



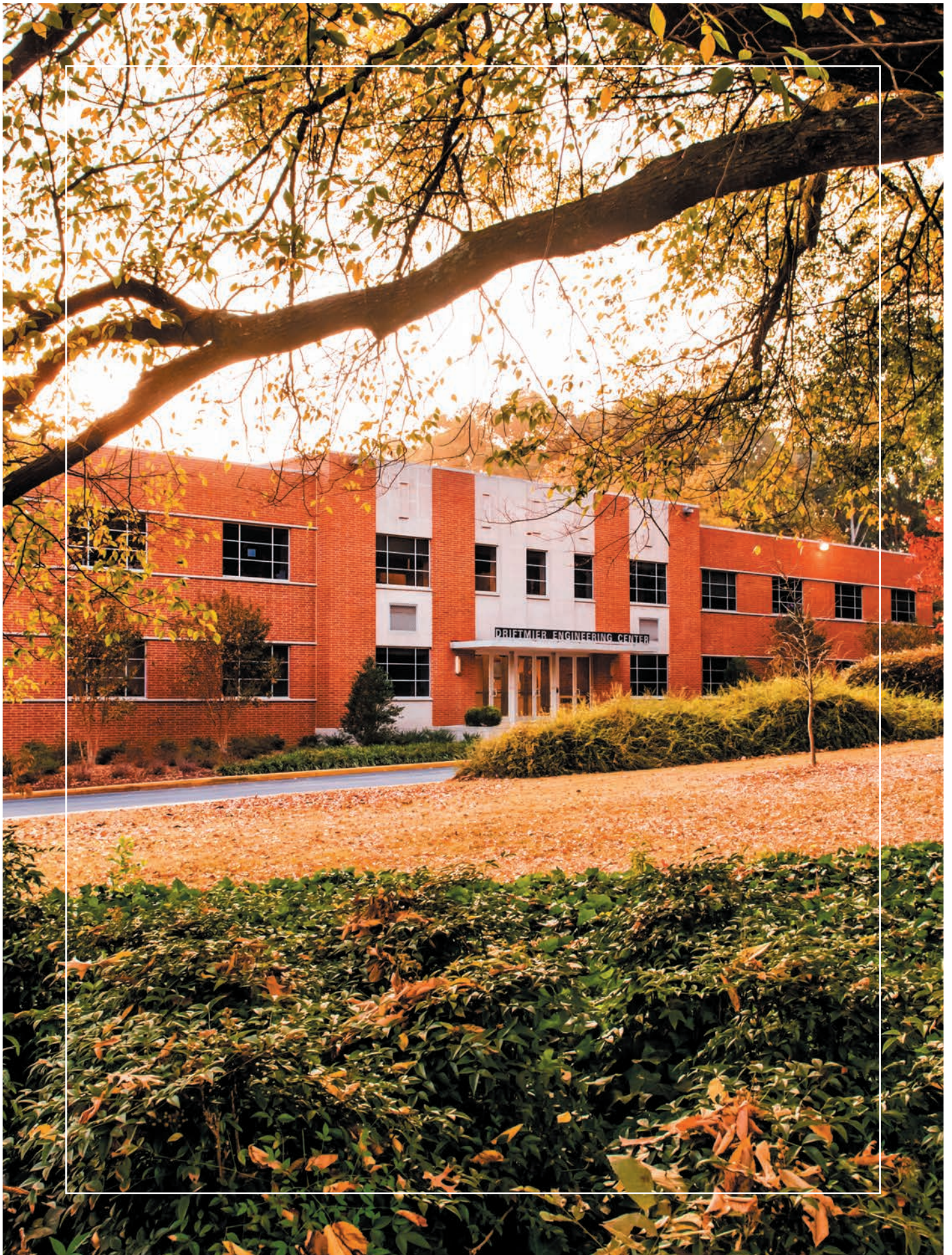
# Convocation

## Fall 2022



College of Engineering  
UNIVERSITY OF GEORGIA







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## Congratulations to the Class of 2022

On behalf of the University of Georgia College of Engineering faculty and staff, I want to extend my warmest congratulations to you, the Class of 2022. We are honored to celebrate your hard work, commitment and achievement in completing a demanding and rigorous course of study at one of the nation's best public research universities. You should be proud of your accomplishment, as should the family and friends who supported you during this journey.

While this is a time of celebration, it is also a time of reflection on what lies ahead. Whatever path you choose, I am confident you have acquired the knowledge and skills you need to succeed. The world faces unprecedented challenges and engineers will play a major role in finding creative solutions that ensure a brighter future for people around the globe. Whether you choose a career in research, the private sector, or public service, I know you will make a difference.



As you join our growing and distinguished alumni community, I encourage you to stay in touch with the college. Make every effort to attend alumni events and activities so you can share your legacy with a new generation of students. Keep this college and the people who helped you during your academic journey close to you as you venture on to your next destination. You will always have a home at the University of Georgia College of Engineering.

Good luck, best wishes, and stay in touch!

A handwritten signature in black ink, reading "Donald Fuo".

*Dean and UGA Foundation Professor in Engineering*

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## Student Convocation Speaker: Zaniyah Sealey

Zaniyah Sealey is both community- and family-oriented, always striving for something greater for herself and those around her. A Computer Systems Engineering major from Savannah, Zaniyah served as a Student Ambassador for the College of Engineering and President of UGA's chapter of the National Society of Black Engineers during her time in Athens. She's also a proud member of the Delta Sigma Theta Sorority Incorporated.

Throughout her studies, Zaniyah participated in several industry internships as she gained valuable professional experience and expanded her skillsets. Most recently, she interned as a Software Development Engineer with Ford Motor Company.





# Order of Ceremony

## WELCOME

**Jaime Camelio, Ph.D.**

*Associate Dean for Research, Innovation and Entrepreneurship and Professor*

## FACULTY PROCESSIONAL

## GREETINGS & INTRODUCTIONS

**Donald J. Leo, Ph.D.**

*Dean & UGA Foundation Professor in Engineering*

## STUDENT CONVOCATION ADDRESS

**Zaniyah Sealey**

*Bachelor of Science in Computer Systems Engineering*

## RECOGNITION OF GRADUATE DEGREE CANDIDATES

**Ramaraja P. Ramasamy, Ph.D.**

*Associate Dean for Academic Affairs & Assessment and Professor*

**Major Professors**

## RECOGNITION OF UNDERGRADUATE DEGREE CANDIDATES

**Stephan Durham, Ph.D., P.E.**

*Assistant Dean for Student Success and Outreach & Professor*

## WELL WISHES & CONCLUDING REMARKS

**Dean Leo**

## RECESSIONAL



## Doctor of Philosophy Candidates

### **Yajie Bao**

Engineering with Emphasis in Electrical & Computer  
Engineering  
Major Professor: Javad Mohammadpour, Ph.D.  
Dissertation:  
*Data-Driven Modeling and Learning-Based Control of  
Nonlinear Systems*

### **Cheng Chen**

Engineering  
Major Professor: Beshoy Morkos, Ph.D.  
Dissertation:  
*Realization of Inter-Model Connections: Linking Requirements  
and Computer-Aided Design*

### **Manjyot Kaur Chug**

Biomedical Engineering  
Major Professor: Elizabeth J. Brisbois, Ph.D.  
Dissertation:  
*Developing Antimicrobial Biomedical Device Surfaces Via  
Tunable Nitric Oxide Release and Synergy with Antifouling  
Interfaces*

### **Lei Lou**

Engineering with Emphasis in Electrical & Computer  
Engineering  
Major Professor: Zhong-Ru "Paul" Xie, Ph.D.  
Dissertation:  
*Application of Computer Simulation to the Study of  
Neurodegenerative Diseases*

### **Adurangba Victor Oje**

Engineering  
Major Professor: Nathaniel Hunsu, Ph.D.  
Dissertation:  
*Effective Instructional and Pedagogical Design Principles for  
Virtual Reality Environments in Engineering Education  
Research*

### **Sanjay Sarma Oruganti Venkata**

Engineering with Emphasis in Electrical & Computer  
Engineering  
Major Professor: Ramana M. Pidaparti, Ph.D.  
Dissertation:  
*Exploiting Knowledge Heterogeneity in Multi-Agent Systems*

### **Ryan C. Romeo**

Engineering with Emphasis in Mechanics & Materials  
Major Professors: R. Benjamin Davis, Ph.D., and  
Sung-Hee "Sonny" Kim, Ph.D., P.E.  
Dissertation:  
*Improving the Efficacy of Dynamic, Gradient-Based Falling  
Weight Deflectometer Backcalculation*

### **Baviththira Suganthan**

Biological & Agricultural Engineering  
Major Professor: Ramaraja Ramasamy, Ph.D.  
Dissertation:  
*Developing Electrochemical Methods for Detection of Bacterial  
Cells*

### **Syedehnarges Tahaei Yaghoubi**

Engineering with Emphasis in Resilient Infrastructure  
Systems  
Major Professor: Sung-Hee "Sonny" Kim, Ph.D., P.E.  
Dissertation:  
*Use of Remote Sensing and Machine Learning Techniques for  
Resilient Infrastructure Health Monitoring*

### **Mei Yang**

Engineering  
Major Professor: Mable Fok, Ph.D.  
Dissertation:  
*Bio-Inspired Soft Robot With Stretchable Fiber Optic Sensors*

### **Holly R. Yaryan Hall**

Engineering with Emphasis in Environment & Water  
Major Professor: Brian Bledsoe, Ph.D., P.E.  
Dissertation:  
*Innovative Approaches to Urban Riverscape Planning and  
Design*

*In compliance with the Family Education Rights Act, students who place a FERPA restriction on their records and did not grant permission to publish their name in the Convocation Program are not listed. Graduate students are responsible for submitting an application for graduation as well as information regarding their thesis/dissertation to be listed in the program.*



## Master of Science Degree Candidates

### **Daniel E. Agramonte**

Engineering with Emphasis in Mechanical Engineering  
Major Professor: R. Benjamin Davis, Ph.D.  
Thesis: *Experimental Characterization of Pecans (Carya  
Illinoensis) Under Impact Loading*

### **Natalie M. Doker**

Civil & Environmental Engineering with Emphasis in Civil  
Engineering  
Major Professor: Mi Geum Chorzepa, Ph.D., P.E., LEED AP  
Thesis: *Weigh-in-Motion and National Bridge Inventory Data  
Informed Bridge Monitoring*

### **Widmayer G. Dorzema**

Engineering with Emphasis in Mechanical Engineering  
Major Professor: Xianqiao "X.Q." Wang, Ph.D.  
Final Project: *Biomechanical Analysis of Running and Cutting  
on the Knee Using Ansys Software*

### **Brume Idolor**

Civil & Environmental Engineering with Emphasis in Civil  
Engineering  
Major Professor: Mi Geum Chorzepa, Ph.D., P.E., LEED AP  
Final Project: *State Departments of Transportation Review of  
Culvert Maintenance Practices*

### **Sherine Kullmann**

Civil & Environmental Engineering with Emphasis in  
Environmental Engineering  
Major Professor: Thomas Lawrence, Ph.D., P.E., LEED AP  
Thesis: *A Case Study of the Barriers Preventing Solar  
Photovoltaic Expansion and the Most Viable Locations for Solar  
in Athens-Clarke County, Georgia*

### **Jacob P. Lowder**

Engineering with Emphasis in Mechanical Engineering  
Major Professor: Xianqiao "X.Q." Wang, Ph.D.  
Final Project: *Analysis of Design Phase Transitions in a  
Manufacturing Setting*

### **Aaron F. Patrick**

Engineering  
Major Professor: Changying "Charlie" Li, Ph.D.  
Thesis: *Low-Cost Unmanned Aerial Systems in High Through-  
put Plant Phenotyping*

### **Robert D. Peel**

Engineering with Emphasis in Mechanical Engineering  
Major Professors: R. Benjamin Davis, Ph.D.  
Final Project: *History of Radiation Impedance*

### **Caleb T. Schmidt**

Biomanufacturing & Bioprocess  
Major Professor: Ramaraja Ramasamy, Ph.D.

### **Allen V. Spain**

Engineering with Emphasis in Electrical & Computer  
Engineering  
Major Professor: Changying "Charlie" Li, Ph.D.  
Final Project: *An Autonomous Tracked Field Robot for  
Real-Time Plant Detection and Tracking*

### **Rebecca E. Stanley**

Civil & Environmental Engineering with Emphasis in  
Environmental Engineering  
Major Professors: Matthew V. Bilskie, Ph.D., and  
C. Brock Woodson, Ph.D.  
Thesis: *Modeling Oyster Reef Resilience as a Form of  
Nature-Based Infrastructure in Response to Local  
Hydrodynamic Conditions*

### **Gang Su**

Civil & Environmental Engineering with Emphasis in Civil  
Engineering  
Major Professor: Jidong Yang, Ph.D.  
Thesis: *Traffic Signal Control Via Trustworthy Reinforcement  
Learning*

### **Vaishnavi S. Thesma**

Engineering with Emphasis in Electrical & Computer  
Engineering  
Major Professor: Javad Mohammadpour, Ph.D.  
Thesis: *Modern Computer Vision Applications for Plant  
Phenotyping in Agriculture*



# Bachelor of Science Candidates

## School of Chemical, Materials and Biomedical Engineering

### BACHELOR OF SCIENCE IN BIOCHEMICAL ENGINEERING

Natalie L. Belcher  
*Cum Laude*

Omar Ramos

### BACHELOR OF SCIENCE IN BIOLOGICAL ENGINEERING

Sebastian Arellano Esparanza  
Cydney A. Barnes

Isabel V. Martinez  
*Magna Cum Laude*

Christopher M. Sprung  
*Magna Cum Laude*

## School of Electrical and Computer Engineering

### BACHELOR OF SCIENCE IN COMPUTER SYSTEMS ENGINEERING

Michael T. Gilmam  
Clayton R. Hunter  
*Magna Cum Laude*

Zaniyah V. Sealey  
Jaelin P. Stovall

Takaya Suzuki  
*Magna Cum Laude*

### BACHELOR OF SCIENCE IN ELECTRICAL AND ELECTRONICS ENGINEERING

Payton A. Aussin  
Samuel E. Bernal  
Sifat R. Bhuiyan  
Anthony J. Blankenship

Ashley M. Galanti  
Luis A. Godoy Orantes  
Samuel O. Oniha  
Jayvion T. Rolland

James J. Shuman  
Cole A. Sterck  
Sean P. Wilkins

## School of Environmental, Civil, Agricultural and Mechanical Engineering

### BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING

Matthew B. Bowen

Achal M. Joshi

### BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Jaquan S. Buckner  
Zhuo Chen  
Dillan J. Glass  
Justin A. Hensley  
Althea G. Kingsmill  
Samuel B. Knight  
Sophie V. Knoll  
*Magna Cum Laude*  
Noah M. Kopp  
Landon T. Marshall  
*Cum Laude*

Mitchell L. Mastin  
Carson S. Moore  
Emily D. Partridge  
Jesse L. Partridge  
Patrick M. Ryan  
Derek V. Scott  
*Cum Laude*  
Noah F. Seethaler  
Adrian Terrazas-Vicencio  
Paola S. Valdivia

Parker F. Warneke  
*Magna Cum Laude*  
Skylar T. Willard  
*Cum Laude*  
Luke C. Woody  
Kenneth A. Zeestraten  
Benny Zhang

### BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING

Rayan A. Albalwi  
*Magna Cum Laude*  
Yaniv Bash  
*Summa Cum Laude*

Alexandra C. Betz  
Jared H. Brener  
Joy E. Chapman  
*Magna Cum Laude*

George M. Hardin  
*Cum Laude*  
Kenneth L. Sanchez



## Bachelor of Science Candidates

### BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Carson M. Adams  
*Summa Cum Laude, Tau Beta Gamma*  
Brandon C. Barker  
*Cum Laude*  
Noah W. Bartoo  
David J. Beasley  
Adam S. Blankenbecler  
*Cum Laude*  
Tyler M. Bready  
Zachary K. Cassidy  
Mary C. Clark  
Jordan A. Crook  
Lauren M. Danco  
*Magna Cum Laude*  
Ethan L. Danner  
Garrett M. Ford  
Christian I. Garcia-Ponce  
*Tau Beta Gamma*  
Michael L. Glasgow

Ethan L. Grizzle  
Justin B. Hetzler  
Christopher A. Huffaker  
William H. Huffaker  
Justin R. Jackson  
Tanmay Kar  
Cody M. Langston  
*Summa Cum Laude, First Honor Graduate,  
Tau Beta Gamma*  
Nathan Y. Lim  
*Cum Laude*  
Noah T. Lowe  
Reese T. Macdonald  
Gumaro J. Martinez  
Robert C. McCool  
Krishan H. Mistry  
Michael D. Morgan  
*Magna Cum Laude*

Brian T. Nelson  
*Magna Cum Laude*  
Michael G. O'Neal  
Bowen T. O'Steen  
*Magna Cum Laude*  
Marie R. Perivier  
*Magna Cum Laude, Tau Beta Gamma*  
Christina N. Pio  
Mckenzie N. Reed  
Luke J. Rigby  
Paten K. Sanders  
Jessica L. Still  
Gareth A. Thompson  
David A. Valencia  
Steven P. Vickers  
Joseph A. Watkins  
Nicolai L. Waycaster  
Andrew T. Wilson





## Graduation Distinctions

### DEGREES WITH HONORS

Summa cum laude: 3.90 overall GPA | Magna cum laude: 3.75 overall GPA | Cum laude: 3.60 overall GPA

### FIRST HONOR GRADUATE

Each student completing a baccalaureate degree with an overall grade point average of 4.0 will be designated a First Honor Graduate. The overall grade point average includes all work attempted at the University of Georgia as well as all college-level transfer work attempted prior to or subsequent to matriculation at the University.

### TAU BETA GAMMA

Denotes a member of the Tau Beta Gamma Engineering Honors Society



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