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The George-Anne

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### The George-Anne

Georgia Southern University

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**How Hurricane Maria impacted the families of GS community members**

**Pages 5-7**

PHOTO COURTESY OF ARIEL GUGGINO



© THOMAS JILK



PHOTO COURTESY OF STUDENTS.GEORGIASOUTHERN.EDU

## SGA AT WORK

Senators continue semester projects to benefit GS

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Tuesday



High: 88°  
Low: 73°

Wednesday



High: 86°  
Low: 71°

Thursday



High: 89°  
Low: 71°

## Weather Bar

Tuesday and Wednesday of Homecoming Week will be a wet and stormy one. Thursday will clear up, hopefully foreshadowing a WIN for GS this Saturday!

## GRADUATE SCHOOL FAIR

WEDNESDAY,  
OCTOBER 11, 2017  
11 A.M. - 2 P.M.  
RUSSELL UNION  
BALLROOM

To see a list of participating schools, visit  
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UNIVERSITY**

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@gsucareers

## Penny Wars

by Fraternity & Sorority Life

11 a.m. - 2 p.m.

Russell Union Rotunda

All this week

Students will raise money throughout the week of Homecoming in support of the services and programming of the 39 fraternity and sorority chapters at Georgia Southern University. Money will be collected at the designated time.

## FOLLOW US!

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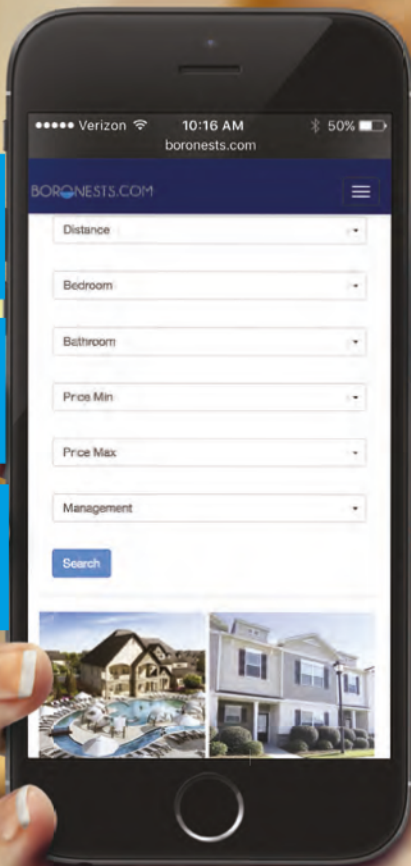
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Vote for your favorite candidate for Homecoming King, Queen, Duke and Duchess on MyInvolvement! Voting closes at 2 p.m. on Thursday.

## OSA T-SHIRT SWAP

Every day this week 11 a.m.  
at the Russell Union Rotunda

Students can exchange non-Georgia Southern University collegiate apparel for a brand new, Georgia Southern Homecoming t-shirt! Don't have a collegiate t-shirt to swap? Simply pay \$2 and bring any other t-shirt and you can own one!

Remember to bring your Eagle ID.

Only 175 t-shirts are available per day so get there early!





“Traditions are what allow us to remember where we came from while striving to become who we want to be.”

As we go into Homecoming, check out Brooke Thompson’s story on Georgia Southern’s many traditions by visiting reflectorgsu.com.

# #WhereAtSouthern

## Where was this photo taken?

Keep checking @gsustudentmedia on Instagram or @SeenAtSouthern on Twitter every Tuesday for new puzzles  
Guess correctly and you could be featured in the paper!



DAVID OLATUNDE

## UPB’s Doo-Dah Dance and Step Show

**Tomorrow: 7:00 p.m.**  
**(doors open at 6:00 p.m.)**  
**Hanner Fieldhouse**

A dance show like no other! Student organizations compete in different categories including step, “doo-dah” and dance for spirit points and prizes! Tickets are \$1 until they run out. Limit: Two tickets per Eagle ID. **MUST HAVE EAGLE ID, NO EXCEPTIONS.** All proceeds will go to the Eagles for Eagles fund.

## COMEDY SHOW

**7:00 P.M. TONIGHT**  
**HANNER FIELDHOUSE**  
**DOORS OPEN AT 6:00 P.M.**

Prepare to laugh your feathers off! The University Programming Board is excited to bring you this great comedy show!  
From MTV’s hit show Wild N’ Out: Rip Michaels, Darren Brand, Karlous Miller and Chico Bean!  
This show is free and open to the public.  
Warning: Adult content. The university’s Clear Bag Policy will be strictly enforced.



<b>AMERICAN</b> Bites 1212 Brampton Ave	<b>DELI</b> Panera Bread 810 Buckhead Dr	<b>PIZZA</b> Little Italy 450 S Main St
Cracker Barrel 216 Henry Blvd	McAlister’s Deli 1100 Brampton Ave	Mellow Mushroom 1098 Bermuda Run
Dingus Magee’s 3 Georgia Ave	<b>FAST FOOD</b> Jimmy John’s 100 Brampton Ave	Primos 609-9 Brannen St
Fordhams Farmhouse 23657 U.S. 80	Krystal 781 Brannen St	Stoner’s Pizza Joint 10706 GA-67
McDonald’s 810 Archway Dr	Steak n Shake 244 Henry Blvd	Your Pie 701 Piedmont Loop
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Wild Wing Cafe 52 Aspen Heights Dr	<b>GRILL &amp; PUB</b> Locos Grill & Pub 91 Briarwood Ln	<b>SOUL FOOD</b> Sisters of the New South 721 S Main St
<b>BARBEQUE</b> Bourbon Grill & More 718 Northside Dr E #10	<b>ITALIAN</b> Olive Garden 201 Henry Blvd	<b>SUB SHOPS</b> Jersey Mikes 721 S Main St
Vandy’s BBQ 725 Northside Dr. East Suite	<b>JAPANESE</b> Tokyo 100 Brampton Ave	<b>SWEETS &amp; TREATS</b> Bruster’s 995 Lovett Rd
<b>CHINESE</b> Chinese Kitchen 456 S Main St	<b>MEXICAN</b> Barberitos 1100 Brampton Ave	Daylight Donuts 455 S Main St
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<b>COFFEE</b> Cool Beanz 58 East Main St	El Riconcito 2 College Plaza	Pita Pit 609 Brannen St
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## A LOOK INTO AN AUTOMATED FUTURE



**RYAN REDDING**

Ryan is a senior marketing major from Bloomingdale, Ga.

With movies such as RoboCop, I, Robot and The Terminator; robots taking over the world is not a new idea in Hollywood. The plot of these movies, which are typically set in the distant future, normally follow the idea that artificial

intelligence has gained a mind of its own and decides to use this new knowledge to destroy the human race.

Whenever I think about a robot invasion, my mind tends to drift towards the same scenario depicted in the films. In our modern

“  
BY THE MID '20S  
TO THE LATE '20S,  
YOU'LL START TO  
SEE A DRAMATIC  
CHANGE IN SORT  
OF HOW MACHINES  
RUN THE WORLD.”

### GREG CREED

CEO of Taco Bell's parent company, Yum! Foods

society we are obviously years away from any sort of real threat from artificial intelligence, right?

While robots will most likely not be out to kill us any time soon, there is a prominent threat currently surrounding the ongoing spike in increasingly intelligent technology. Artificial intelligence is taking jobs away from humans at an alarming rate.

CNN reports that 38 percent of jobs in the U.S. are at high risk of being replaced by robots and artificial intelligence over the next 15 years. But it is okay, we are in college! We are spending four years (if we are lucky) putting ourselves through loads of stress and debt so when we graduate we get to leave with a job waiting for us. We will obviously be okay, let those unskilled high school graduates battle it out for

whatever jobs there are left.

As it turns out, the jobs that robots are taking over are becoming more and more skilled. In the U.S., 61 percent of jobs in the financial services sector are at a high risk of being replaced by artificial intelligence. We are no longer just talking about Charlie Bucket's dad losing his job putting caps on toothpaste tubes, these are jobs that require actual skill from educated people that are being replaced.

A graph posted by Business Insider shows the top eleven jobs at risk of being replaced by AI, the graph includes jobs such as lawyer and personal financial advisor. In a recent interview with CNBC the CEO of Taco Bell's parent company, Yum! Brands Greg Creed, stated,

"I don't think it is going to happen next year or the year after, but I do believe that probably by the mid '20s to the late '20s, you'll start to see a dramatic change in sort of how machines run the world."

In the world we currently live in, people will do anything to make a quick buck. Artificial intelligence is far cheaper and easier to manage than a human worker. After years of education and planning for the future, it is hard to think that a machine can be a reason for you not to

# 61 PER CENT

of jobs in the financial services sector are at a high risk of being replaced by artificial intelligence

have a job.

With technology becoming more advanced every day, the market becomes more and more competitive. We are all taking the first step by putting ourselves ahead of the crowd that did not go to college. This, however, may no longer be enough to ensure a job. Joining clubs and getting internships that you can put on your resume are now essential to future employers. Without them you may end up having to get a job flipping burgers, assuming robots have not taken that over yet.

## STATEMENT OF OPERATIONS

The George-Anne is the official student newspaper of Georgia Southern University, operated by GSU students using facilities provided by the university. The newspaper is the oldest continuously published newspaper in Bulloch County.

The newspaper is published twice weekly, on Tuesdays and Thursdays, during most of the academic year. Any questions regarding content should be directed to the student editor by phone at 912.478.5246 or at [gaeditor@georgiasouthern.edu](mailto:gaeditor@georgiasouthern.edu).

**ADVERTISING:** The newspaper accepts advertising. Inquiries may be made by calling 912.478.5418 or 912.478.0566. For questions e-mail [ads1@georgiasouthern.edu](mailto:ads1@georgiasouthern.edu).

The George-Anne receives additional support, in part, from the Student Activities Budget Committee. For more information, rate cards, or sample publications, contact the advertising manager or student media director. The advertiser is responsible for any errors in advertisements and its liability for adjustments is limited to the amount of space the error occupied in the ad. Further, the newspaper is not responsible for any damages caused due to an ad's omission from a particular edition and its responsibility solely is to reschedule the ad in the next regular edition at the regular advertising rates.

**STUDENTS BEWARE:** The George-Anne screens all advertisements prior to publication. The newspaper strives to accept ads for legitimate products and services only. Students are urged to exercise caution when replying to ads-- particularly those that require personal information. Students are also urged to report to the newspaper any suspicious offers which they might see in an ad.

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**NOTICE:** Unauthorized removal of multiple copies from a distribution site constitutes theft under Georgia law, a misdemeanor offense punishable by a fine and/or jail time.

**CORRECTIONS:** Contact the editor at [gaeditor@georgiasouthern.edu](mailto:gaeditor@georgiasouthern.edu) for corrections and errors.

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## HOW PEOPLE IN STATESBORO AND PUERTO RICO HAVE EXPERIENCED THE STORM

Ariel Guggino and one of her cousins saw a downed tree into sections so that they can remove it in Fajardo, Puerto Rico.

BY JULIA FECHTER  
The George-Anne staff

Hurricane Irma had already impacted Puerto Rico two weeks ago. The storm, measured as a Category 5, caused widespread loss of electricity as an indirect hit.

And then Hurricane Maria arrived. It was a Category 4 storm. This time, it was a direct hit that cut across Puerto from the southeast to the northwest.

Maria further decimated the power grid and cell phone towers, and has made resources such as food, water and gasoline even harder to attain. It has also contributed to 36 official deaths as of Oct. 8, according to CNN and weather.com please Considering communication problems on the island, though, the actual death toll could be much higher.

As well, the storm has impacted relatives of Puerto Ricans. Statesboro relatives of those people all had one thing in common- they seemed anxious to make sure their family was okay.

### MAKING CONTACT

Lizaida Perez-Collazo, senior English major at Georgia Southern University, has family that lives in the southern Puerto Rican town of Ponce.

"There was no way to communicate with them. There's a pain with not knowing," Perez-Collazo said.

She especially wanted to talk to family members like her aunts and grandparents who live in Ponce.

"One aunt was able to call from a Chili's that she works with... I actually missed the call, and I felt so bad, but she got in contact with my uncle [in North Carolina]," Perez-Collazo said. "She wasn't able to tell us too much, because there were other people in line

waiting to talk to their families."

Her aunt relayed to her uncle that the rest of the family was alright, and that had power. However, they had little water, the aunt said.

Perez-Collazo was also concerned about her other aunt. Fortunately, her maternal grandparents were willing to help with that.

"My grandpa got a ticket for Puerto Rico on Monday [Oct. 2] and he is going to come back on Friday [Oct. 6] with my aunt who has a child and is pregnant, and she's going to stay with my mom in Griffin," Perez-Collazo added.

Perez-Collazo elaborated that her grandparents on her father's side will not come to the U.S. mainland until November. They are trying to address a few concerns like tending to her great-grandparents, who are over 90 years old.

"Grandpa is in talks with my grandma about permanently moving here, just because they owned a business that was completely destroyed, a restaurant," Perez-Collazo said. "It was a boardwalk...they're talking about moving here because the likelihood of that being fixed and moving forward is very low."

The GS Associate Dean for Student Conduct, Zwindel Gandia Torres, also has family, ranging from parents to grandparents to cousins, in northern and southern Puerto Rico. She heard from her parents the day after the hurricane.

She has learned that her parents' house partially flooded, and her aunt in southern Puerto Rico, closer to where the hurricane's eye passed, lost part of her house. However, nobody she knew was injured.

"Let's be honest, a lot of it [the

damage] is material. They're safe, they're alive," Gandia Torres said.

### WHEN IT'S YOUR CHILD

Other people in the mainland, like GS geology professor Steve Guggino, Ph.D, actually has a daughter, named Ariel, in Puerto Rico.

His ex-wife, Carmen, Ariel's mother, called the day after the hurricane to tell Guggino that everyone was alright in Fajardo, a town in northeastern Puerto Rico.

"It was such a relief to hear from her, because I was tracking it [the hurricane] all night long, because they [Puerto Rico] got it at night," Steve said.

He explained from his observations that Fajardo, being in the east-northeast quadrant of the hurricane's path, experienced some of the highest winds in the hurricane. The weather had not abated that much when Ariel called him the next day.

"The winds are still 50 miles an hour, tropical storm strength...after that day, I didn't hear from them for a week," Steve said.

Guggino then kept seeing news stories of people dying from mudslides, not having food or water or people being limited from moving supplies because the roads are blocked.

"[I was] just worried and worried. I keep trying to call and call and can't get through. And then last week, I finally get through," Steve said. "It was such a relief. I was almost in tears."

He can now can talk to her once every day or every couple of days. The George-Anne was able to contact Ariel Guggino on Friday, Oct. 6.



## WHAT GUGGINO AND HER FAMILY EXPERIENCED

Ariel Guggino, 24, is a senior geology major at the University of Puerto Rico in Mayaguez. However, she has been in Fajardo the past couple of weeks.

She originally thought she would stay in Mayaguez, since the storm was forecast to be Category 1. However, her opinion changed as Hurricane Maria got closer.

“I turn on the news, and they’re like ‘Oh, it’s a category five. And I’m like ‘oh, that’s a different story,’” Ariel said.

If she had stayed, Guggino would not have been able to communicate with her family in Fajardo. As well, her apartment’s roof is made out of zinc, so she thinks it may not have withstood the storm.

Her mother picked her up on Sept. 18 and they drove back to her mother’s house in Fajardo. The weather worsened and reached its climax in the middle of the night.

“It [the wind] was so loud that to communicate with my mom, we had to shout at each other, literally shout because we couldn’t what we were saying,” Ariel said.

The wind ripped things like the doors to some of Carmen’s storage space, only to throw it back against the windows of the house. Luckily, the windows had protection, Ariel Guggino said.

“Then the winds were so strong, the rain, we could hear coming over... like if somebody was shooting, or like bullets hitting against the windows like that, because it was so hard,” Ariel Guggino said. “Also, the pressure that it made against the house. It was times that we could hear it shake, and the whole house is made of cement.”

They did not open the house’s windows until almost 2 p.m. The storm came to a lull for a short time, allowing Guggino and her mother some time to survey the damage.

“All of the trees were blocking the entrance of my house, so we couldn’t go very far to actually see without a machete, to cut small trails, actually get out and see what was going on in the neighborhood,” Guggino said.

The wind started to pick up again around 6 p.m., so Guggino and her mother went back inside the house. They went to see her grandparents, whose house is like the family headquarters, the next day, on the 21.

## VISITING FAMILY

They first had to clear a path for the car, and after doing so, drove until reaching the private road that led to Guggino’s grandparents’ house, which sits on top of a mountain.

“To get to my grandparents’ house, we had to leave the car at the side of the road and get the machete and make a trail... we walked about a mile to get to the house,” Guggino said.

It took Guggino and her family two days to clear the road to her grandparents’, but they had a little help. While Guggino and her mother were visiting an aunt and uncle, the town had construction equipment out clearing the roads.

“We saw one of them [the machines] clearing up the main road in the county, and we were like ‘hey, could you go up our road?’”, Guggino said.

While the town workers explained that they put clearing public roads first, Carmen heard one of the workers say that they woke up very early but did not have coffee.

“My mom was like, ‘well, I know where you can get coffee, but if you want to get some, then you’re going to have to clear up our road,’” Ariel said. “They’re like, ‘Damn!’, so all of them came up our road to get the coffee.’ And we were like, ‘we haven’t told you the whole story. You have to go up a hill,’ and they were like, ‘Oh, for coffee, we’ll do anything!’”

The workers then cleared up everything up to the top of hill where Guggino’s grandparents live. They sat and stayed for a while drinking coffee before going back to clearing off public roads.

## THE STRUGGLE FOR RESOURCES

Once they could move around, Guggino and her family noticed that they did not have gasoline for their car or their generator.

“People like my grandparents, they have a tank full of water, but they can’t use if they don’t have electricity. That’s why they have a generator. That’s why they need the gas,” Ariel said.

Getting gas was challenging, though. Customers in Fajardo would wait in long car lines for a whole day, only to be told not to get full tanks of gas, that a station had sold out or that a station had been confiscated by the government.

Guggino mentioned that her family would bring gasoline back to her grandparents’ house, so that they could share it.

“Same thing with groceries. We bring all of the groceries to my grandma, because she is the only one with a gas stove, so she’s the only one that can cook,” Ariel said.

The lines for gasoline did not seem as bad as before to Guggino, but transportation opened the door to other needs.

“Now, everyone needs their food. The lines that used to be for the gasoline are now for the supermarkets,” Ariel said.

She described scenes of supermarkets either being almost empty and letting in a few people at a time or being closed because generators for the stores were not working.

“It worries everyone because we’re consuming, but until now [Oct. 6] I

haven’t seen the trucks that bring to the food to the places to be filled up,” Ariel said.

Even though gasoline for cars is generally more available, Guggino elaborated on a tension between getting power and food.

“The news says we have a lot of food. We’re going to start distributing with the truck drivers,” Ariel said. “The problem is we’re running low on diesel. Now everyone has generators, and they need diesel to run them. But then if everyone uses the diesel for the generators, there’s not enough for the truck drivers.”

Guggino realizes her situation could be worse. She explained that people in less accessible areas, like the mountains, may not have had any type of help for water or food.

## WORK AND PLAY POST-HURRICANE

With the hurricane knocking out many electrical sources of entertainment, Guggino has found time to chat with her family and neighbors.

“Sometimes my mom and I will sit out on the porch and watch the stars, because finally we can see them,” Ariel said.

There is also plenty of post-hurricane work to do for Guggino. Her grandparents’ roof is still littered with tree debris. Her grandfather, an electrician, has also needed help providing service to some of his clients.

“His clients can [still] contact him... he gets signals from time to time, or sometimes he can just go to his clients’ house and check in them,” Guggino said. “So sometimes we get in his truck and help him out, taking gasoline to the generators and helping him out with the work.”

## WAITING

Guggino still has not heard any official news from The University of Puerto Rico in Mayaguez, or the west side of the island in general.

“I don’t know anything about my friends, my apartment, my car... anything over there,” Ariel added, “but once the university says ‘we’re back on schedule’, I’ll go back and study to finish my degree. I’m supposed to graduate in December.”

Though there are many unknowns as Puerto Rico moves forward in the recovery process, Guggino and her family are trying not to focus on the negative.

Ariel said, “We’re all struggling to find that stuff, but we all have a positive attitude...things happen, but those things, you have no control over them, so you have to look beyond that and do what has to be done.”





Two people walk through the drink aisle at Ralph's Supermarket in Fajardo, Puerto Rico. There are no more sodas or water in the store.

# FUNDRAISING FOR PUERTO RICO

HERE ARE SEVERAL OF THE CHARITIES RAISING FUNDS FOR PUERTO RICO.

- 1. HEART TO HEART INTERNATIONAL
- 2. INTERNATIONAL RELIEF TEAMS
- 3. MEDSHARE
- 4. PROJECT HOPE
- 5. RED CROSS / CRUZ ROJA
- 6. UNIDOS POR PUERTO RICO

IF YOU WOULD LIKE TO RESEARCH THESE OR ANY OTHER CHARITIES BEFORE DONATING, YOU CAN GO TO [WWW.CHARITYWATCH.ORG](http://WWW.CHARITYWATCH.ORG) OR [WWW.CHARITYNAVIGATOR.ORG](http://WWW.CHARITYNAVIGATOR.ORG).

NOTE: THIS IS A SUGGESTED, BUT NOT EXHAUSTIVE, LIST OF CHARITIES CURRENTLY RAISING FUNDS FOR PUERTO RICO.

FOR ALL MAJORS!



LEGISLATIVE INTERNSHIP PROGRAMS

Eagles in D.C. and Georgia Legislative Internships

MEET AND GREET

Wednesday, October 18, 2017, 4-6:30 p.m. Russell Union

Come enjoy some free pizza & talk with former interns!

SPECIAL GUEST:



**Annalee Ashley**  
State and Government Affairs Officer  
Former Legislative Staffer and Former LIP Participant

▶ [GeorgiaSouthern.edu/legislativeinternships](http://GeorgiaSouthern.edu/legislativeinternships), For more information, contact: [legislativeinternpgm@georgiasouthern.edu](mailto:legislativeinternpgm@georgiasouthern.edu) ◀



# SGA announces Fall 2017 senator projects

BY GEORGE ANDERSEN

The George-Anne staff

Student Government Association (SGA) senators are currently working on over 45 senator projects for this year.

SGA President Dylan John said this increase from five to six projects a year to placing all 45 senators on individual projects is largely due to a change in the framework of how SGA is run and the inclusion of the SGA Vision 20/20 project.

Rather than one administration picking four or five different topics, SGA is now spread more across campus, said Keely Lassig, SGA Chief of Staff.

"There's a reason why there are projects," Lassig said. "They stemmed from things we saw that weren't really working... so [Dylan John] has had a lot of time to kind of mold SGA into something that can be really sustainable."

The current SGA administration believes that senators picking their own projects is crucial to the success of the organization, randomly assigning senators project will not have as effective of an outcome, according to Lassig.

"Basically, what I tell senators is to pick

something that you are passionate about and will put work and effort into and will be proud to talk about," Lassig said.

The following are upcoming SGA Senator projects.

## "Bosses, Babes and Brunch"

A lecture called "Bosses, Babes and Brunch," will be held in the Russell Union Ballroom on Oct. 21 from 10 a.m. to 2 p.m.

The event, organized by SGA Senator Isabelle Thomas, will host speakers Dean of Students Patrice Jackson and Cindy Breshears, Chief Transformational Officer at Bluewolf and IBM Company. Both will share their experiences in the workforce from a woman's perspective, said Lassig.

## First annual SGA week

The biggest SGA event overall according to Lassig, is the first annual SGA week. The week will have a different name every year, this year's being

"Issa Week".

It will begin on Nov. 6 and run for the entirety of the week. A different event will be scheduled every day to represent individual senators and their projects.

## "Crossing the Fence"

An ongoing project called "Crossing the Fence," will be SGA's attempt to spread its presence on campus, said to Lassig.

According to Lassig, SGA intends to spread their presence from the area of campus that SGA feels they have the most coverage, all the way to where their coverage is lacking which Lassig said is from lakeside on, ending near the RAC.

"Crossing the Fence," will be partnering with other senator projects, in order to expand their reach.

"Every senators project, even if it's an event, will continue throughout the year," Lassig said. "A good 50 percent of [senators] projects is the sustainability of it, making sure that it can last into next year."

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# CRUSADING AGAINST CONCUSSIONS

How a research team at Georgia Southern is helping to shape the narrative around the enigmatic brain injury

BY THOMAS JILK

The George-Anne staff

Speaking at a football coaches’ seminar, Nicholas Murray looked out into the audience to see sparse attendance. He knew more coaches were at the event. He knew they had decided to skip his presentation.

They would rather mingle in the hallway than face an issue threatening public opinion about the safety of the South’s most coveted sport.

Murray is no stranger to the concussion stigma. The Georgia Southern University kinesiology professor and director of concussion research has been confronting the effects of concussions head-on since his arrival from the University of Texas-El Paso in 2014.

“A lot of people don’t want to hear it,” Murray said. They want to ignore it and I know people still, to this day, even at the higher levels of sport who just say ‘well, concussions are a myth.’ I’ve had coaches recently tell me that. They go ‘everything you do doesn’t really matter because it’s not real.’”

But Murray understands that just because the field of research surrounding concussions is still in its infancy, that doesn’t mean the research isn’t real.



Helmets sit on a diagram of the human eye in the biomechanics lab in the Hanner Building. This re-done basketball gym is where much of the concussion research at GS takes place.



Nicholas Murray is a GS kinesiology professor and also the director of concussion research.

analyzing a plethora of concussion research data.

Aside from conducting original research, the team assesses and monitors GS athletes who have suffered head trauma and allows members of the community, including children, who are affected by blows to the head, to be analyzed.

Hunt explained that the work done in Statesboro is well-rounded compared with other universities.

“The testing that is occurring here at Georgia Southern is comprehensive in nature,” Hunt said. “It takes into account multiple factors, so we’re looking at balance and posturography, we’re looking at visual tracking, we’re looking at cognitive abilities. We’re looking across the board, not just one or

## THE TEAM

Murray’s mind is not the only one at GS set to the task of broadening the body of knowledge concerning the effects of concussions. He is joined by two other professors: Tamerah Hunt, Ph.D., from the athletic training program, and Barry Munkasy, Ph.D., of the kinesiology department.

The professors work closely with the athletic training department, especially the associate athletic director for sports medicine, Brandy Clouse.

A group of graduate assistants conduct evaluations in the biomechanics lab – on the bottom floor of the Hanner Building - recording and

two pieces of the puzzle.”

The team’s contributions range from tangible, published research to intangible and insightful advice to parents wondering aloud if they should let their kids play football.

Murray underscored the importance of working collaboratively with the athletic training staff to make sure all head injuries are treated properly.

“Our sports medicine staff is outstanding,” Murray said. “We take it very seriously that we invest a lot of money and tools and things to help us with a diagnosis.”

Sensors are in the GS helmets in practice and in games and if a hit on a player reaches a certain force threshold, that player is assessed for a concussion. The team is always watching.

“We have spotters on the field, spotters in the stands, if anyone takes a large hit, we assess them,” Murray said.

## WHAT DO WE KNOW?

By using the Wii Fit Soccer heading game, Murray and Munkasy discovered in a groundbreaking 2016 study that athletes who had suffered a concussion 24-48 hours prior to testing exhibited excessive eye movements compared to non-concussed subjects.

“We discovered that vision actually plays a role in all this,” Murray said. “When you have too many of those movements of your gaze, they become error-ridden and you don’t get the information from the environment that you need.”

This means that if a running back suffers a concussion and insists on staying in the game, he may not see a linebacker coming from his blind side because his gaze is averted elsewhere, making him susceptible to further injury.

Murray said the consequences of constant eye movements could contribute directly to on-field issues “like colliding with another player, balance problems, not being able to see the hurdle that you’re going to jump over, or missing the ball or missing the tackle”.

In about 90 percent of sport-related concussions, regardless of age or gender, the athletes exhibit visual abnormality to some extent, according to Murray. The question then becomes how long do these effects last?



It remains unclear, although Murray said certain noticeable symptoms seem to hang around for a month or more.

“They’re still very elevated in terms of their abnormalities in their balance and posture,” Murray said. “They’re at day 30 and they still haven’t recovered.”

Hunt is zeroed in on educating young athletes and parents, and one of her studies quantified how a concussion-education video is an effective tool to steer injured athletes toward reporting symptoms rather than trying to hide them.



© THOMAS JILK

A concussed subject undergoes testing using headgear with eye-monitoring technology in the concussion research lab.

According to the study, Hunt found “an increase in the reporting of concussion history and knowledge of symptoms after watching a concussion-education video.”

This is based on the idea that a majority of high-schoolers are unaware of the potential consequences of concussions. These include the degenerative brain disease known as chronic traumatic encephalopathy (CTE) that has been discovered in the brains of 99 percent of NFL players who reported symptoms during their lifetimes. CTE has been blamed for the suicides of prominent football players like Junior Seau and Aaron Hernandez.

Hunt is part of a team that was recently given a Centers for Disease Control grant to explore how to change the perception of head injuries.

“What this grant is going to look at is how we educate the parents, the coaches, the referees, the athletes,” Hunt said.

## UNCHARTED TERRITORY

While certain studies reveal troubling results for athletes involved in violent sports like football and boxing, the researchers’ understanding is

still too incomplete to steer kids away from these sports.

“We know so much, but we know so little,” Hunt said. “There’s no longitudinal study that studies a student-athlete from the age of 5 when they may start playing sports and then tracks then through retirement from a professional sport, so we don’t know.”

She added that some studies, including the recent one that received national media attention for resulting in 99 percent diagnosis of CTE in former NFL players, have biased samples and cannot be completely trusted.

“Until we know the true long-term effects ... I think it’s hard to make just a blanket statement that this is what’s happening,” Hunt said.

Murray acknowledged that the science is opening eyes for some people, if not for the coaches in denial refusing to listening to his presentation.

“Contact football participation is dropping, and I think it’s primarily because the parents are scared,” Murray said. “Or they know, maybe, the facilities don’t have access to appropriate health providers and medical care.”

“Hunt cited the benefits of football, including “socialization, team sportsmanship and discipline,” as (for

THE TESTING THAT IS OCCURRING HERE AT GEORGIA SOUTHERN IS COMPREHENSIVE IN NATURE... WE’RE LOOKING ACROSS THE BOARD, NOT JUST ONE OR TWO PIECES OF THE PUZZLE.”

**TAMERAH HUNT, PH.D**  
Assistant Professor of Athletic Training

now) outweighing the negative effects of repeated blows to the head.

Murray, a die-hard Los Angeles Chargers fan, agreed: “Take away football from our lifestyle, it changes the way that we act, I think.”

He said kids learn to become better adults when they play sports, but that accessing children in order to study them is a huge challenge. Another challenge, he said, is getting people to acknowledge the science.

According to Murray, some college football programs report having zero concussions every year, which he thinks is “really, really farfetched” and a result of the stigma of being injured in football.

Players don’t report because they don’t want to be seen as weak, and coaches don’t report symptoms because they aren’t looking for them.

“We listen to the science and we apply the science,” Murray said.

## THE BIG PICTURE

In an incisive column written recently for The Washington Post, legendary journalist George Will wrote, in light of recent research, that the sport of football would never again be “the subject of uncomplicated national enthusiasm.” The fact that players consistently topped 300 pounds nowadays makes collisions that much more dangerous because – thanks Isaac Newton - as mass increases, so does force.

Dr. Bennet Omalu, the researcher credited with discovering CTE portrayed by Will Smith in the major motion picture “Concussion”, has said that letting kids play football should be considered “child abuse.”

Tom Brady has been under fire for telling reporters that his concussion history was none of their business. The issue has stepped onto the national stage over the past ten years. As researchers publish findings and prominent figures weigh in, the concussion research team at GS remains steadfast in its contribution.

Hunt said, “As things are coming out and the world is evolving, Georgia Southern is staying up with the times of the evolving world that is concussio.”

Fall 2017

# STUDENT ORGANIZATION ESSENTIALS

All SOE Workshops will take place in Russell Union 2054

Date	Topic
Friday, October 5th	Officer Transitions
Thursday, October 19th	MyInvolvement
Friday, November 3rd	Social Media



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11

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40 Neighbor of Ger.  
41 "The End of the World" singer Davis  
43 Unkempt hair  
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46 Kind of appeal  
47 Like Solomon  
48 Globe  
50 Summer cooler  
52 Last resort, maybe?  
56 Cared for  
57 Cutting tool  
58 World view  
59 Memory unit  
60 Twofold  
62 "See you later!"  
64 Impolite look  
68 Growing room

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- 69 Carve in stone  
70 Plaudits  
71 Peace of mind  
72 Palm reader, e.g.  
73 Letter before iota
- 9 Brightly printed fabric  
10 Cause of wrinkles  
11 Come-ons  
12 Dog's warning  
13 Back street  
21 Sales booth  
23 Bake, as eggs  
25 Steal  
26 Passion  
27 De Gaulle's birthplace  
28 Football side  
29 Conceit  
31 Rivals  
35 Minute bit  
37 Asian nurses  
38 Motherless calf
- 39 Floor it  
41 Pull strings?  
42 Key material  
45 Dove's sound  
47 Duration  
49 Dentist's advice  
51 Start  
52 Kind of gun  
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54 Bygone leaders  
55 Malice  
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61 Authorize  
63 One-spot  
65 Brewpub offering  
66 Rodent  
67 Greek vowel

Down

- 1 Hammett's detective Spade  
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# October 9-14 | GS Eagles vs. New Mexico State

## GeorgiaSouthern.edu /Homecoming

### MONDAY, OCT. 9:

#### Banner Competition

*(by the Office of Student Activities)*  
Student organizations design theme-related banners that will hang on the Pedestrium through the week of Homecoming.

#### Paint the Campus Blue

*(by the Office of Student Activities)*  
Campus departments design theme-related displays on their windows and/or doors to compete for spirit points.

#### Biggest Fan on Campus Tailgate

*(by the Office of Student Activities)*  
**11 a.m. – 2 p.m. at Russell Union Rotunda**  
Student organizations can set up tailgates and enjoy games, music and a Biggest Fan on Campus competition!

#### True Blue BBQ

*(by the Office of Student Activities)*  
**11 a.m. – 2 p.m. at Russell Union Rotunda**  
Who has the best BBQ chicken on campus? Student organizations can set up grills at their tailgates and compete to win over our expert judges. Organizations must register to participate. Who will be crowned?

#### Penny Wars

*(by Fraternity & Sorority Life)*  
**11 a.m. – 2 p.m. at Russell Union Rotunda**  
Students will raise money throughout Homecoming Week in support of the services and programming of the 39 fraternity and sorority chapters at Georgia Southern University. Money will be collected at the designated time.

#### T-Shirt Swap

*(by the University Programming Board)*  
**11 a.m. at Russell Union Rotunda**  
Students can exchange non-Georgia Southern University collegiate apparel for a brand new, Georgia Southern Homecoming t-shirt. Don't have a collegiate t-shirt to swap? Simply pay \$2 and bring any other t-shirt and you can own one. Remember to bring your Eagle ID. Only 175 t-shirts available per day. Be sure to get there early!

#### Royalty Candidate Voting

*(by the Office of Student Activities)*  
Be sure to vote for your favorite King, Queen, Duke and Duchess candidates. Voting will be on MyInvolvement starting at 8 a.m. and ending on Thursday, 12 at 2 p.m.

#### GSU Idol

*(by the Student Government Association)*  
**7 p.m. at Russell Union Ballroom**  
Be the next GSU star, and show the campus who you really are! Students can compete in a sing-off to become the new GSU Idol. Tickets will be \$5 in advance and \$7 at the door. Students, be sure to bring your student ID!

### TUESDAY, OCT. 10:

#### Penny Wars

*(by Fraternity & Sorority Life)*  
**11 a.m. – 2 p.m. at Russell Union Rotunda**  
Students will raise money throughout Homecoming Week in support of Eagles for Eagles. There will be a twist each day. Money will be collected at the designated time.

#### T-Shirt Swap

*(by the University Programming Board)*  
**11 a.m. at Russell Union Rotunda**  
Students can exchange non-Georgia Southern University collegiate apparel for a brand new, Georgia Southern Homecoming t-shirt. Don't have a collegiate t-shirt to swap? Simply pay \$2 and bring any other t-shirt and you can own one. Remember to bring your Eagle ID. Only 175 t-shirts available per day. Be sure to get there early!

#### Comedy Show

*(by the University Programming Board)*  
**7 p.m. at Hanner Fieldhouse. Doors open at 6 p.m.**  
Prepare to laugh your feathers off! The University Programming Board is excited to bring you this exciting comedy show! Comics: Darren Brand, Chico Bean, Rip Michaels and Karlous Miller of MTV's Show-Wild N' Out. Remember to bring your Eagle ID.

### WEDNESDAY, OCT. 11:

#### Penny Wars

*(by Fraternity & Sorority Life)*  
**11 a.m. – 2 p.m. at Russell Union Rotunda**  
Students will raise money throughout Homecoming Week in support of Eagles for Eagles. There will be a twist each day. Money will be collected at the designated time.

#### T-Shirt Swap

*(by the University Programming Board)*  
**11 a.m. at Russell Union Rotunda**  
Students can exchange non-Georgia Southern University collegiate apparel for a brand new, Georgia Southern Homecoming t-shirt. Don't have a collegiate t-shirt to swap? Simply pay \$2 and bring any other t-shirt and you can own one. Remember to bring your Eagle ID. Only 175 t-shirts available per day. Be sure to get there early!

#### Sidewalk Competition

*(by the University Programming Board)*  
**4 p.m. at Paulson Stadium**  
Student organizations design theme related displays on the Paulson Stadium driveway, to compete for spirit points.

#### Doo-Dah Dance and Step Show

*(by the University Programming Board)*  
**7 p.m. at Hanner Fieldhouse. Doors open at 6 p.m.**  
A dance show like no other! Student organizations compete in different categories including step, "doo-dah", and dance for spirit points and prizes! Tickets are \$1 and can be purchased as follows: October 3–6 from 11 a.m. – 2 p.m. at the Russell Union Rotunda or 2:30 p.m. – 5 p.m. in the Office of Student Activities (Williams Center). Tickets will be available as scheduled, until sold out. Tickets will NOT be sold day of or at the door unless we do not sell out the week before. Limit: 2 tickets per Eagle ID. MUST HAVE EAGLE ID, NO EXCEPTIONS.

### THURSDAY, OCT. 12:

#### Penny Wars

*(by Fraternity & Sorority Life)*  
**11 a.m. – 2 p.m. at Russell Union Rotunda**  
Students will raise money throughout Homecoming Week in support of Eagles for Eagles. There will be a twist each day. Money will be collected at the designated time.

#### T-Shirt Swap

*(by the University Programming Board)*  
**11 a.m. at Russell Union Rotunda**  
Students can exchange non-Georgia Southern University collegiate apparel for a brand new, Georgia Southern Homecoming t-shirt. Don't have a collegiate t-shirt to swap? Simply pay \$2 and bring any other t-shirt and you can own one. Remember to bring your Eagle ID. Only 175 t-shirts available per day. Be sure to get there early!

#### Sculpt-It for the Food Bank

*(by the Office of Leadership and Community Engagement)*  
**11 a.m. – 2 p.m. at Russell Union Commons**  
Student organizations bring canned goods and create sculptures related to the Homecoming theme in support of the Statesboro Food Bank. Sculptures will be judged to win spirit points. All canned items will be donated to the Statesboro Food Bank.

#### Screaming Eagles

*(by the Residence Hall Association)*  
**7 p.m. at Russell Union Ballroom**  
Come out and enjoy a lip sync competition you will not forget. Bring your Eagle ID!

### FRIDAY, OCT. 13:

#### Homecoming Parade

*(by the Office of Student Activities)*  
**4 p.m. from College of Education (Lot 42) to Sweetheart Circle**  
Student organizations, campus departments, and members of the community enter parade floats, Krazy Kars, and characters in a spirit-filled parade. Parade will arrive at Sweetheart Circle at approximately 4:15 p.m.

#### Celebration

*(by the University Programming Board)*  
**5 p.m. at Sweetheart Circle**  
Join us on Sweetheart Circle as we wrap-up a Totally 90s week. Enjoy free food and activities for everyone! We'll have a few special performers and an award ceremony for all of the Homecoming events that occurred during the week. Come and see who will be crowned Duke/Duchess and who made King/Queen Court! Celebration is a Georgia Southern tradition, you don't want to miss!

### SATURDAY, OCT. 14:

#### TRUE BLUE 5K/10K RACE

*(by Campus Recreation & Intramurals)*  
**8 a.m. at the Recreation Activities Center (RAC)**  
Students and community members can stay active and participate in this years True Blue 5K/10K all while sporting their Georgia Southern University colors and apparel. Visit georgiasouthern.edu/cr for registration information.

#### Crowning of Homecoming King and Queen

*(by the Office of Student Activities)*  
**Halftime at Paulson Stadium**  
Two students, nominated by their organization and voted for by their peers, will be crowned the 2017 Homecoming King and Queen!

If you need accommodations related to access, please contact the University Programming Board at UPB@georgiasouthern.edu or by phone at 912-478-2603 at least two weeks prior to the event.



Office of Leadership and Community Engagement

Residence Hall Association

Fraternity and Sorority Life

Office of Student Activities

Campus Recreation and Intramurals

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