

ABE UPDATE

SPRING 2021



UF UNIVERSITY of
FLORIDA
AGRICULTURAL
AND BIOLOGICAL
ENGINEERING

Spring 2021

UF/IFAS Agricultural and
Biological Engineering
Department

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TABLE OF CONTENTS

Featured Stories

PATHFINDER FELLOWSHIPS	4
ISAACS SCHOLARSHIP ENDOWMENT	7
DISTINGUISHED ACHIEVEMENT, SERVICE, AND ALUMNI AWARDS	8
ABE BY THE NUMBERS	13

Awards and News

AWARDS AND ACCOMPLISHMENTS	14
DEPARTMENT NEWS	14

Graduating Students

DOCTORAL DEGREES	14
BACHELOR'S DEGREES	15

NOW HIRING

Assistant/Associate Professor in Artificial
Intelligence for Agricultural Robotics and
Smart Agriculture

Assistant/Associate Professor in
Biosensors and Artificial Intelligence

Assistant Professor in Phenomics for Plant
Breeding Application

Assistant/Associate Professor in Precision
Agriculture in Specialty Crops

Visit abe.ufl.edu/available-positions
for more information and to apply

Dear ABE friends,

This issue of the Agricultural and Biological Engineering (ABE) newsletter is dedicated to those who continue to serve the discipline and use their knowledge and opportunity to support others. Service to ABE and the discipline takes many different forms and can be seen in the contributions of current students, past students and friends, and retired/emeritus department members.

This issue highlights future leaders in the discipline with a spotlight on some of our fellowship-supported graduate students. The ABE department's graduate program was recently ranked No. 3 by U.S. News & World Report in national rankings that include both private and public institutions. Our students are one of the reasons for this ranking. ABE currently is home to 80 graduate students. These students are supported by a variety of funding including the U.S. Department of Defense, NASA, National Science Foundation, USAID, and USDA.

We also highlight our 2021 ABE awardees who exemplify the values of ABE with our Distinguished Achievement, Service, and Alumni Awards. Our recipients this year include Brian Roy, Dr. George Vellidis, Mike Ferrari, Jason Strenth, Dr. Erin Webb, and Marcos Montes De Oca. All are outstanding contributors to the discipline and the department. I am delighted by the variety of specializations in the 2021 awardees - this diversity showcases the ability of ABE graduates and friends to successfully contribute to society. The group's expertise includes agricultural construction, precision agriculture and engineering, package and print coaching, overseeing Florida's NRCS program, biomass conversion to biofuels, and city administration. Wow! This is an impressive group of awardees. Please be sure to read their full stories in this issue. And, reach out and congratulate them on this recognition.

Another example of how people contribute to ABE and create legacies in the department can be seen in Dr. Gerry Isaacs. Dr. Isaacs was chair of the ABE department from 1981 to 1991. During this time, he provided leadership and vision for the department. Dr. Isaacs recently identified another way to support ABE. He established a generous scholarship fund for undergraduate students in ABE named Gerald W. and Phyllis J. Isaacs Scholarship. We are excited to have this scholarship fund to support the success of our students.

Go Gators!

Kati Migliaccio

Chair and Professor



KATI MIGLIACCIO, PH.D.
CHAIR AND PROFESSOR

[@hydroKati](#)

#3

*Graduate Biological/
Agricultural Engineering
Program by U.S. News and
World Report*

Pathfinder Fellowships

ABE Pathfinder Fellowships were established to inspire novel and new research directions for the ABE department; encourage new faculty partnerships, mentorship and engagement among professors, associate professors, and assistant professors; create new funding opportunities for Ph.D. students; create and expand research collaboration with University of Florida research centers and institutes; and encourage ABE faculty to proactively recruit and commit to preeminent Ph.D. candidates.



Kim Hafner
PH.D. PROGRAM

Specialization: Packaging
Committee Chair: Dr. Bruce Welt

Research Focus

My research studies the behavior of dry ice in cold chain shipping, specially focusing on the factors that contribute to differences in dry ice performance.

Currently, specifications for use of dry ice are limited to total weight. However, the quality of dry ice, or the rate at which it sublimates, likely depends on dry ice geometry, density, age, and environmental factors.

Why ABE?

The ABE department creates many opportunities to build connections with other students and facilitates networking with advisory board members. The professional development seminars by the ABE Graduate Student Organization provided useful tools for building my personal brand, and they served as a personal reminder to reflect and document the skills, knowledge, and experience that I have gained or need to gain, both formally and informally.

What's next?

I hope to work in research and packaging development for a clean food, beverage, or personal care company.

Photo Captions (pg. 4-6): 1. Kim Hafner was a member of the winning team in the Great Minds in STEM (GMiS) College Bowl in 2019. | 2. Woi Sok Oh presents at the American Geophysical Union (AGU)'s 2017 Fall Meeting in New Orleans. | 3. Lory Willard, Dr. Cheryl Palm, and Ruth Kinuthia test modified Philip-Dunne permeameters, which measure saturated hydraulic conductivity, before beginning field visits. | 4. Patrick Zheng with Leonardo A. Villalón, Dean of the International Center, at UF International Center Award ceremony. | 5. Xue Zhou with her research team conducting field tests for an autonomous strawberry imaging robot.



Woi Sok Oh

PH.D. PROGRAM

Specialization: Land and Water Resources Engineering

Committee Chair/Co-chair: Dr. Rachata Munepeerakul

Research Focus

My research interests include coupling social, environmental, infrastructural, and institutional dynamics to understand human-natural interactions, developing a new integrated theory on human migration and environmental changes, and analyzing multiple outcomes and their tradeoffs in building system sustainability.

What inspired you?

I was very resistant to learn social science studies in my undergraduate years. Those studies seemed to be “unrelated” to an engineering student. However, I found that social science and engineering should not be disconnected once I was exposed to my field. It was very intriguing to explore complex interactions and interpret unexpected findings. Interdisciplinary systems inspired me greatly to study more in graduate school at the University of Florida.

What’s next?

I really enjoy unraveling knowledge gaps in the field of coupled natural-human systems. I hope to continue research in academia to better understand how humans and nature shape emergent behaviors. My studies will improve human wellbeing against natural disasters or climate changes. I will also be pursuing postdoctoral research at Princeton University.



Lory Willard

PH.D. PROGRAM

Specialization: Land and Water Resources Engineering

Committee Chair/Co-chair: Dr. Rafael Muñoz-Carpena and Dr. Cheryl Palm

Research Focus

As the world population increases, agricultural production must increase to meet demand, particularly in food-insecure regions. In contrast to other methods of increasing food production, sustainable agricultural intensification (SAI) aims to produce more food per unit of land while preserving important ecosystem services and providing resilience to system shocks and stresses. This research seeks to answer how SAI practices, and specifically conservation tillage and increased water use efficiency, impact ecosystems at the watershed scale.

Why ABE?

The ABE department has prepared me for a career in both research and professional aspects. My advisors and committee members have been critical in helping me develop research skills. The courses offered, especially those in the biological modeling certificate program, teach skills that are highly sought after for model design and development.

What’s next?

I hope to continue working on water issues in urban and agricultural settings either in academia or a government position.



Yulin "Patrick" Zheng
PH.D. PROGRAM

Specialization: Nanotechnology
Committee Chair/Co-chair: Dr. Bin Gao and Dr. Zhaohui Tong

Research Focus

I was supported with resources to focus my research on developing a new sustainable technique to reclaim phosphorous (P) from wastewater and recover P as fertilizer. P is an important nutrient element in fertilizer, which is a non-renewable resource and the geological P reserves may well soon be depleted in the coming decades. P fertilizer also tends to easily release in natural bodies of water, which cause eutrophication and formation of algae blooming and red tides. These phenomena trigger the release of environmental toxins that significantly threaten surface water quality, increase public health hazards and compromise commercial fisheries. I have developed engineered biochar to sustainably remove P from various waste streams and recover P as valuable agricultural resources.

Why ABE?

I found that ABE is a great place not only because of its academic reputation but also because of its friendly environment to support me on career development, professional mentoring, teaching, and encouraging others to pursue their long-term goals. ABE provided enormous support and opportunities for my own personal development as a mature and professional specialist.



Xue Zhou
PH.D. PROGRAM

Specialization: Precision Agriculture
Committee Chair/Co-chair: Dr. Yiannis Ampatzidis and Dr. Won Suk "Daniel" Lee

Research Focus

In this research, the strawberry grading system includes four functions: strawberry flower and fruit detection and strawberry maturity classification, strawberry bruise detection, strawberry shape and size recognition, and strawberry quality evaluation, all based on deep learning. This grading system can automatically and quickly differentiate different strawberry maturity stages, detect bruised areas caused by different reasons on the strawberry surface, recognize marketable and unmarketable strawberry shapes and sizes on packing line, and finally evaluate strawberry quality by combining the previous four factors (maturity, bruise, shape, and size) to make it match the U.S. strawberry quality grade standard for manufacture.

Why ABE?

The ABE department is a big family with wise and kind faculty, staff, and students. All of them are very friendly to everyone and help each other when they need. I love the ABE family. I gained good colleague-ship, friendship, and leadership here. I learned how to keep in touch with people in the same field, how to get along well with my advisors, how to keep in progress of my research, how to find fitting jobs, etc. All of those will help me get prepared for my career.



New Scholarship Endowment for Undergraduates

With a generous endowment from Professor Emeritus Gerald Isaacs, the Gerald W. and Phyllis J. Isaacs Scholarship has been established to support scholarships for undergraduate students specializing in Biological Engineering or Agricultural Operations Management.

Isaacs wanted to establish this scholarship in memory of Phyllis, his loving wife for 72 years and a devoted mother to their six children. A strong supporter of her husband’s academic career, Phyllis maintained an open home, welcoming all visitors. She was always ready for company, graciously entertaining family as well as friends, faculty and students from the U.S. and around the world.

This endowment adds to those that the department has that were funded by the emeritus faculty, alumni and other friends of the department. Memorial gifts to the scholarship funds received at the time of Phyllis’ passing have been added to the endowment.

“It is an honor to provide the scholarship to students- especially for those that might need the

additional financial support to get started or to continue in their degree program,” Isaacs said.

Isaacs served as ABE department chair at the University of Florida for 10 years from 1981 to 1991. He also served as department head for Purdue University’s Agricultural and Biological Engineering department for 17 years prior to his time at UF. His time in the ABE department saw great impacts and improvements to the future of ABE. Isaacs fondly remembers hiring outstanding new faculty to supplement the excellent existing faculty and getting approval for the doctoral program. ■



Photo Captions: Top Photos: (Left) Ryan Dao works on undergraduate research led by Dr. Ana Martin-Ryals. (Right) Sierra Nunez will graduated in May 2021 with her Agricultural Operations Management degree. | Bottom Photo: Gerald and Phyllis Isaacs



2021 Distinguished Achievement, Service, and Alumni Awards

The ABE department honors our alumni and friends who work to further enhance our discipline and industry. Please join us in congratulating our 2021 Distinguished Achievement, Service, and Alumni Award recipients. Read more about each award and honoree.

DISTINGUISHED ALUMNUS/ALUMNA AWARDS

Recipients of the Distinguished Alumnus/Alumna Award are ABE alumnus or alumna who have excelled in his or her chosen field or have performed outstanding service for the profession.

Brian Roy, P.E.

President, Royal Consulting Services, Inc.

Brian Roy is president and operating manager of Royal Consulting Services (RCS), Inc. and Enviro-Tech Systems (ETS), Inc. Through his close work with agricultural clients at Royal Consulting Services, Roy recognized a need for a streamlined process of engineers and contractors working closely together, allowing for a unique insight to the way projects were conceptualized and designed in an engineering atmosphere and then constructed in actual field conditions with precision planning. In 2004, Roy founded Enviro-Tech Systems, a licensed and bonded construction company that specializes

in agricultural construction, to address this specific need. Roy is renowned throughout the agricultural and water resources industry in Florida for utilizing innovative technologies to successfully design and construct projects that meet the needs and goals of the client, while conserving or improving important natural resources in a state with increasingly strict regulatory requirements.

Today, Roy is a Professional Engineer, Certified General Contractor, Certified Underground Utility and Excavation Contractor, and Certified Mold Remediator and Assessor in the State of Florida. Roy is also a Professional Engineer in the states of Texas, Louisiana, Georgia, North Carolina, Pennsylvania, and New York. Both RCS and ETS have expanded their services outside the borders of Florida, providing engineering and construction services throughout the Eastern United States.

Dr. George Vellidis

University Professor and Director of Academic Programs, Crop and Soil Sciences Department, University of Georgia – Tifton Campus

Dr. George Vellidis is a professor at the University of Georgia Department of Crop and Soil Science. He applies principles of engineering and the sciences to measure, model, and manage the interaction between agricultural production systems and the environment. Under this umbrella, he has developed two areas of focus – precision agriculture and water resources. He has received in excess of \$20 million in extramural funding, received one patent, licensed two technologies, and published more than 130 refereed journal articles and book chapters and over 150 conference papers. Vellidis received the University of Georgia’s D.W. Brooks Award for Excellence in Research in 2015 and the International Society for Precision Agriculture’s Pierre C. Robert Precision Agriculture Award in 2016. He was named a University Professor, a title bestowed on faculty at the University of Georgia who has had a significant impact on the university in addition to fulfilling their normal academic responsibilities, in 2020 and elected to the university’s Teaching Academy in 2021.

DISTINGUISHED ACHIEVEMENT AWARD

The ABE Distinguished Achievement Award is given to individuals with exceptional achievements in agricultural and biological engineering, for demonstrated leadership, and for other exemplary accomplishments that merit the special recognition of the department.

Mike Ferrari

Ferrari Innovation Solutions LLC

Mike Ferrari is the founder and president of Ferrari Innovation Solutions, LLC. His focus is on innovation in packaging and printing, coaching Consumer Product Companies to delight consumers and grow their brands. His purpose is to educate, guide, and inspire companies as a strategy coach, author, and educator. Ferrari is



Brian Roy, P.E. - President, Royal Consulting Services, Inc.



Dr. George Vellidis - University Professor and Director of Academic Programs, Crop and Soil Sciences Department, University of Georgia – Tifton Campus



Mike Ferrari - Ferrari Innovation Solutions LLC

a guest lecturer at the University of Florida for the Packaging Engineering program, teaching Consumer Driven Innovation Methodology. He was recruited to The Procter & Gamble Company upon graduating from the University of Florida with a Bachelor of Science Degree in Mechanical Engineering in 1978. He completed a successful 32-year career as a Global Research and Development Associate Director, including six and a half years as an international manager living in Germany. Ferrari delivered initiatives to the marketplace for some of the world's leading billion-dollar brands. He is the sole and co-inventor of several patents and winner of the prestigious 2009 and 2010 DuPont Global Packaging Innovation Award. Ferrari is now enjoying the ocean breeze and life in the Florida Keys while supporting an environmental transformation to municipal solid waste by creating an endless loop of circularity to end the practice of landfills.

DISTINGUISHED SERVICE AWARD

This award recognizes an ABE alumnus or alumna who has highly distinguished him or herself through exceptional public service to the state of Florida or the nation at large. Such public service is defined as any of the following: service in elected or appointed public office; service in



Jason Strenth, P.E. - State Conservation Engineer, USDA Natural Resources Conservation Service

public or private education at any level; service in any judicial system or law enforcement agency; service in any volunteer agency or entity devoted to any aspect of public welfare.

Jason Strenth, P.E.

State Conservation Engineer, USDA Natural Resources Conservation Service

Jason Strenth graduated from the University of Florida in 1994 with a Bachelor of Science in Agricultural Engineering. Upon graduation, Strenth started working with the USDA Natural Resources Conservation Service (NRCS) in Georgia. While in Georgia, he served as a project engineer where he assisted the Fort Benning Army Base on erosion control projects. Strenth also served as the Area Engineer for 40 counties in the Northwest part of Georgia, where he provided engineering assistance to local NRCS offices in the implementation of the Farm Bill programs and conducted inspections on watershed dams.

Strenth transferred to Gainesville, Florida, in 2003 to serve as the State Agricultural Engineer for NRCS in Florida. In this position, Strenth assisted NRCS area and field engineers in the design of erosion control, wetland restoration, irrigation, and drainage conservation practices. In 2016, he was selected as the State Conservation Engineer for NRCS in Florida. In this position, he is responsible for the overall NRCS engineering program in Florida. Strenth is also the Program Manager in Florida for NRCS' Emergency Watershed Protection (EWP) Program, which provides financial and technical assistance to local governments to help recover from damages to the local watersheds resulting from natural disasters. Jason is a licensed professional engineer in Florida and Georgia. He is also a member of ASABE, where he has served the Florida Section as the Chair and Vice Chair for Programs.

OUTSTANDING YOUNG ALUMNUS/ALUMNA AWARDS

Recipients of the Outstanding Young Alumnus/ Alumna Awards are ABE alumnus/alumna who have excelled in his or her chosen field or must

have performed outstanding service for the profession.

Dr. Erin G. Webb

Group Leader, Bioresource Science and Engineering, Environmental Sciences Division, Oak Ridge National Laboratory

Dr. Erin G. Webb graduated with her Doctor of Philosophy from ABE in 2005. Her research interests include developing technologies and systems to produce, harvest, store, process, and transport biomass for conversion to biofuels and biomaterials and building and applying simulation tools to design biomass supply chains that are cost-effective, sustainable, and safe. As a Group Leader at the Oak Ridge National Laboratory, Webb leads strategic visioning and implementation of research and development to develop and apply quantitative tools to advance our understanding of how bioresources can be sustainably and reliably produced, delivered, and utilized to expand the U.S. bioeconomy while also preserving ecosystem services. Webb hopes to lead multidisciplinary teams of scientists and engineers to collaboratively develop innovative, reliable solutions for renewable energy and a sustainable bioeconomy that expands economic opportunities in rural America while protecting critical ecological systems.

Marcos Montes De Oca, P.E.

President, MDO Engineering, Inc.

Marcos Montes De Oca obtained his Bachelor of Science in Agricultural and Biological Engineering in 2000 and his Master of Engineering in 2001. After graduating, Montes De Oca worked as a consultant in agricultural and civil engineering. In 2012, Montes De Oca became the City of Belle Glade Public Works Director and established MDO Engineering, a boutique engineering firm. Currently, Montes De Oca serves as a City Administrator for the City of Okeechobee and as the President of MDO Engineering.

Montes De Oca attributes his experience at the University of Florida as one that molded him into the professional that he is today.

During his professional career, Montes De Oca has been involved in many organizations, including the Florida Engineering Society, the Leadership Palm Beach County Class of 2015, the Leadership Glades Class of 2014, American Society of Agricultural and Biological Engineers, Okeechobee Kiwanis International, and Brother of Okeechobee Masonic Lodge. ■



Dr. Erin G. Webb - Group Leader, Bioresource Science and Engineering, Environmental Sciences Division, Oak Ridge National Laboratory



Marcos Montes De Oca, P.E. - President, MDO Engineering, Inc.



ONLINE LEARNING

Achieve Your Career Goals through an Online Program in Agricultural and Biological Engineering

NON-THESIS MASTER OF SCIENCE

Launching Fall 2021

This degree allows students to earn a master's degree completely online. This degree can be earned through the University of Florida Herbert Wertheim College of Engineering or College of Agricultural and Life Sciences. The non-thesis plan of study includes 30 credits. Students are guided through the program with a faculty advisor and have options to engage with others through various departmental activities.

GRADUATE CERTIFICATES

Certificate in Biological Systems Modeling

Offered through the Herbert Wertheim College of Engineering

This certificate offers graduate students and professionals training to model a wide range of biological and environmental systems. Courses introduce students to conceptual modeling, model development and design with high-level programming languages, and an overview of the model application to simulation of biological systems.

Certificate in Advanced SmartAg Systems

Offered through the Herbert Wertheim College of Engineering

This certificate offers training in various topical areas relevant to modern computation-based innovations in agriculture, termed SmartAg. Being identified as the nexus of future technology development in agriculture, SmartAg combines aspects of previous trends including precision agriculture, digital agriculture, agriculture 4.0, agriculture Internet of Things (IoT), and big data into a new paradigm that brings together technical expertise and supports from across engineering disciplines.

Certificate in Applications in AI-based SmartAg Systems

Offered through the College of Agricultural and Life Sciences

This certificate offers training in areas relevant to modern computation-based innovations in agriculture termed SmartAg, which relies on artificial intelligence to implement hardware/software-based solutions. Students can select electives in their area of interest in precision agriculture, remote sensing, GIS, controlled environment, and crop simulation.

Why Online Learning?

- Flexibility
- No need to relocate
- Convenient schedule
- Access to faculty
- Expand opportunities
- Network with peers

Why ABE?

- Graduate Student Organization and Mentorship Program
- Award-winning Department Faculty
- Engage in Career Professional Development Activities
- Network with Industry Professionals and Companies

GET STARTED

For more information about ABE Online Learning Programs, visit abe.ufl.edu/online-learning.

Contact Us

Dr. Greg Kiker

Professor and Graduate Coordinator

gkiker@ufl.edu

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ABE BY THE NUMBERS



#3

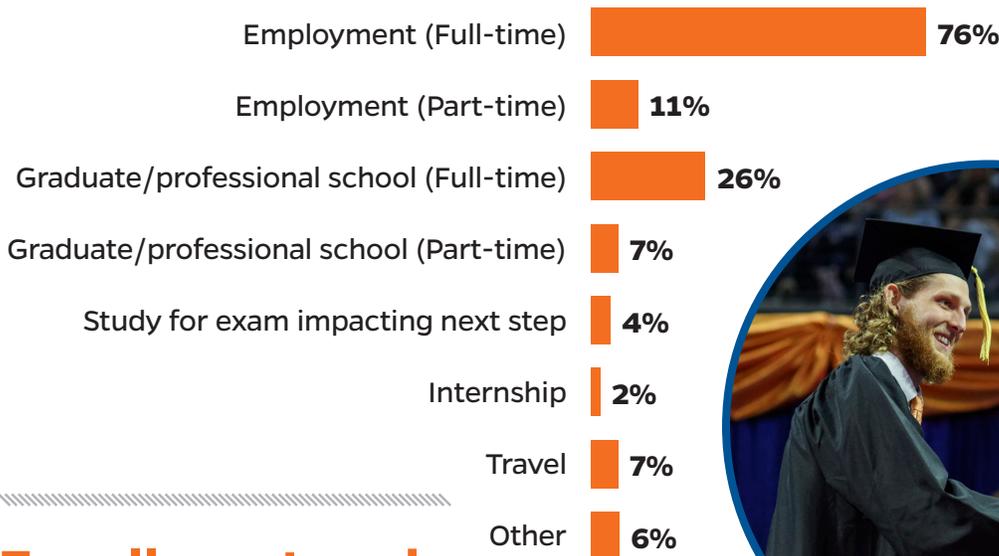
BEST BIOLOGICAL / AGRICULTURAL ENGINEERING GRADUATE PROGRAM

U.S. News & World Report, 2021

The Agricultural and Biological Engineering department offers degrees of Doctor of Philosophy and Master of Science. Students can specialize in one of four areas: Agricultural production, biological engineering, information systems, and land and water resources.

Post-Graduation Plans

Data from 2019-2020
UF Graduation Survey Student Responses



Graduates

Spring 2020-2021

94

Bachelor of Science: 77

Master of Science: 9

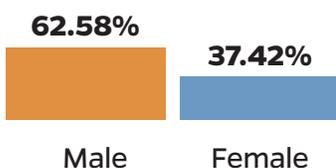
Doctor of Philosophy: 9



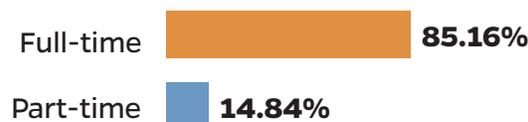
Enrollment and Demographics

Source: Student Information File (SIF) as reported to the State University System of Florida Board of Governors | Last updated: 2/22/21

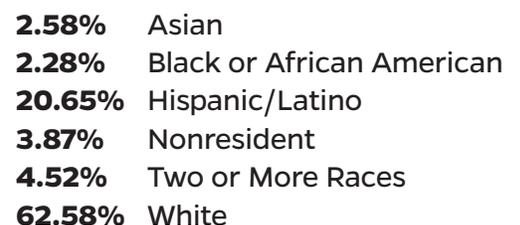
GENDER



FULL-TIME/PART-TIME STATUS



RACE/ETHNICITY



Awards and Accomplishments

- ABE's Graduate Program was ranked **No. 3 among best biological / agricultural engineering graduate programs**, according to the 2021 U.S. News & World Report's Best Graduate Schools.
- Professor **Rafael Muñoz-Carpena** was named a fellow of the American Association for the Advancement of Science (AAAS).
- Assistant Professor **Yiannis Ampatzidis** and his research team received the ASABE AE50 Award for their precision agriculture artificial intelligence platform, Agrovie.
- Professor **Sanjay Shukla** was elected chair of the Hydrologic Science academic cluster and appointed associate editor of the Journal of Environmental Quality.
- Assistant Professor **Aditya Singh** was named co-director of the Proactive Forest Health and Resilience.
- Assistant Professor **Ziyneet Boz** joined the Journal of Food Science as an editorial board (EB) member.
- Graduate student **Stephen Lantin** was selected as a NASA Space Technology Graduate Researcher.
- Graduate student **Barrett Carter** was selected for The Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI)'s National Water Center Innovators Program Summer Institute.
- Graduate student **Raminder Kaur** received the ABE Graduate Student Mentoring Award for her consistent service to her peers and to undergraduate students.
- Undergraduate students **Kip Jedlicka, Carson Ostrum and Gabrielle Fisher** received the Florida Section ASABE Scholarship.
- Undergraduate student **Joshua Jantz** received the Sun Fu "Tony" Shih Scholarship.
- Undergraduate student **Chloe Morter** received the Rush Choate Scholarship.
- Undergraduate student **Marshall Argenbright** received the Bob and Virginia Peart Scholarship.
- Undergraduate student **Taylor Hilton** received the Giles and Martha Van Duyne Scholarship.

Department News

- ABE received 55 gifts from supporters for a total of **\$12.2K on Stand Up & Holler: Gator Nation Giving Day 2021**.
- UF alumnus **Scott Karwan** joined the ABE department as an Engineer III and will oversee our facilities and technical staff. Scott has a B.S. in digital arts and sciences and a M.S. in mechanical engineering from the University of Florida.
- Santa Fe alumnus **Dawarren Harrison** joined the ABE department as an End User Computing Specialist II. Dawarren has an A.A.S. in network security and an A.A.S. in network infrastructure from Santa Fe College.

Doctoral Degree Graduates



Shanyu Meng

Doctor of Philosophy (Ph.D.)
Bio-based Material
Advisor: Dr. Zhaohui Tong



Karyn Elise Pounds

Doctor of Philosophy (Ph.D.)
Food Security
Advisor: Dr. Zhaohui Tong



Ratna Suthar

Doctor of Philosophy (Ph.D.)
Postharvest
Advisor: Dr. Jasmeet Judge

Bachelor's Degree Graduates

Bryce C. Askey

Bachelor of Science (B.S.)
Biological Engineering

Drew Baker

Bachelor of Science (B.S.)
Agricultural Operations
Management

Cristina Betancourt Chehab

Bachelor of Science (B.S.)
Biological Engineering

Marcella C. Bolenbaugh

Bachelor of Science (B.S.)
Biological Engineering

Kevin D. Campos

Bachelor of Science (B.S.)
Agricultural Operations
Management

Maria D. Carbon

Bachelor of Science (B.S.)
Biological Engineering

Lauren Cassidy

Bachelor of Science (B.S.)
Biological Engineering

Lauren M. Cunningham

Bachelor of Science (B.S.)
Biological Engineering

Amanda Goldberg

Bachelor of Science (B.S.)
Biological Engineering

Dylan Green

Bachelor of Science (B.S.)
Biological Engineering

Noah Geoffrey Gross

Bachelor of Science (B.S.)
Agricultural Operations
Management

Savannah E. Gross

Bachelor of Science (B.S.)
Biological Engineering

Bailey K. Harrell

Bachelor of Science (B.S.)
Biological Engineering

William Cecil Jameson

Bachelor of Science (B.S.)
Agricultural Operations
Management

Kip T. Jedlicka

Bachelor of Science (B.S.)
Agricultural Operations
Management

Bo Jia

Bachelor of Science (B.S.)
Agricultural Operations
Management

Riley Elizabeth Jones

Bachelor of Science (B.S.)
Biological Engineering

Kun Woo Kim

Bachelor of Science (B.S.)
Agricultural Operations
Management

Benjamin Thomas**Wolfe Marcum**

Bachelor of Science (B.S.)
Biological Engineering

Aaron J. Molinero

Bachelor of Science (B.S.)
Agricultural Operations
Management

Peter Tuan Nguyen

Bachelor of Science (B.S.)
Biological Engineering

Sierra T. Nunez

Bachelor of Science (B.S.)
Agricultural Operations
Management

Carson Ian Ostrum

Bachelor of Science (B.S.)
Agricultural Operations
Management

Nicklas J. Pappas

Bachelor of Science (B.S.)
Agricultural Operations
Management

Harrell Henry Phillips III

Bachelor of Science (B.S.)
Agricultural Operations
Management

Daniel F. Robinson

Bachelor of Science (B.S.)
Agricultural Operations
Management

Colton Perry Smith

Bachelor of Science (B.S.)
Biological Engineering

Tegan A. Tomasko

Bachelor of Science (B.S.)
Agricultural Operations
Management

Tyler Mitchell Tucker

Bachelor of Science (B.S.)
Agricultural Operations
Management

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GIVING

Your generous donation to the UF/IFAS
Agricultural and Biological Engineering program
will provide support for our students, faculty and
staff.

To support ABE, our scholarships and more,
visit abe.ufl.edu/give.