
Writing Performance of High School Students At-Risk for Emotional and Behavioral
Disorders
Degree conferred May 2020
Advisor: Dr. Antonis Katsiyannis
Simone was the recipient of the 2020 Carl Fenichel Dissertation Research Award. She has accepted
a faculty position at Southern Wesleyan University.

Friggita Johnson..... Central, SC
M.R.Sc., Bharathidasan University; Postgraduate, Annamalai University and Indian
Institute of Management and Technical Education
Dissertation: Using Incremental Rehearsal for Subtraction Fact Fluency Among
Elementary Students with Mathematics Difficulties
Degree conferred August 2020
Advisor: Dr. Pamela Stecker
Friggita has two peer-reviewed publications. She was a College of Education finalist in Clemson’s
Three Minute Thesis competition in 2019. She is currently an assistant professor of education at
Claflin University.

Kristina Nicole Randall Liberty, SC
B.A., Grand Valley State University; M.Ed., University of Michigan
Dissertation: Effects of Self-Monitoring on the Self-Determination of Students with
Intellectual and Developmental Disabilities in a Post-Secondary Educational Setting
Degree conferred August 2020
Advisor: Dr. Joseph Ryan
Tina has nine peer-reviewed publications, was awarded the College of Education’s Excellence in
Teaching Award in 2019, and is currently an assistant professor of special education at University of
South Carolina Upstate.

Jill Chandler Shelnut..... Clemson, SC
B.A., M.Ed., Clemson University
Dissertation: Effects of a Small-Group Vocabulary Intervention With and Without
Extended Instruction on Word Learning Skills of At-Risk Kindergarten Students
Degree conferred August 2020
Advisor: Dr. Janie Hodge
Jill was nominated for the College of Education’s Excellence in Teaching Award. She will continue
serving as lecturer in the Department of Teaching and Learning where she plans to extend her
research on critical issues in early childhood education.

COLLEGE OF ENGINEERING, COMPUTING AND APPLIED SCIENCES

DOCTOR OF PHILOSOPHY

Automotive Engineering

Andinet Negash Hunde..... Clemson, SC
B.Sc., M.Sc., Addis Ababa University
Dissertation: Multi Sensor Multi Target Perception and Tracking for Informed Decisions in
Public Road Scenarios
Degree conferred August 2020
Advisor: Dr. Yunyi Jia

Rakesh Krishnamoorthy Iyer..... Bhopal, India
B.Tech., M.Tech., Indian Institute of Technology
Dissertation: Thermoelectrics: Ecological Profile and Fundamental Principles for
Sustainability
Degree conferred August 2020
Advisor: Dr. Srikanth Pilla

Matthew Charles Krugh Pittsburgh, PA
B.S., Pennsylvania State University; M.S., Clemson University
Dissertation: Evaluation of Product Quality Through Technologically Augmented Workers
in Industry 4.0 Assembly
Degree conferred August 2020
Advisor: Dr. Laine Mears

James Scott Sternberg Travelers Rest, SC
B.S., Furman University; M.S., University of Florida; M.T.S., John Paul II Institute,
Catholic University of America
Dissertation: Green Synthetic Routes to High Performance Polymers from Lignin:
Upcycled Materials Designed for Recycling
Degree conferred August 2020
Advisor: Dr. Srikanth Pilla
James has two peer reviewed publications leading to two patent applications. He is currently a
postdoctoral fellow at the Clemson Composites Center.

Bioengineering

- Nathan Tyler Carrington Milan, TN
B.S., Mississippi State University
Dissertation: Design and Development of a Strain-Sensing Sliding Hip Screw for the Treatment of Intertrochanteric Hip Fracture
Degree conferred August 2020
Advisors: Dr. John DesJardins and Dr. Jeffrey Anker
- Cody Levi Dunton Seneca, SC
B.S., Clemson University
Dissertation: An *In Vitro* Mechanobiological Investigation on Urothelial Cell Function Affected by Bladder Outlet Obstruction
Degree conferred August 2020
Advisor: Dr. Jiro Nagatomi
- Nardine Michael GhobrialSimpsonville, SC
B.S., M.S., Clemson University
Dissertation: Using Heparin-Coated Nanoparticles in the Treatment of Neointimal Hyperplasia
Degree conferred August 2020
Advisor: Dr. Delphine Dean
- Xinyue Lucy LuJilin, China
B.S., Donghua University; M.S., North Carolina State University; M.S., Clemson University
Dissertation: Experimental Characterization and Biological Assessments of Polymeric Mesh Implants
Degree conferred August 2020
Advisor: Dr. Melinda Harman
- Christian Parker MacksDuncan, SC
B.S., Clemson University
Dissertation: Combinatorial Therapy of Rolipram and RhoA siRNA by Multifunctional Polymeric Nanocarrier for Traumatic Brain Injury
Degree conferred August 2020
Advisor: Dr. Jeoung Soo Lee
Christian has five peer-reviewed publications and was awarded the Page Morton Hunter Bioengineering Graduate Researcher Award in 2018.
- Stephanie Marie Smith Victor, NY
B.S., Binghamton University
Dissertation: Compliance, Hardness, and Fretting Corrosion in Modular Taper Junctions: The Micromechanics of Contact
Degree conferred May 2020
Advisor: Dr. Jeremy Gilbert

Xiaoying Wang Loudi, China
B.S., Chongqing University
Dissertation: Diagnosis, Rupture Risk Evaluation and Therapeutic Intervention of
Abdominal Aortic Aneurysms Using Targeted Nanoparticles
Degree conferred August 2020
Advisor: Dr. Naren Vyavahare

Biomedical Data Science and Informatics

Benafsh Nadir Husain Mumbai, India
B.S., University of Mumbai; M.S., California Polytechnical State University
Dissertation: EdgeCrafting: Mining Embedded, Latent, Non-Linear Patterns to Construct
Gene Relationship Networks
Degree conferred May 2020
Advisor: Dr. Frank Feltus

Ehsan Sadrfaridpour Tehran, Iran
B.Sc., Islamic Azad University; M.S., Clemson University
Dissertation: Fast Machine Learning Algorithms for Massive Datasets with Applications in
the Biomedical Domain
Degree conferred August 2020
Advisor: Dr. Ilya Safro
Ehsan has three peer-reviewed publications and currently works as a data scientist at Lowe's
Companies, Inc.

Chemical Engineering

Apoorva Balwani Kota, India
M.Tech., Indian Institute of Technology
Dissertation: Impact of Nanoparticle-Polymer Interactions on the Segmental Dynamics and
Transport Characteristics in Ionomer Nanocomposite Membranes
Degree conferred May 2020
Advisor: Dr. Eric Davis

Allison Brooks Domhoff Harmony, PA
B.S., Duquesne University
Dissertation: Tuning Transport in Ionomer Nanocomposites via Nanoparticle Surface
Functionalization
Degree conferred May 2020
Advisor: Dr. Eric Davis
Allison was awarded the NSF Graduate Research Fellowship in 2016 and the Hitachi High
Technologies Electron Microscopy Graduate Fellowship in 2019. She has five peer-reviewed
publications and is currently a research chemist at PPG.

Jaime Andres Idarraga-Mora Cali, Colombia
B.S., Universidad del Valle
Dissertation: Mechanical Properties of Thin-Film Composite Membranes and Their Role
in Osmotic Processes
Degree conferred May 2020
Advisor: Dr. Scott Husson

Civil Engineering

Zheng DongAnhui, China

B.S., Hefei University of Technology

Dissertation: Macro-Cell Corrosion of Reinforcing Steel in Concrete Under Chloride Laden Environment

Degree conferred August 2020

Advisor: Dr. Amir Poursaee

Afshin FamiliClemson, SC

B.S., Shahrood University of Technology; M.S., University of Semnan

Dissertation: Pavement Surface Evaluation Using Mobile Terrestrial LiDAR Scanning Systems

Degree conferred August 2020

Advisor: Dr. Wayne Sarasua

Harish Konduru.....Nellore, India

B.S., Anna University-Chennai

Dissertation: Characterization and Use of Acid Treated Rice Husk Ash (RHA) in Cement Matrices

Degree conferred August 2020

Advisor: Dr. Prasad Rangaraju

Harish has one peer-reviewed publication and has presented at several international conferences. He was named Outstanding Graduate Research Assistant in 2019 and plans to return to academia in the future.

HariPriya NekkantiClemson, SC

B.E., Anna University; M.S., Cardiff University

Dissertation: Influence of Selected Supplementary Cementitious Materials on Properties of 3D Printable Cementitious Mixture for Application in Additive Manufacturing

Degree conferred May 2020

Advisor: Dr. Prasad Rangaraju

Zoraya Roldán RockowClemson, SC

B.S., M.S., Clemson University

Dissertation: Qualitative & Quantitative Analyses of Existing Buildings' Adaptability

Degree conferred August 2020

Advisor: Dr. Brandon Ross

Zoraya continues her work as lecturer at Clemson University and as a senior project manager consultant in the industry.

Amir Safiey.....Tehran, Iran

B.S., Shahid Beheshti University; M.S., Iran University of Science and Technology

Dissertation: Performance-Based Seismic Loss Estimation of Buildings

Degree conferred August 2020

Advisor: Dr. Weichiang Pang

Michael Wallace StonerAiken, SC

B.S., M.S., Clemson University

Dissertation: Performance of Cross-Laminated Timber as a Residential Building Material Subject to Tornado Events

Degree conferred May 2020

Advisor: Dr. Weichiang Pang

Computer Engineering

William Thomas KolodzeyLandenberg, PA

B.S.E., University of Michigan

Dissertation: Flexible Congestion Management for Error Reduction in Wireless Sensor Networks

Degree conferred May 2020

Advisor: Dr. Daniel Noneaker

Jonathan Gardner Oakley..... Woodruff, SC

B.S., Clemson University

Dissertation: Traffic Analysis Resistant Infrastructure

Degree conferred August 2020

Advisor: Dr. Richard Brooks

Surya Sharma..... Mumbai, India

B.E., Mumbai University; M.S., Clemson University

Dissertation: Detecting Periods of Eating in Everyday Life by Tracking Wrist Motion – What is a Meal?

Degree conferred August 2020

Advisor: Dr. Adam Hoover

Surya has four peer-reviewed publications and received two awards for service to Clemson University. He plans to work in the machine learning and healthcare industry.

Xiaonan Zhang..... Clemson, SC

B.S., Beijing University of Chemical Technology; M.S., Binghamton University

Dissertation: Enable Reliable and Secure Data Transmission in Resource-Constrained Emerging Networks

Degree conferred August 2020

Advisor: Dr. Linke Guo

Xiaonan has nine peer-reviewed publications and has accepted a faculty position at Florida State University.

Computer Science

Hongda Li Liuzhou, China

M.S., Clemson University

Dissertation: ProSec: Enabling Programmable Security in Software-Defined Infrastructure

Degree conferred August 2020

Advisor: Dr. Hongxin Hu

Ruslan Shaydulin Moscow, Russia

B.S., Moscow Institute of Physics and Technology; M.S., Clemson University

Dissertation: Quantum and Classical Multilevel Algorithms for (Hyper)Graphs

Degree conferred August 2020

Advisor: Dr. Ilya Safro

Justin George Sybrandt.....Malvern, PA

B.S., Grove City College

Dissertation: Exploiting Latent Features of Text and Graphs

Degree conferred May 2020

Advisor: Dr. Ilya Safro

Pengfei Zou Linshui, China
B.S., Wuhan University; M.S., University of the Chinese Academy of Sciences
Dissertation: Power Bounded Computing on Current and Emerging HPC Systems
Degree conferred May 2020
Advisor: Dr. Rong Ge

Electrical Engineering

Vikas Bollapragada Subrahma Kothagudem, India
B.Tech., National Institute of Technology; M.S., Clemson University
Dissertation: A Channel-Access Framework for Scheduling Transmission Assignments in
Ad Hoc Networks with Rate Adaptive Radios
Degree conferred August 2020
Advisor: Dr. Harlan Russell

Kaitlyn Sara Morgan Cincinnati, OH
B.S., Clemson University
Dissertation: A Study on the Dynamic Manipulation of Structured Light Using Orbital
Angular Momentum for Wireless Underwater Links
Degree conferred August 2020
Advisor: Dr. Eric Johnson

Fatemeh Tooryan Babol, Iran
B.Sc., Mazandaran University; M.Sc., K. N. Toosi University of Technology
Dissertation: A Techno-Economical Optimization of Distributed Generators in
Distribution Networks
Degree conferred May 2020
Advisor: Dr. Edward Collins
Fatemeh has 11 peer-reviewed publications and has accepted a senior engineer position in the power industry.

Divya Tejaswini Vedullapalli Kakinada, India
B.Tech., National Institute of Technology; M.Tech., Indian Institute of Technology
Dissertation: Power Management System in a Building with Battery and HVAC Scheduling
for Demand Response Applications
Degree conferred August 2020
Advisor: Dr. Ramtin Hadidi

Zhenqian Wang Renqiu, China
B.S., M.S., Tianjin University
Dissertation: Attack Resilient Pulse Based Synchronization
Degree conferred August 2020
Advisor: Dr. Yongqiang Wang

Qi Zhang Luohe, China
B.S., University of Electronic Science and Technology of China
Dissertation: Integrated Additive and Subtractive Manufacturing of Glass Photonic
Sensors for Harsh Environment Applications
Degree conferred May 2020
Advisor: Dr. Hai Xiao

Engineering and Science Education

Katherine Marie Ehlert.....South Lyon, MI

B.S., Case Western Reserve University; M.S., Cornell University

Dissertation: Student Perceptions of Learning in Co-operative Education Experiences: An Embedded Mixed Methods Study

Degree conferred August 2020

Advisor: Dr. Marisa Orr

Katherine earned a dissertation research fellowship from the American Society for Engineering Education, has four journal publications, and was named one of her department's Outstanding Graduate Researchers in 2020. She currently teaches engineering at Clemson University.

Dennis Michael LeeMadison, WI

B.A., M.S., University of Wisconsin, Madison

Dissertation: Argument as a Context to Understand Students' Biology Epistemology

Degree conferred May 2020

Advisors: Dr. Lisa Benson and Dr. Dylan Dittrich-Reed

Paran Rebekah NortonGainesville, GA

B.S., University of North Georgia; M.S., Clemson University

Dissertation: Exploring the Relationship Between Course Structures and Student

Motivation in Introductory College Calculus: A Self-Determination Theory Perspective

Degree conferred May 2020

Advisors: Dr. Karen High and Dr. William Bridges

Paran is currently a faculty member in the School of Mathematical and Statistical Sciences at Clemson, serving as a lecturer and academic coordinator for Statistical Methods I.

Khushikumari J. Patel-DesaiCentral, SC

B.S., Millsaps College; M.S., Tennessee State University

Dissertation: Student Conceptualization of Stoichiometry

Degree conferred May 2020

Advisor: Dr. Eliza Gallagher

Victoria Beth SellersLake Waccamaw, NC

B.S., East Carolina University

Dissertation: Assessment of Affective Responses to Classroom, Outdoor, and Virtual

Geology Field Experiences

Degree conferred May 2020

Advisors: Dr. Lisa Benson and Dr. Stephen Moysey

Shannon Kristine Stefl.....Mentor, OH

B.S., Kent State University; M.S., Clemson University

Dissertation: Women Engineering Faculty Well-being: An Interpretative Phenomenological Analysis

Degree conferred May 2020

Advisors: Dr. Julie Martin and Dr. Karen High

Environmental Engineering and Earth Sciences

Sheikh Moniruzzaman Moni..... Dhaka, Bangladesh

M.B.A., I.B.A., University of Dhaka; M.S., Oklahoma State University

Dissertation: A Framework for Life Cycle Assessment (LCA) of Emerging Technologies at Low Technology Readiness Levels

Degree conferred May 2020

Advisors: Dr. Michael Carbajales-Dale and Dr. Karen High

Sheikh currently works as senior engineer in KeyLogic Systems supporting the carbon utilization program in the National Energy Technology Laboratory, U.S. Department of Energy.

Kathryn Margaret Peruski..... Scarsdale, NY

B.S., University of Notre Dame

Dissertation: Dissolution of Neptunium Dioxide and Transport of Aqueous and Colloidal Neptunium in the Vadose Zone

Degree conferred May 2020

Advisor: Dr. Brian Powell

John Gregory Sherwood Hoffman Estates, IL

B.S.E., Calvin College

Dissertation: Building a Strategy for Key Energy Transitions: Modeling Biophysical Economics

Degree conferred August 2020

Advisor: Dr. Michael Carbajales-Dale

Xiaolu Zhang..... Yantai, China

B.S., Tongji University; M.S., Shanghai Jiaotong University

Dissertation: Impact of Biological Wastewater Treatment on the Reactivity of N-Nitrosodimethylamine (NDMA) Precursors

Degree conferred August 2020

Advisor: Dr. Tanju Karanfil

Human Centered Computing

Cazembe Kennedy Bowie, MD

B.S., Morehouse College

Dissertation: An Exploration of Student Reasoning About Undergraduate Computer Science Concepts: An Active Learning Technique to Address Misconceptions

Degree conferred May 2020

Advisor: Dr. Eileen Kraemer

Cazembe has three international peer-reviewed publications and an authored book chapter on computing education research. He is a STEM Teaching Consultant and Honors College lecturer at Clemson University pursuing a career in science policy focusing on diversity and inclusion.

Yifang Li..... Yantai, China

B.A., Jiangnan University; M.I.D., Georgia Institute of Technology

Dissertation: Investigating Obfuscation as a Tool to Enhance Photo Privacy on Social Networks Sites

Degree conferred August 2020

Advisor: Dr. Kelly Caine

Industrial Engineering

Abdelwahab B. Ali Alwahishie Benghazi, Libya

B.S., University of Benghazi; M.S., Clemson University

Dissertation: Considering Disaster Volunteer Behavior and the Work Environment in
Managerial Decision Making

Degree conferred May 2020

Advisor: Dr. Kevin Taaffe

Abdelwahab has one peer-reviewed publication and has worked as a consultant in the aviation industry since 2017.

Farhad Hasankhani Kohneh Shahri..... Clemson, SC

B.Sc., Sharif University of Technology

Dissertation: Analysis of Allocation Rules for Heart Transplantation

Degree conferred August 2020

Advisor: Dr. Amin Khademi

Farhad received the Department of Industrial Engineering's Graduate Student Development award in 2019. He works as an operations research analyst at Norfolk Southern Corporation.

Katherina Ann Jurewicz..... Tega Cay, SC

B.S., M.S., Clemson University

Dissertation: Using a Bayesian Framework to Develop 3D Gestural Input Systems Based on
Expertise and Exposure in Anesthesia

Degree conferred May 2020

Advisor: Dr. David Neyens

Mahsa Kiani Clemson, SC

B.S., Amirkabir University of Technology; M.S., West Virginia University

Dissertation: Essays on Tactical and Operational Problems in Healthcare

Degree conferred August 2020

Advisor: Dr. Tuğçe Işık

Dahui Kevin Liu Shanghai, China

B.S., Shanghai Maritime University

Dissertation: Optimizing Energy Savings for a Fleet of Commercial Autonomous Vehicles
via Centralized and Decentralized Platooning Decisions

Degree conferred August 2020

Advisor: Dr. Amin Khademi

Kevin has three peer-reviewed publications in the area of connected and autonomous vehicles platooning. He is currently a postdoctoral fellow at University of Arkansas and plans to continue working in academia.

Shraddha Narasimha Bengaluru, India

B.E., Visvesvaraya Technological University; M.S., Clemson University

Dissertation: Forming Impressions on Computer-Mediated Healthcare Peer-Support
Systems for Informal Caregivers

Degree conferred August 2020

Advisors: Dr. Anand Gramopadhye and Dr. Kapil Chalil Madathil

Shraddha has five published, first-author, peer-reviewed journal articles and several conference proceedings. She received the Best Student Paper award for her research at an international conference, and received the Outstanding Graduate Student and Outstanding Teaching Assistant awards at the University level. She now works at Google as a UX Researcher.

Materials Science and Engineering

Milad Azami Ghadkolai..... Clemson, SC

B.S., Amirkabir University of Technology; M.S., Sharif University of Technology
Dissertation: Engineered Porous Electrodes for High Performance Li-Ion Batteries
Degree conferred May 2020
Advisors: Dr. Rajendra Bordia and Dr. Stephen Creager
Milad has four peer-reviewed publications and received the Bishop Fellowship in 2019. He plans to pursue a career in the battery manufacturing industry.

Thomas Wade Hawkins..... Clemson, SC

B.S., M.S., Clemson University
Dissertation: The Materials Science and Engineering of Advanced YB-Doped Glasses and Fibers for High-Power Lasers
Degree conferred May 2020
Advisor: Dr. Liang Dong

Matthew Artus Tuggle Charleston, SC

B.S., Clemson University
Dissertation: Material Properties of Anderson Localizing Optical Fiber
Degree conferred May 2020
Advisor: Dr. John Ballato

Zhao Zhang Xinxiang, China

B.E., Shandong University
Dissertation: Dip-Coating Methodology for Making Ceramics Composite Coatings: Fundamentals and Applications
Degree conferred May 2020
Advisors: Dr. Fei Peng and Dr. Konstantin Kornev

Mechanical Engineering

Mengjie Ding Clemson, SC

B.S., University of Science and Technology of China
Dissertation: Multi-point Monin–Obukhov Similarity Theory in the Convective Atmospheric Surface Layer Using Matched Asymptotic Expansions
Degree conferred August 2020
Advisor: Dr. Chenning Tong

Vitaliy Fedonyuk Lexington, SC

B.S., Clemson University
Dissertation: Dynamics and Control of Nonholonomic Systems with Internal Degrees of Freedom
Degree conferred May 2020
Advisor: Dr. Phanindra Tallapragada

Shubhamkar Sanjay Kulkarni..... Kalyan, India

B.E., University of Mumbai; M.S., Clemson University
Dissertation: A Model for Simulation of Convective Heat Assisted Single Point Incremental Forming of Thermoplastics
Degree conferred May 2020
Advisor: Dr. Gregory Mocko
Shubhamkar is currently working in the computer-aided engineering industry.

Nafiseh Masoudi Tehran, Iran
B.S., Sharif University of Technology; M.S., Clemson University
Dissertation: Geometric-Based Optimization Algorithms for Cable Routing and Branching
in Cluttered Environments
Degree conferred August 2020
Advisor: Dr. Georges Fadel
Nafiseh is currently a postdoctoral research fellow at CU-ICAR. She received the Eastman Award
for Excellence for her academic achievements as a doctoral student, along with multiple awards
from the American Society of Mechanical Engineers for her research contributions to the field
of engineering design. She has authored/coauthored five peer-reviewed papers in journals and
conference proceedings.

Beau Preston Pollard..... Rome, GA
B.S., Clemson University
Dissertation: Improving Swimming Performance and Flow Sensing by Incorporating
Passive Mechanisms
Degree conferred May 2020
Advisor: Dr. Phanindra Tallapragada
Beau has eight peer-reviewed publications, won the Eastman Award for Excellence, and is now
working at NASA Langley Research Center.

Xingchen Shao Shanghai, China
B.S., M.S., Beihang University
Dissertation: Pattern Formation and Elastocapillary Instabilities in Soft Gels
Degree conferred August 2020
Advisors: Dr. Joshua Bostwick and Dr. John Saylor

Vijay Sarthy Mysore Sreedhara Bangalore, India
B.Eng., Visvesvaraya Technological University; M.S., Clemson University
Dissertation: Modeling Energy Expenditure and Recovery in Cycling
Degree conferred May 2020
Advisor: Dr. Gregory Mocko
Vijay has two peer-reviewed publications and plans to work as a research and development engineer.

COLLEGE OF SCIENCE

DOCTOR OF PHILOSOPHY

Biochemistry and Molecular Biology

Steven Dewayne GoodsonKissimmee, FL
B.S., Queens University of Charlotte
Dissertation: Characterization of Human Homologous Recombination Through a Study of
Recombinases and Accessory Proteins
Degree conferred August 2020
Advisor: Dr. Michael Sehorn

Jun Wang Hubei, China
B.Eng., Beijing University of Technology
Dissertation: Deep Learning Models for Functional Annotation of Human Non-Coding RNAs
Degree conferred August 2020
Advisor: Dr. Liangjiang Wang

Biological Sciences

Hui Ding Zibo, China
B.S., Central South University; M.S., Peking University
Dissertation: MICA-G129R: A Bifunctional Fusion Protein Bridging Natural Killer Cells and PRLR-Positive Breast Cancer Cells
Degree conferred August 2020
Advisor: Dr. Yanzhang Wei

Andrew James Mason Chattanooga, TN
B.S., Miami University; M.S., Texas A&M University
Dissertation: Patterns and Processes of Speciation and Phenotypic Diversification in Palm-Pitvipers (Viperidae: *Bothriechis*)
Degree conferred May 2020
Advisor: Dr. Christopher Parkinson

Chemistry

Ashley Adele Dickey Pittsburgh, PA
B.S., University of Pittsburgh
Dissertation: Nano-Scintillators as Next Generation Tools for Optogenetics
Degree conferred May 2020
Advisor: Dr. Joseph Kolis
Ashley is currently an automated analytical systems specialist at Air Products and Chemicals, Inc.

Andrea Augusta Elisabeth Gaertner Fuerth, Germany
B.S., Friedrich-Alexander Universität Erlangen-Nürnberg
Dissertation: Investigating Metal-Mediated DNA Damage Prevention by Antioxidants and Examining the Role of Metals in Fluconazole-Mediated DNA Damage
Degree conferred May 2020
Advisor: Dr. Julia Brumaghim
Andrea received Outstanding Teaching Assistant Awards from the College of Science and the Graduate School in 2017.

Mariia Karabin Sambir, Ukraine
B.S., M.S., Lviv State University
Dissertation: Applying Statistical Mechanics to Improve Computational Sampling Algorithms and Interatomic Potentials
Degree conferred May 2020
Advisor: Dr. Steven Stuart

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- Khadijatul Kobra Dhaka, Bangladesh
B.S., M.S., Dhaka University
Dissertation: X-Panding Halogen Bonding Interactions: Hybrid Cocystals Composed of
Ionic Halides, Iodine and Organoiodines
Degree conferred May 2020
Advisors: Dr. William Pennington and Dr. Colin McMillen
Kobra has six peer-reviewed publications and was awarded the Mandel Fellowship in the
Department of Chemistry in 2017. She has accepted a faculty position at Hollins University,
Virginia.
- Mudithangani Thisakya Kumarasinghe Kolambage Colombo, Sri Lanka
B.Sc., University of Sri Jayewardenepura
Dissertation: Hydrothermal Crystal Growth and Characterization of Refractory Oxides
Containing 4d, 5d Transition Metal Ions and Lanthanides
Degree conferred May 2020
Advisor: Dr. Joseph Kolis
- Htoo Wai Paing.....Rangoon, Burma
B.S., Clemson University
Dissertation: Development of Solid Sampling Modalities for the Liquid-Sampling
Atmospheric Pressure Glow Discharge Microplasma
Degree conferred August 2020
Advisor: Dr. R. Kenneth Marcus
- Timmy Vannak Thiounn..... Jacksonville, FL
B.S., University of South Florida
Dissertation: Synthesis and Characterization of High Sulfur-Content Polymers with
Petrochemical and Microbial Comonomers
Degree conferred May 2020
Advisor: Dr. Rhett Smith
- Unaiza UzairLahore, Pakistan
B.S., M.S., University of Punjab
Dissertation: A pH Sensor for Non-Invasive Detection and Monitoring of pH Changes
During Implant-Associated Infection Using X-ray Excited Luminescence Chemical
Imaging
Degree conferred August 2020
Advisor; Dr. Jeffrey Anker
Unaiza authored two peer-reviewed publications and a book chapter. She was a Fulbright Scholar
and Mandal Fellow, and placed third in the Clemson University Three Minute Thesis competitions
in 2016 and 2017. She has accepted a position at the South Carolina Department of Health and
Environmental Control.
- Lei Wang Shanghai, China
B.S., Wuhan University
Dissertation: Development of Capillary-Channeled Polymer (C-CP) Fiber as Stationary
Phase for Biological Sample Application
Degree conferred May 2020
Advisor: Dr. R. Kenneth Marcus

Qiuying Zhang Nanjing, China
B.S., Nanjing University of Information Science and Technology
Dissertation: Bench-Top Electrochemical Crystal Growth: In-Situ Synthesis of Extended Solids Containing Polyoxometalate Anions
Degree conferred August 2020
Advisor: Dr. Shiou-Jyh Hwu

Wenxing Zhang.....Hefei, China
B.S., University of Science and Technology of China; M.S., Clemson University
Dissertation: Using Novel Approaches for Navigating Complex Energy Landscapes: Ion Channel Conductance Using Hyperdynamics and Human-Guided Global Optimization of Lennard-Jones Clusters
Degree conferred May 2020
Advisor: Dr. Steven Stuart

Environmental Toxicology

Melissa Marie HeintzBoyertown, PA
B.S., Saint Francis University; M.S., University of North Carolina
Dissertation: Role of CYP2B in Unsaturated Fatty Acid Metabolism, Obesity, and Non-Alcoholic Fatty Liver Disease
Degree conferred August 2020
Advisor: Dr. William Baldwin

Prabha G. Ranasinghe Kurunegala, Sri Lanka
B.S., University of Kelaniya; M.S., University of Illinois–Chicago
Dissertation: Mechanistic Basis of 2,2',3,5',6-Pentachlorobiphenyl (PCB-95) Neurotoxicity on Early Development of an Organism
Degree conferred May 2020
Advisors: Dr. Cindy Lee and Dr. Susan Chapman
Prabha has six peer-reviewed publications and has accepted a postdoctoral fellowship position at Duke University.

Mathematical Sciences

Travis Alan Baumbaugh..... Granger, IN
B.S., Rose-Hulman Institute of Technology; M.S., Clemson University
Dissertation: Codes and Sequences for Information Retrieval and Stream Ciphers
Degree conferred May 2020
Advisor: Dr. Felice Manganiello
Travis is now a cryptographer at ToposWare.

Alistair R. Bentley..... Richmond, VA
B.S., University of Calgary; M.S., University of Toronto; M.S., Clemson University
Dissertation: A Computational Framework for Axisymmetric Linear Elasticity and Parallel Iterative Solvers for Two-Phase Navier–Stokes
Degree conferred May 2020
Advisor: Dr. Vincent Ervin

Benjamin Mark Case Central, SC
B.S., Bob Jones University; M.S., Clemson University
Dissertation: Homomorphic Encryption and Cryptanalysis of Lattice Cryptography
Advisor: Dr. Shuhong Gao
Benjamin is now a research scientist at Facebook, Inc., researching in cryptography and internet technology.

Andrew Walton Green Madison, AL
B.S., University of Mobile; M.S., Clemson University
Dissertation: The Uncertainty Principle in Control Theory for Partial Differential Equations
Degree conferred May 2020
Advisors: Dr. Mishko Mitkovski and Dr. Shitao Liu
Walton received the Outstanding Graduate in Research Award in the School of Mathematical and Statistical Sciences and is currently a Chauvenet postdoctoral lecturer at Washington University in St. Louis.

Kayla D. Javier..... Fall River, MA
B.S., Bridgewater State University; M.S., Clemson University
Dissertation: A Study of Quasi-Birth-Death Processes and Markovian Bitcoin Models
Degree conferred August 2020
Advisor: Dr. Brian Fralix

Xueheng Shi..... Central, SC
B.E., Beijing University of Posts and Telecommunications; M.S., Georgia Southern University; M.S., Clemson University
Dissertation: A Survey of Changepoint Techniques for Time Series Data
Degree conferred August 2020
Advisors: Dr. Colin Gallagher and Dr. Robert Lund

Microbiology

Joseph Thomas Angeloni.....Newark, NJ
B.S., M.S., Clemson University
Dissertation: Interkingdom Communication: The Role of Cyclic Di-nucleotides, Specifically 3',5'-Cyclic Diguanylate, in Attraction and Immunomodulation of *Caenorhabditis elegans*
Degree conferred May 2020
Advisor: Dr. Min Cao

Physics

Steven James Bromley..... Norwood, PA
B.S., Millersville University; M.S., Clemson University
Dissertation: Atomic Data Needs in Laboratory Astrophysics: Experimental Methods for Spectroscopy and Charge Exchange with Ions
Degree conferred May 2020
Advisor: Dr. Joan Marler
Steve has five peer-reviewed papers and has begun a postdoctoral position at Auburn University. He will continue to collaborate with colleagues at Clemson University for projects related to his dissertation work.

Nayere Tajielyato Clemson, SC
B.S., Imam Khomeini International University; M.S., Sharif University of Technology
Dissertation: From Protein Folding to Protein Binding
Degree conferred May 2020
Advisor: Dr. Emil Alexov

Chuanchang Zeng..... Ganzhou, China
B.S., Harbin Institute of Technology
Dissertation: Topological Excitations and Anomalous Transport Phenomena in Condensed
Matter Systems
Degree conferred May 2020
Advisor: Dr. Sumanta Tewari

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 always.

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 may not be 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.

