

## Department of **Orthopaedics**

## Beyond the Bone



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#### **Acknowledgments**

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## Message from the Chair

Robert D. Zura, MD

he past year has seen LSU Orthopaedics emerge from the post-Katrina, post-Covid-19 "treading water" phases, with the department now spreading its wings and moving forward. The most significant—and exciting—news is that the ACGME has now approved the residency complement increase to 25, allowing us to match five residents per year. We matched 5 PGY-1's that started on July 1, 2024!

While I have wanted this ever since I assumed the position as chair, Mike Hartman was the driving force behind the effort, along with Carter Clement and Linda Flot. Fundamentally, this milestone is a testament to the persistence and hard work on the part of our entire faculty, staff, and residency team. The remaining challenge is to secure funding for all of the residents.

Another sign of our growth trajectory is that we have recently been approved to bring a full-time hand surgeon on board—something that is greatly needed. This too was a long time coming...nearly nine years! Drs. Donnelly, Ahmad, and George and others have been invaluable to our patients and learners all these years – and WILL continue to be critical and irreplaceable members of our team.

I am pleased to announce that The Center for Exercise Science and Sports Medicine (CESSM), a collaboration between LSU Athletics, the LSU



School of Kinesiology, LSU HSC New Orleans School of Medicine and Orthopaedics, and the Biological and Agricultural Engineering departments, will be implemented on January 1, 2025. These efforts were spearheaded by President Tate and supported by Our Lady of the Lake.

The vision of the CESSM is to become the nation's leading athletic research center. This will involve multiple objectives, including the establishment of the infrastructure to centralize sports medicine and performance research, an increase in cross-departmental collaboration in exercise science and sports medicine and the pursuit of additional funding from federal and non-federal sources.

Also exciting is that LSU was recently selected as an official NFL research site, one of the few such entities in the country. We will first undertake a study looking at energy transfer in head injuries, i.e., "Biomechanics of Head Impacts in NCAA Football." The goal is to determine the frequency and severity of head impacts in order to develop interventions related to equipment, training, and technique.

## Message from the Chair

We introduced Dr. Michelle Moore, Psy.D., ABPP, associate professor of Clinical Psychiatry at LSUHSC and Section Chief for Psychology as the newest member of our orthopaedic faculty. Dr. Moore's work on faculty wellness has boosted morale as we are investing heavily in faculty development.

Carter Clement, M.D., M.B.A., associate professor of orthopaedics at LSU, was awarded the Special Effort and Excellence Award by the Pediatric Orthopedic Society of North America (POSNA). Dr. Clement, associate program director for LSU's orthopaedic surgery residency, is an active POSNA committee member.

Jessica Rivera, M.D., Ph.D. is Chair of the Research Committee of the Limb Lengthening and Reconstruction Society and was named coeditor in chief for the January-June 2024 issue of the newly acquired Journal of Limb Lengthening & Reconstruction. She has recently assumed the role of Director of the MD/PhD. Program in the school of Graduate Studies.

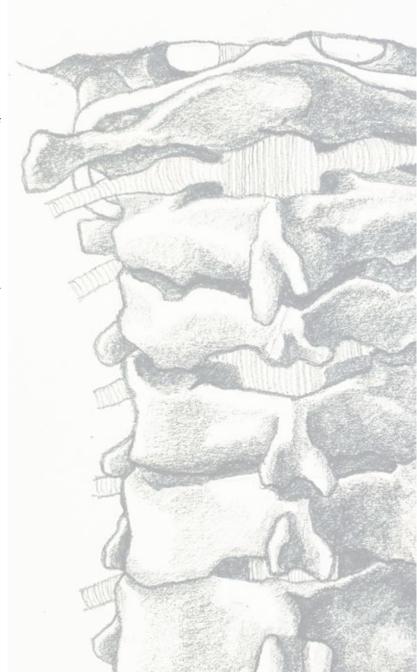
Matthew Scott, M.D., Ph.D., is joining our department as a post-doc and will continue his work on bone biology while collaborating with Dr. Rivera on novel ways to prevent and treat bone infections.

Our orthopaedic family lost two members this past year. Dr. Michael Avery LaSalle, a talented orthopaedic surgeon who cared for patients in Thibodaux and Houma, was a compassionate person who had an easy laugh and regaled us all with many stories. We also lost Dr. Adam Perry, the founder of The Louisiana Orthopaedic Specialists and the surgeon who performed Acadiana's first ROSA robotic hip replacement. Dr. Perry crafted a robust vision of what orthopaedic care in Acadiana should look like and steadily worked to make that a reality.

Lastly, we are so proud of our own Daniel Gelvez, M.D., who was voted resident of the year at UMC. This is a crowning moment for our burgeoning department and reflects our continued resilience and growth trajectory. The evolution of the department will continue as our astute faculty, staff, and residents conceptualize and deliver on new ideas that move patient care forward.

#### Robert D. Zura, MD

Robert D'Ambrosia Professor & Chair Department of Orthopaedic Surgery LSU Health Science Center New Orleans





## FEATURING Michelle Moore, Psy.D.

While most orthopaedic surgeons have likely never heard of the DISC profile (Dominance Influence Steadiness Compliance), Michelle Moore, Psy.D., Associate Professor at LSUHSC and Director of Faculty Department for the Department of Orthopaedic Surgery, is changing that. Dr. Moore, Co-Chair for the Faculty Development and Evaluation Committee at the LSU School of Medicine, works closely with faculty and staff of the LSU orthopaedics department to aid individuals and the system to reach their full potential.

"Part of my mission is to challenge faculty and staff to reimagine what wellness at work looks like, which includes examining how to find wellness in one's existing work-related activities. To this end, we use the DISC, a self-assessment tool that assesses behavioral style. For example, does someone always take the lead or are they more comfortable being assigned a task?"

Dr. Moore's "sustainable wellness" approach, initiated by The National Wellness Institute, involves six dimensions: emotional, occupational, physical, social, intellectual, and spiritual.

### **Focus on Faculty**

#### AN EXAMPLE OF HOW ACTIVITIES MAP ONTO WELLNESS ON THE INTERPERSONAL LEVEL (DEPARTMENT)

| Occupational   | Emotional  | Physical   | Social  | Spiritual  | Intellectual   |
|--|--|--|---|--|--|
| Promotion Planning Maintaining professional competence Succession Flamming Practical resources et work LOR time, SAPA respect, EPIC nevigation Equitable salery Lealanting Academy | Increasing self-<br>evoreness and<br>somewhellow for<br>DISC Assessment<br>Monitoring by bursul<br>—Compan Analistance<br>services<br>Memoring browning<br>Memoring Conching<br>sessions<br>Annual leave | Easy access to healthy marks. Steeps reanagement artistics like and the like and th | Institutional service/sectional sectional service/sectional sectional | Why do I work at 1,334-927 floor it 1,334-927 floor | Journal Club Rescaled Cay pre-sensitivities a pre- free reschized policial consumption and other withing other withing. Tracking and counts (Invalidation and counts (Invalidation and conference) Clubbs speakers |

How do these align with Clinical, Teaching, Research and Service domains?

"In May we held a faculty retreat for the orthopaedics department where, after doing the DISC, people broke up into their dominant dimension to see what skills each group had and how we could leverage those differences. With the DISC profile each person falls somewhere on the continuum for each dimension. Someone who is high on influence is often great at socializing and likes crowds so they will probably excel at teaching. If they are also high on dominance, they may be assertive and fast-paced and may also expect residents to 'move' equally as fast."

To feel fulfilled, says Dr. Moore, it is important to ask, "How am I achieving wellness within each of these dimensions?"

"It has been rewarding to witness faculty members say things like, 'I haven't thought of it that way!'
The faculty are energized and engaged and are actively expanding what their professional development path looks like."



#### Focus on Faculty CONTINUED

MAP OF WELLNESS IN ACADEMIC MEDICINE

WHERE DO WE FIND WELLNESS ON AN INSTITUTIONAL LEVEL IN OUR CORE AREAS?



"I have started bringing in faculty development topics to the orthopaedic meetings, sharing an article, video or podcast for review prior to the meeting. Then we discuss the topic, some of which have included: narrative feedback, how learners respond to discomfort in training environments, thriving in a career in academic medicine, and developing a growth mindset."

"In academic medicine, we must keep the overarching academic mission in mind, i.e., clinical, research, teaching, and service. So another component to examine is how each faculty member's wellness contributes to aligning with the mission of academic medicine. Most faculty tend to be heavy on clinical and teaching, of course, but ideally, they will thrive in all four academic domains."

Dr. Moore emphasizes the breadth of benefits to having a psychologist on staff. "My position, while good for individual faculty members, also helps move the department forward as we examine how these initiatives affect the processes and efficiency of the department."

Overall, says Dr. Moore, LSU faculty, staff and residents have an advantage: New Orleans itself. "This inimitable city offers no shortage of social engagements— parade parties, crawfish boils, etc. With connection being so vital for mental health, individuals here definitely have an edge when it comes to the social dimension."

While Dr. Moore educates others about the benefits of wellness, she also practices what

she teaches. She is an avid runner who finds mental and physical benefits from morning runs during the week as well as long distance running whenever possible. She enjoys the half marathon distance the most because it is challenging but not impossible to train for as a mother of three with a full-time career.

Dr. Moore's running often carries a lot of meaning and connects to her purpose in life. This is never more true than when she is running to raise awareness for ALS, a disease that took her mother's life in 2019. She has run the Crescent City Classic to support the efforts of Team Gleason for the last seven years. Dr. Moore also accomplished an item on her bucket list when running the NYC Marathon last November as a member of Team ALS.

"Training for long distance running events is fulfilling on many levels of wellness—emotional, social, physical and spiritual. The feeling of accomplishment and pride when crossing the finish line on race day after months of preparation is absolutely worth the journey."

Dr. Moore can also be found watching her two sons play flag football, baking cookies with her daughter and spending time with her husband planning the next family get away to the beach or Callaway Gardens.



## FEATURING Peter Krause, M.D.

While a "constant stream of chaos" isn't necessarily something one would seek, Peter Krause, M.D., the Elaine A. Doré Endowed Chair in Orthopedics and Vice Chairman of the Department at LSUHSC, is immersed in it...and rises to the occasion multiple times a day.

"We care for patients with massive, complex social issues who also have numerous injuries such as multiple broken bones and traumatic head injuries," states Dr. Krause.

While Dr. Krause began at LSU as an orthopaedic trauma surgeon he couldn't shake his interest in the hip. "It was 2002 and the program had just lost a hip surgeon and the chair asked me if I would like to do hip replacements."

Jumping at the chance, but aware that he needed to learn more, Dr. Krause approached the esteemed Dr. Joel Matta at a conference. "I said, 'May I come watch you operate?' He was very gracious and accepted immediately. Things were slower after Katrina, so I took a week off to watch him operate and after that returned to N.O. with a new skill to develop: anterior hip replacement."

As for why this particular interest in hip replacement, Dr. Krause notes, "It is one of the best operations any surgeon could perform as far as its effect on quality of life. In addition, I learned early on that I

don't like fiddling with tiny things—so the technical aspect of the bigger operations is a much better fit for me."

"A lot of my memorable cases are patients with destroyed hips after prior acetabular fracture or prior hip fracture. One young woman of 20 had a severe hip injury when she was 16 and had a massively destroyed hip; she had a 5 cm leg length discrepancy due to her prior failed acetabular fracture surgery. I was so thrilled to be able to restore her leg length and repair her hip, i.e., truly get her back to a good quality of life. It's now been about 15 years, and I still stay in touch with her and see her from time to time."

"In general, we see a lot of gunshot wounds as well as high rates of delayed presentation due to lack of access to healthcare. In the latter situation, it may be because the person ignored it, or the local ER didn't recognize it as being serious. We had a woman with bilateral femoral neck fractures who had been to several ERs and had an extensive work-up of her back, which was all negative. By the time she reached us, the fractures were chronic, and replacement was the best option. Then there was a 30-year-old woman who fell and was seen at two ERs before seeing us...they had both missed her hip fracture."



Concerning the rhythm of one's workflow, Dr. Krause says, "I encourage residents to PAUSE and rely on the basic principles of good medicine. They should do the things they know need to be done—then, in the light of day, they can plan out the reconstruction."

Recalling one memorable case, Dr. Krause says, "A group of local neo-Nazis ambushed some individuals just outside the city. Their high caliber

## **Focus on Faculty**

CONTINUED

weapons resulted in one death and a man who showed up in our ER. He had a blast wound to the shoulder and the initial Xrays were complex—bullet fragments were everywhere. We took him to the OR, cleaned the wound and ensured there was no serious hemorrhaging. We did basic sound care and were fortunately able to reconstruct the shoulder despite the high velocity wounds."

"Trainees should also be open to enlisting help from others. For example, they could take advantage of our combined conference to present challenging cases and get input...and do so before they give up. Another option is to reach out to colleagues from other institutions, something I do when necessary."

"I'm working on several research projects now, a few of which are with Dr. Vinod Dasa using large databases to answer interesting orthopedic questions. We call our group "BONES" which stands for "Big Orthopedic Numbers and Empiric Statistics." One study we did recently looked at disparities in transfusion rate in total joints. Although transfusion rates for total joint patients are down, black patients keep getting transfusions at higher rates...we want to know why."

When asked what residents struggle with clinically, Dr. Krause notes, "They can get bogged down in the details of a case and miss the big picture. Sometimes it is best to do nothing. They can be overly concerned about following up with labs and consultations and getting notes in the chart. I try to convince them that it is first more important to have a thorough discussion with the patient and family members. Truly listen to your patients...and if something feels wrong, be suspicious. Things can often be worse than they seem."

Regarding his wish list for the trauma division, Dr. Krause notes, "We definitely need additional OR resources, principally OR time. I'm also hoping that we can expand the faculty, with a major goal being a full-time hand surgeon who has an interest in trauma."

On the national front, Dr. Krause just finished a sixyear term on the Orthopaedic Trauma Association (OTA) Evidence-Based Quality, Value and Safety Committee. "I met with numerous colleagues around the country to discuss evidence for what we do and how we can advance our field. In addition, I have just joined the OTA's Artificial Intelligence Task Force and look forward to helping to craft the organization's policies regarding this burgeoning arena."

When not working, Dr. Krause can be found pounding the pavement. "I run every dayabout 15-20 miles per week. My daughter runs as well and I am hoping she will do the Crescent City Classic with me some vear; my son dislikes

running—his

passion is the javelin."



"My wife of 24 years works for the Ogden Museum. Every year we pick up stakes and head to Martha's Vineyard for a summer vacation, carrying on a tradition that my parents started in 1970. Going to Europe is also on our list. We will definitely be visiting Germany as my children and I have obtained our dual German citizenship, something made possible because my mother was a refugee from the Nazis."

Looking down the road Dr. Krause adds, "I take great pride in teaching residents. They are obviously the future, and they need to carry on these techniques for the many patients who will need them in the years to come."

Dr. Krause's last words of wisdom for residents? "You will reach a point in your career where you feel like you have seen most things before, i.e. there is less that will surprise you. Things get better with time."

## Department News & Updates



#### LSU Orthopaedics Welcomes Jennifer Brunious to the department!

Jennifer Brunious graduated from the University of New Orleans with a bachelor's degree in psychology. She is a native of New Orleans, born into a musical family legacy rooted in the spirit and history of New Orleans jazz. Jennifer is the daughter of New

Orleans master jazz trumpeter Wendell Brunious, Sr., named musical director at Preservation Hall in 2023, and granddaughter of John "Picket" Brunious, Sr., a trumpeter who studied at Juilliard and arranged for Billy Eckstine and Cab Calloway. Jennifer completed her undergraduate degree in 2006 at Hunter CUNY, New York City. Her career background includes commercial property and supply chain management. Jennifer comes to LSU from a long tenured executive position in the warehousing and logistics industry. She brings experience in professional administrative and comprehensive support, event coordination, project management, research & analysis, procurement process, and quality assurance. Favorite quote: "You must be the change you wish to see in the world".

## Congratulations to Dr. Rivera on Her Promotion to Director of the MD/PhD Program!

Effective as of August 14, 2024, Dr. Jessica Rivera was promoted to Director of the MD/PhD Program within the School of Graduate Studies. In this role, she will oversee the program, monitor the



academic progress of students, and enforce policies and procedures for trainees and mentors.

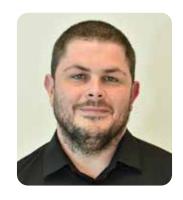
She will remain as an active clinician-scientist in the Department Orthopaedics.

From everyone here at the Department of Orthopaedics we wish Dr. Rivera continued success in her new position.

#### Welcome to Dr. Matthew Scott to the Department of Orthopaedics!

LSU Department of Orthopaedics welcomes Dr. Matthew Scott to the team!

Matthew C. Scott MD was born here in New Orleans and raised nearby in St. Bernard Parish. He received his undergraduate and



graduate degrees from the School of Kinesiology at Louisiana State University, where his doctoral work examined the effects of exercise on bone density and morphology in the context of older adults, diabetes, and ketogenic diets. After receiving his doctoral degree, Dr. Scott accepted a T32 fellowship at Pennington Biomedical Research Center to develop a skillset in molecular biology and cell culture, while exploring the effects of botanicals and the ubiquitin-proteosome system on the balance between osteogenesis and adipogenesis.

Dr. Scott is joining the Orthopaedics department here at LSU Heath to work with Jessica Rivera MD. He will continue developing his skillset in bone biology while working with Dr. Rivera on novel ways to prevent and treat bone infections.

Dr. Scott is married to Kristina Scott, and they have two children, Jonthan and Jean. When not pursuing his scientific interests in bone, Dr. Scott finds purpose in spending time with his wife, raising his two children, exercising, and working on home-improvement projects.

We are very exited to add Dr. Scott to the team.

#### Congratulations to Dr. Rivera on Receiving Her Clinical Research Grant

On July 30th, 2024 the Research Enhancement Program Review Committee recommended Dr. Rivera's Clinical Research Grant proposal for funding. This recommendation was then approved by Dr. Richard DiCarlo and the ammount rewarded for the grant was \$72,375.

The LSU Department Orthopaedics would like to congratulate Dr. Rivera on reciving this grant and, we are exited to hear of the findings she and her team makes with the funds.

### Department News & Updates CONTINUE



LSU Health Student Set to
Complete a Clinical Rotation
With the New Orleans Saints
Sports Medicine Department
In participation with the National
Football League's Diversity
in Sports Medicine Pipeline
Initiative, LSU Health New
Orleans medical student LaMiah
Hall will complete a clinical

rotation with the New Orleans Saints sports medicine department during 2024 training camp.

Hall is a Decatur, Alabama native who attended Xavier from 2015-20 both as an undergraduate and graduate student. She graduated with a bachelor's degree in biology in 2019 and received her Master of Public Health in 2020. Upon coming to New Orleans as a college student, she involved herself in the community by volunteering in the New Orleans nonprofit STEM NOLA, a national leader in the design and delivery of STEM-based activities, programs and events to K-12 students, families, and communities. From 2019-21, Hall served in a position as the organization's operations coordinator and continues to volunteer while continuing her medical studies. She is currently a student at LSU Health Sciences Center School of Medicine in New Orleans, scheduled to graduate in 2025 with an interest in orthopedic surgery. "As a medical student passionate about orthopedic surgery and sports medicine, I am thrilled to participate in the NFL Diversity Program," said Hall. "This program not only allows me to contribute to the health and safety of athletes, but also promotes diversity within the NFL healthcare network. I am eager to be part of this initiative and explore the field of sports medicine through the lens of professional athletics." LSU Orthopaedics would like to congratulate LaMiah on getting this opportunity and wishes her success and growth in this program.

## Congratulations to Dr. Cable and Dr. Chapple on their promotions.

As of May 21, 2024 Dr. Matthew Cable and Dr. Andrew Chapple were approved for promotion by the offices of Steve Nelson, MD, CM, FACP, FCCP. Dr. Cable





was Promoted from Assistant Professor of Clinical Orthopaedics to Associate Professor of Clinical Orthopaedics.

Dr. Chapple was promoted from Assistant Professor to Associate Professor.

This title change is in effect as of July 1, 2024.

On behalf of everyone here at the LSU Department of Orthopaedics, Congratulations to you both.

#### The Rivera Lab Dominates at the Limb Lengthening and Reconstruction Society Annual Meeting

Every year the Limb Lengthening and Reconstruction Society holds an annual meeting for students and researchers to present new findings relating to the field of limb lengthening and reconstruction.

During this years LLRS meeting Osteomyelitis session Dr. Rivera's lab had the opportunity to present 3 of the 5 podium presentations.

These presentations were by:

Matthew Bratton, L3: "Bromelain as a Source of Debridement for Infected Orthopaedic Implants" Grant Lambert, L4: "Bacterial Elimination with Dalbavancin Antibiotic Beads"

Keenan Hurst, L4: "Delivery of Dalbavancin from Antibiotic Bears: Is it Toxic to Bone?"

Megan Vasterling's (L4)'s project "Interprofessional Teams in Limb Lengthening and Deformity Clinics" was also a podium presentation but, as she is on Orthopaedic rotation, the persentation was delivered by Dr. Rivera. Congratulations to the researchers and everyone involved at the Rivera Lab for their success at this event.

#### Dr. Clement Awarded POSNA Special Effort and Excellence Award

LSU Orthopaedics would like to congratulate Dr. Carter Clement on receving his POSNA Special Effort and Excellence Award. Dr. Clement has been an active member of POSNA (Pediatric Orthopedic Society of North America) for 5 Years now, and



everyone here at LSU Orthopaedics are proud of what he has accomplished and wish him continued success.

#### Dr. Zura Awarded \$250,000 Grant with Collaborators for an Athletic Research Center in Louisiana

Dr. Zura in a team headed by Dr. Guillaume Spielmann Associate Professor of Kinesiology (College of Human Sciences & Education) was awared a \$250,000 grant as part of Provost's Fund for Innovation in Research to build the first center for athletic research in Louisiana. The effort expands on growing collaborations between the flagship, LSU Health New Orleans and LSU Athletics, and the historic partnership signed by LSU and Our Lady of the Lake Health in 2022.

#### Congrats to Dr. Chapple and Other LSU Faculty Members on AAOS Highlight in December

Dr. Chapple along with Dr. Dasa and Dr. Krause participated in a study on "Analyzing Utilization Rates of Premium Technologies in Total Knee Arthroplasty between Safety-net Hospitals and Non–safety-net Hospitals."

The study was presented by Stefan D. Sarkovich, BS, of LSU Health Sciences Center during the AAOS annual meeting in 2023 with a featured article posted in December of 2023.

In Memory of Dr. Michael Avery LaSalle, 1969 - 2024



Dr. Michael Avery LaSalle, was born Nov. 11, 1969, and died on March 4, 2024, surrounded by his loving family. Michael was a native of New Iberia and a longtime resident of Houma. He graduated from Catholic High School in 1987. He continued his education at University of Louisiana at Lafayette where he received a Bachelor of Science degree in Pre-Med Biology in 1991. Later that year

he began studying at LSU School of Medicine, married his life-long love Johnetta and they welcomed their first of four children together. He graduated from LSU School of Medicine in 1997 and finished his residency in orthopedic surgery in 2003.

Michael practiced orthopedic surgery in Thibodaux and Houma, where he was adored by his patients. When he wasn't working, Michael could be found fishing, hunting or even building his own boat. He was a loving and compassionate person who put his all into the many projects he started. There was no task, project or hobby too big for him to handle. If you broke

it, he could fix it or build a new one.

Michael never stopped learning. In 2012 he achieved one of his lifelong dreams of becoming a pilot. Being in the air brought him so much joy and freedom. Whether it was becoming a doctor, father, pilot or his recent favorite, a grandfather, he took pride in his work and responsibilities. He raised his children to be strong and independent, but kind people.

#### In Memory of Dr. Adam Perry, 1975-2024

The Department of Orthopaedics and Louisiana Orthopaedic Specialists mourns the loss of a dear leader, partner, mentor, and friend.

The Orthopaedic community has lost a talented, dedicated surgeon, physician, and healer.

In 2008, Dr. Adam Perry founded LOS (The Louisiana Orthopaedic Specialists) after completing his fellowship training in Orthopaedic Sports Medicine in San Antonio. Despite starting the practice alone, Dr. Perry had a clear vision for the future of orthopaedic surgery in Acadiana and guided LOS



from the St. Mary Building on Our Lady of Lourdes's old campus to the current location at Rue Louis XIV, expanding from one to sixteen orthopaedic surgeons. Today, LOS employs over 200 people and offers surgical care for individuals of all ages and body parts, nonoperative orthopedic treatment, physical and occupational therapy, advanced imaging, and afterhours Urgent Care services. One of Dr. Perry's dreams was to establish a specialized surgical hospital for LOS physicians - it is set to open in early 2025. Dr. Perry was a true visionary. He always kept himself updated with the latest techniques and technology in his field. He was a pioneer in performing the anterior total hip replacement, a novel technique that has greatly improved hip replacement and patient recovery. Moreover, Dr. Perry also conducted Acadiana's first ROSA robotic hip replacement. However, Dr. Perry's excellence was not limited to his own performance. He constantly encouraged his partners at LOS to strive for excellence and deliver the best possible outcomes for their patients.

While Dr. Perry loved orthopedics and caring for his patients, his heart belonged to his wife Heidi, and their three sons: Thomas, Gresham, and Drake.

#### Welcome Zahria Phillip as a New Assistant Business Manager



Please welcome Zahria Phillip to the Orthopaedic team. Zahria started today as our new Assistant Business Manager.

A little about her: Zahria Phillip graduated from the University of Louisiana at Lafayette with a bachelor's degree in Business Management. She is currently pursing a master's degree in Healthcare Administration. She

brings experience in event coordination, budgeting, project and account management, recruitment, and a plethora of other business office functions. In her free time, she enjoys reading true crime stories and playing with her dog, Bella.

#### LSU Orthopaedics Has 12 Students Featured in the 2023 Medical Student Research Symposium Hosted By the School of Genetics:

Robert Murray Branstetter IV - "The Utility of Preoperative Inflammatory Marker Collection in Avoiding Unnecessary Postoperative Infection Workup"

Matthew B. Bratton - "Bromelain as a Source of Debridement for Infected Orthopedic Implants" Renee E. Breaux - "Adverse events associated with the presence and treatment of chronic osteomyelitis" Joshua P. Broussard- 1st Place Winner, Mitzie Hano Wittliff Research Award (Freshman/Sophomore Category) - "Evaluating limb regenerating capabilities of osteoprogenitor cells"

Angella S. Chang - "Predictors of chronic osteomyelitis between comorbid conditions versus social determinants of health"

Jose A. Cruz Ayala - "Irisin Attenuates Collagen Deposition in Fibrotic Synoviocytes"

Clifton J. Daigle - "Comparing ACDF Outcomes by Cervical Spine Level: A Single Center Retrospective Study"

Charles Stuart DePaolo - "Comorbid Modifiable Risk Factors Associated With Recurrent Chronic Osteomyelitis"

Collin Allen Toups - "Targeting arthralgia in knee osteoarthritis via non-psychoactive cannabinoid mechanisms"

Thuc D. Truong - "Chronic Osteomyelitis Predictors

with Pattern of Care and Health Services"

#### Dr. Zura and Dr. Rivera Partake in a Study With New England Journal of Medicine on Iodine or Chlorhexidine as a Skin Antisepsis

In a study conducted in a cluster-randomized crossover trial at 25 different hospitals. LSU Orthopaedic's Robert Zura, MD and Jessica Rivera, MD studied the effects of iodine povacrylex chlorhexidine gluconate as skin antisepsis before surgery to repair a fractured limb.

#### Dr. Xu and Dr. Dasa Awarded \$160K Internal Grant



Dr. Xu and Dr. Dasa have received a \$160k internal grant, out of which \$40k is for orthopedics, to develop a new 3-D printing process for creating highly porous bone scaffolds. Currently, we cannot print such scaffolds with such high levels of fidelity and porosity. The new resolution of

printing will be combined with anti-microbial properties to prevent infections for traumatic bone defects filled with the novel high-resolution scaffold.

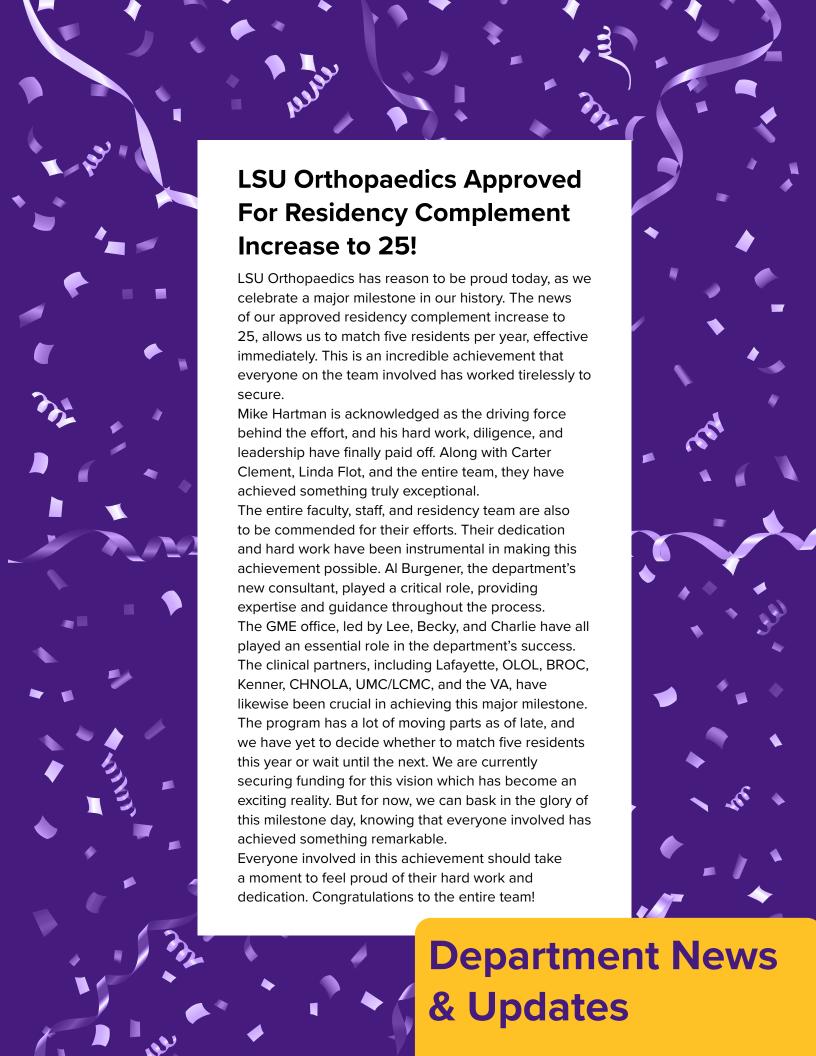


#### Welcome Rachel Matthews.

PhD - Post-Doctoral Fellow
Dr Rachel Matthews is a
Postdoctoral Fellow in the
Department of Orthopaedics
at Louisiana State University
Health Sciences Center. Rachel
earned her PhD in Kinesiology,
specialising in Exercise

Physiology, at Louisiana State University in 2024. Born and raised in the UK, Rachel studied at the University of Bath, where she acquired a BSc (hons) in Sport & Exercise Science and previously worked as a Sports Science Executive for a sports science and nutrition consulting company. Rachel's research focuses on the effects of stress on performance and metabolic function in athletes. She is excited to continue her work in athletic populations and build upon new ways to research and monitor stress.

Congratulation to Dr. Michelle B. Moore, Psy.D on the publication of her book: Sustainable Wellness



## Research News



Vinod Dasa, MD - Director of Research

he research team continues to have a steady output of productivity across a broad range of specialties. Regarding the pediatrics group, their workload has grown significantly and they have brought in a new research coordinator, Armandi Smith, to help manage projects ranging from bundled payments in scoliosis surgery to mechanical testing of novel surgical instruments. Jacob Chaisson (L2), Annie Juneau (L2), Antionette Gladney (L2), Mia Casablat (L2), and Hallie Berndt (L2) are working on a pediatric gunshot fracture study to examine social determinants of health in predicting loss to follow up and healing outcomes. Drs. Carter and Gargiulo are taking the lead and coordinating the majority of research efforts.

Drs. Luis Marrero and Jessica Rivera managed a number of summer research students in their labs who will be presenting their work at the annual LSU research symposium. Dr. Rivera has grown her lab to include two new researchers, Matthew Scott Ph.D. (Post Doc) and John Carolton, an M.D./Ph.D. candidate. Her student mentees had four podium presentations this summer at The Limb Lengthening and Reconstruction Society annual meeting. The Rivera Lab summer students include two individuals selected for the funded summer research program and several students who are enrolled in the MCLIN198 research elective.

Guest M2 medical student Zion Rougue from the University of Rochester and undergraduate summer student Sarah Miller (PI Marrero) are working on a rat model of intramedullary infection, including biofilm staining of explanted intramedullary implants and microCT evaluation of the infection effects on bone. Anna LeJeune (L2), Victoria Bourgeois (L2), and Hallie Berndt (L2) are busy collecting patient reported outcomes (PROs) on social support and perceived self-efficacy from trauma patients of childbearing age to assess the effects of social stresses on these PROs.

Hallie Berndt is also conducting a follow up study on dose and duration of exposure to bromelain solution to disperse biofilm from orthopaedic implants in vitro. Finally, Mark Beebe (L2), Charles "Tres" Hawkins (L2), and David Long are working on cost analysis, social determinants of health as predictors of outcomes, and patient reported perceptions of weight-bearing following operative treatment of ankle fractures.

Dr. Luis Marrero mentored the following students this summer: Mary Cadence Gatterer (Tulane 2nd year medical student) – "Modulation of the Fibrotic Cascade in Skin Disorder with Novel IL-11 Blocking Agent"; Emma Richard (Tulane undergraduate), junior – "Targeted Activation of Cannabinoid 2 Receptor to Attenuate Painful Synovitis"; Molly Chaffee (Tulane undergraduate, junior) - "Evaluating IL-11 and TGFβ1 Distribution Relative to Synovial Fibrosis Status"; Sarah Miller (Tulane undergraduate, junior) – "Evaluating In Vivo Efficacy of Enzymatic Biofilm Dispersal from Orthopaedic Implants" -(Marrero as Co-PI with Rivera). He is also mentoring five medical students: Davis Martin (L4) - honors, ortho; Ryan Schroeder (L4) - honors, ortho; Collin Toups (L3) - honors, ortho; Steven Saweikis (L3) honors, ENT; and Jaeyeon Kweon (L4) – gap year, PM&R. Two of Dr. Marrero's mentees graduated from LSU last year with honors: Jose A. Cruz Ayala - General Surgery (University of Florida), and Lauren Grace Guillot – Anesthesiology (University of Arkansas for Medical Sciences).

#### Meet the Research Team

Research Administrator:

**Ashraf Farhoud** 

**Basic Science:** 

Drs. Jessica Rivera and Luis Marrero

Statistician and data analysis:

Dr. Claudia Leonardi

Project development and manuscript preparation:

Dr. Amy Bronstone

Data Science:

Dr. Anand Paul

Student research committee leadership: Robby Branstetter, Erik Piedy

Two of our researchers, Dr. Andrew Chapple (data science) and Dr. Jennifer Simkin (basic science) have moved on to new career opportunities and we wish them the best. Dr. Krause and I are actively working with the LSU School of Public Health to fill that expertise gap. We have identified Dr. Anand Paul as our new data scientist. We have also hired Ashraf (Ash) Farhoud as our new research administrator to help execute and grow the research strategy.

Collectively, the LSU orthopedics faculty had the second highest number of faculty research mentors at the 20th Annual Medical Student Research Symposium (behind general surgery—despite having 75% fewer faculty than general surgery). Joshua Broussard finished in first place for his study titled, "Evaluating limb regenerating capabilities of osteoprogenitor cells," under his faculty mentor, Dr. Jennifer Simkin.

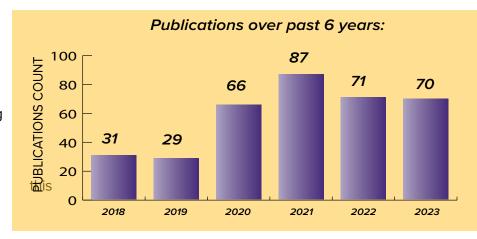
We have one student research fellow year, Miguel Rodriguez, who has been working in both pediatrics and adult basic science with Dr. Clement at CHNOLA and Dr. Luis Marrero.

The Musculoskeletal Student Research Committee at LSU has grown to over 70 members, significantly contributing to the advancement of the orthopedic literature. In the past three months alone, more than 25 new research projects have been initiated, leveraging a mentorship model that pairs junior and senior students. Our student members have showcased their research and findings at numerous prestigious events. Students represented us at the Louisiana Orthopedic Association Annual Meeting with five podium presentations and seven poster presentations. Additionally, students presented at the LSU Orthopedic Surgery Research Day, LSU Research Symposium, Orthopedic Research Society conference, Cancer Advocacy Group of Louisiana NeauxCancer conference, and the Medical Student Orthopedic Society symposium.

The committee remains dedicated to providing students with the information, guidance, and faculty connections necessary to produce high-quality research. Tara Korbal will serve as the Senior Advisor to the Chairman, Robby Branstetter will serve as Chairman, with Erik Piedy as the new as Chair-Elect. Through their efforts, the committee continues its mission to advance orthopedic research and education at LSU.

#### Vinod Dasa, MD

Professor of Clinical Orthopaedics Director of Research





Please visit the research section of the department website for more detailed information.

#### **Meet the Staff**



## Sven Oertel Business Manager

A good day for Sven Oertel, chief administrator of the LSU department of orthopaedics, is when the university regulations are being followed and the stars align to create a department where education, research and patient care are perfectly aligned.

Born in Germany, Oertel visited New Orleans as a high schooler and fell for the city's European feel. "I worked in banking for several years and then made the leap to move to this unusual city. The Europeanness makes me feel right at home, something I have deeply appreciated during my 20+ years here."

Fundamentally, it is Oertel's job to ensure the smooth and efficient operation of the department. "I manage budgets, oversee the administrative staff, and coordinate with faculty and residents to ensure that the department meets its goals of education, research and patient care. And I have to do all of that in the context of adhering to the university's regulations."

Oertel also has a hand in guiding the department's strategic planning process. "I am thrilled to say that we are on a growth trajectory, with new faculty and productive collaboration between stakeholders. As for

the additional resident slot, I participated by ensuring that we are running a tight and efficient department."

Outside of work, Oertel enjoys his family life, which revolves around his three children's sports (wrestling, soccer, and volleyball), family dinners, and board games. Each child brings a unique culinary skill to the table—from sushi rolling to baking.

An avid festival-goer, Oertel's favorite event is the French Quarter Festival, which he praises for its music, food, and the perfect early spring weather. He also loves exploring his wife's native Guatemala, particularly the rural areas, where he finds peace in the natural surroundings. The simplicity of life there, with fresh ingredients and cooking over a wood fire, is a refreshing change from city life.

When visiting his native Germany, Oertel enjoys reconnecting with his fiercely independent mother and old friends. He often misses the country's four distinct seasons—a contrast to the hot and humid climate of New Orleans. Skiing, a favorite family activity, is a welcome escape from the heat of the South.

Oertel has kind words for LSU and our city. "The LSU people couldn't be any better...and New Orleans is phenomenal. I like to say that my work and my city live through me."







## Welcome to the LSU Orthopaedics Family!

#### **School Ties**



Births



Welcome Baby Rohan Jiho Bhandutia into The World Congratulations to Dr. Amit K. Bhandutia and his wife Dr. Janet H. Yoo on the birth of their

child: Rohan Jiho Bhandutia.

Born at 2:16 AM on 3/22/2024 with a weight of 6lb 7.4 oz and length of 20.35 inches.

Welcome Baby Paul Phillips V into The World

Congratulations to Dr. Paul Phillips IV and his wife Dr. Alyce Phillips on the birth of their child: Paul Phillips V.

Born at 5:14 PM on 4/30/2024 with a weight of 8lb 6oz and length of 22 inches.

## Weddings

Dr. Adam Haydel - PGY 5, married Emily Laurent on June 15, 2024





Engagements

Dr. Carlos Monroig-Rivera PGY1 got engaged to Keishla Valentin-Martinez on March 22, 2024

#### **Awards & Accolades**

#### **Awards** 2024 Winners

Jack Winter's Award Charles Hansen, MD



Orthopaedics In-Training Award Marc Schatz, MD



King Award Nathan Redlich, MD



Rooney Award Dr. Amit Bhandutia

D 'Ambrosia Award Alexander R. Vaccaro, MD, PhD, MBA



Research Speaker Award Neil Johannsen, PhD

#### **Award Categories:**

Jack Winter's Award – Graduating resident with the best research

**Orthopaedics In-Training Award** – Graduating resident who has the highest In-Training Score Averaged over 4 years (PGY2-5 year of training)

**King Award** – Teaching award given to resident / Named after Dr. Andrew King (Emeritus Professor & Past Chairman for the Department of Orthopaedics)

Rooney Award – Teaching award given to Faculty / Named after Dr. Ronald Rooney (Former Faculty and advisor/mentor to residents & students)

**D 'Ambrosia Award** – Given to Guest Speaker for Graduation & Research Day / Named after Dr. Robert D. D' Ambrosia (Former Chairman for the Department of Orthopaedics, lectureship/research day named in his honor for his longstanding contribution to the program)

**Research Speaker Award** – Given to Research Faculty Speaker

## Resident News & Updates



#### Daniel Gelvez, M.D. Resident of the Year at UMC

"I didn't know the award existed!" exclaimed Daniel Gelvez, M.D., a PGY-4 recently voted resident of year. "It was an unexpected and welcome thrill to receive this recognition."

Dr. Gelvez won resident of the year at UMC, our flagship Level 1 trauma center where over 900 residents train. He was selected from all residents in all residencies at UMC; this is the first time an orthopedic resident has been honored with this recognition.

Hailing from Fort Worth, Texas, Dr. Gelvez earned his undergraduate degree in Biology from the University of Texas at Dallas and then his medical degree at the University of Texas Southwestern Medical Center. Then, looking for a residency with a large Level 1 trauma center, Dr. Gelvez found LSU.

Asked about his philosophy of patient care, Dr. Gelvez notes, "Regardless of someone's background or injury, they deserve 100% of our effort and the highest level of care possible. I advocate for a detailed approach and take care to explain everything well to patients. We look at their Xrays together and I walk them through my thought process as far as different options for handling their injury. Then we come to a shared decision."

"Frankly, it helps when I show the patients a simplified anatomic drawing complete with details of basic anatomy and instrumentation. The other benefit of drawing is that it helps me fully understand what I will be undertaking with the patient. And Google images is handy for showing patients what their postop Xrays will look like and what is going into their bodies. For example, if someone has a broken femur, showing them an online Xray of an intramedullary nail and screws helps to clarify exactly what we will be doing in surgery and how it fixes the problem."

Dr. Gelvez, who points out that being a native Spanish speaker is a huge advantage, says, "One lesson from residency is that it helps being able to handle criticism. Also, if you are not afraid to do new things and fail, then you will learn quite a bit faster."

When reflecting on things that have changed for him as a 4th year resident, Dr. Gelvez states, "As a 2nd year resident, when you are running around the trauma hall putting on splints and performing reductions it is easy to be overwhelmed and stressed. As you progress, you become more comfortable and look forward to managing things as an upper-level resident. However, as an upper level-resident you have new stresses of teaching and making sure all operative consults are ready to go from afar. I have enjoyed progressing and facing the new challenges that each year of residency provides."

In his limited downtime, Dr. Gelvez enjoys time with his girlfriend and dog, as well as competing in a soccer league, playing tennis and traveling. "I am currently applying to spine fellowships. Although I don't have a strong idea about where I want to go yet, I am looking for a program that is high volume and provides a wide variety of experiences as I believe repetition is the best way to learn."

"Lastly, I am grateful to our attendings. They put a lot of faith in us, and we try to repay them by doing the best we can in all aspects of patient care."

### **Meet the Chiefs**



FEATURING Austin Broussard, M.D.

Medicine was an early calling for Dr. Austin Broussard, a PGY-5 and chief resident born in New Orleans. "I've always been mechanically oriented, and my parents thought I would become an architect or engineer. I soon learned, however, that it was rewarding to connect with people in vulnerable moments and do what I can to help them. Medicine was a perfect match for my personality."

After spending his childhood in Tennessee, Austin Broussard attended the University of Alabama, where he obtained a degree in Biology. He then headed to Georgia for a Masters in Preclinical Sciences at Mercer University. Dr. Broussard's medical school years were spent at the University of Tennessee Health Sciences Center, after which he headed to LSU for residency. "The collegial environment here at LSU is so rare and sets the stage for the amount of autonomy we are afforded early on. I also find the variety of operative experiences here tremendous, including the array of high-energy traumas. I think this program prepares us so well for the future—regardless of subspeciality."

Dr. Broussard, who will be subspecializing in sports medicine, notes, "I have been exposed to some

challenging cases here. It is wonderfully rewarding to make a difference in these patients lives, and I appreciate the mentorship of all of our faculty."

Setting off for a sports medicine fellowship with the esteemed American Sports Medicine Institute in Birmingham next year, Dr. Broussard notes, "Now that I'm in my last year of residency, I know that I will have lifelong memories of my time in New Orleans.





## FEATURING Adam Haydel, M.D.

Chief resident Dr. Adam Haydel, a future hand surgeon and PGY5, selected that subspecialty after reflecting on his father's experience with orthopedic trauma.

"My dad was a carpenter and at one point had a terrible router injury. The entire process involved multiple surgeries followed by several rounds of rehab. Getting an inside view of orthopedic hand surgery laid the groundwork for my future."

After obtaining his undergraduate degree in Science-Business at the University of Notre Dame, Adam Haydel began medical school at LSU. Having heard accolades about the LSU orthopedic residency program, Dr. Haydel saw firsthand how the program was as a fourth-year rotating student. "I wanted a program with strong camaraderie, one where I could obtain operative experience early on, and a place where the faculty stand solidly behind the trainees. LSU fit the bill!"

A fan of the upper extremity, Dr. Haydel notes, "I find the anatomy intriguing because it is so intricate. In addition, I like the pace, which is faster than some other disciplines. Sometimes I am 'bouncing' between rooms and end up doing 8-10 cases per day."

"Our staff and faculty are incomparable and trust us with the intricacies of surgery much earlier than most other training programs. That autonomy, which increases as you get close to the end of the program—truly helps build a sense of confidence as we step out into the world."

A newlywed, Dr. Haydel says, "In June I married my wife, Emily, an ophthalmology fellow at Tulane. We

are thrilled to be able to enjoy the food culture of New Orleans, which is unlike anything you will find anywhere else...and there is always something going on in this city."



"I have enjoyed the positive nature of the faculty-resident interactions, which,

frankly, were much better than some of the other programs I saw. I feel supremely well prepared for my upcoming fellowship in hand and upper extremity surgery at Cleveland Clinic. Unfortunately, during that year, my wife still be here while I am in Ohio."



### **Meet the Chiefs**



the perfect balance of supervised autonomy and truly prepares us for the real world. You have your own clinic with new and established patients who you're able to follow for extended periods of time."

"I'm also glad to take care of a vulnerable population that often doesn't get care. We are frequently the sole providers for Medicaid patients in Lafayette."

Describing the end of residency as "bittersweet," Dr. Miller states, "I just love the people of my state, and I love LSU. But I do feel ready to move on and leave the nest. Next year I will begin a foot and ankle fellowship in Salt Lake City at the University of Utah."

## FEATURING Adam Miller, M.D.,

Born a bit upriver in Gonzalez, Adam is currently a chief resident and aspiring foot and ankle surgeon. After spending his undergraduate and medical school years at LSU, Dr. Miller was open to a residency outside the Boot. "I thought residency would be an ideal opportunity to venture outside Louisiana and explore other states. But I completed several away rotations and didn't see anywhere that could top our program here in New Orleans. For example, when I rotated at programs up north programs, they held 'get to know the medical students' events, but only a few of the residents showed up. In contrast, here at LSU the camaraderie is truly outstanding."

Regarding why he opted for foot and ankle surgery, Dr. Miller notes, "We typically have our foot and ankle rotation as 4th year residents, i.e., by the time you have already decided on a specialty. As luck would have it, I was exposed to foot and ankle as a 2nd year resident. I was fortunate to train under Dr. James Lalonde, an outgoing and talented surgeon who excels at demystifying foot and ankle surgery."

"I have particularly enjoyed my time in Lafayette, one of the most popular rotations amongst residents. It is





## FEATURING Nathan Redlich, M.D.

Back in the day—when there was a 'Bring your kid to work day'—Nathan Redlich had the good fortune to witness surgeries with his father, a general surgeon. "I was enthralled," says Dr. Redlich. "It was intellectually fascinating and so gratifying to see the difference that the right procedure could make in people's lives."

Unlucky to have sports injuries, but lucky enough to shadow his treating orthopedic surgeon, Dr. Redlich, now a chief resident going into spine, states, "I knew I was interested in working with my hands, enjoyed engineering, and was fairly quickly 'sold' on orthopedics."

Originally from Milwaukee, Wisconsin, Dr. Redlich attended Washington University in St. Louis as an

undergraduate, earning a degree in Biology. He then returned to his hometown, undertaking an M.D. at the Medical College of Wisconsin.

And why LSU for residency? "I had been to New Orleans as part of a research



experience, so I got a pre-Covid taste of the city and WOW, what an incredible diversity of people and cultures. It's hard not to love New Orleans. And LSU checked all the boxes as a blue-collar residency experience where I knew I would get the hands-on training I needed to feel confident treating patients in practice. "



Dr. Redlich learned that it's hard to not have unusual medical situations in New Orleans. "Whether someone takes a late-night fall on Bourbon Street, sustains an alligator bite, or gets flown in from an offshore accident, New Orleans always keeps it interesting."



Away from the clinical arena, Dr. Redlich conducts research as well. "We have a talented spine team that comes together annually to build robust literature reviews. In addition, we have several studies at Children's Hospital where we are examining the association between Vitamin D levels and adolescent spinal pathologies."

Having spent his past year applying for fellowships and traveling around the country, he has made his decision: a spine fellowship at Massachusetts General Hospital. "I am genuinely grateful to the LSU faculty who supported my efforts to obtain this fellowship."

### **Resident News**

#### Congrats to our 2025 Fellowship Matches



Dr. Jestin Williams matched with his second fellowship. He will be studying Orthopaedic Oncology at MD Anderson next year and following that will be at the University of Virginia studying Spine, under Director Frank Shen

Dr. Austin Broussard matched with American Sports Medicine Institute in Birmingham, Alabama, where he will be studying ASMI under Jeff Dugas.





Dr. Adam Miller matched with the University of Utah in Salt Lake City, where he will be studying Foot and Ankle under Devon Nixon.

Dr. Nathan Redlich matched with Mass General Brigham and Women's Hospital in Boston, Massachusetts, where he will be studying Spine under Thomas Cha.





Adam Haydel matched with Cleveland Clinic Hand Fellowship in Cleveland, Ohio, where he will be studying under Dr Joseph Styron.





## **Graduation 2024**



#### Left to Right

Charles Hansen, MD Adult Reconstruction University of Wisconsin School of Medicine and Public Health Madison, WI

Mathew Darlow, MD Spine Florida Orthopaedic Institute Tampa, FL

Marc Schatz, MD Sports Medicine and Shoulder Campbell Clinic Orthopaedics Houston, TX

Jestin Williams, MD Oncology University of Texas MD Anderson Cancer Center Houston, TX

#### **Welcome 2024 New Residents**



Shivan Chokshi University of Texas Medical Branch School of Medicine



Yamilet Gonzalez University of Central Florida College of Medicine



Patrick Merkel University of Louisville School of Medicine



Carlos Monroig-Rivera
Ponce Health Sciences
University School of
Medicine



Leland van Deventer Louisiana State University School of Medicine of New Orleans









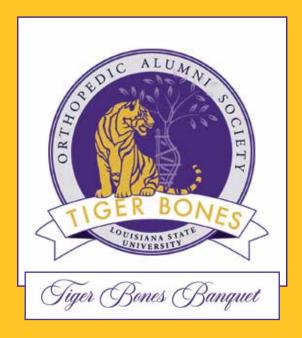








## **Tiger Bones**



#### Save the Date

The Annual Tiger Bones Fund Raising Dinner will be held on March 21, 2025.

Location and registration information will be sent out beginning in early January.

We are looking forward to another successful event.

We are grateful for those who have supported Tiger Bones, the Resident Educational LSU Orthopaedic Resident Fund. Your generosity benefits the LSU Orthopaedic Residency Training Program – having a direct impact on its residents through expanded access to training experiences, technology updates, and educational opportunities that are necessary in a residency training program.

Your online donation can be made at https://give.lsuhealthfoundation.org/tigerbones



OR please mail your check made payable to:

LSU Tiger Bones c/o LSU Health Foundation 2000 Tulane Avenue, 4th Floor

Questions: 504-568-5717

We thank you for your generous support!



Department of **Orthopaedics**