The R Adams Cowley Shock Trauma Center (STC) Orthopaedic Traumatology Research Fellowship boasts a comprehensive research program with a large number of prospective clinical trials, 9 dedicated research personnel and over $30 million of extramural funding from the DoD, PCORI, OTA and OREF. We are proud of our tradition of excellence in the advancement of orthopaedic research.

Our program offers several aspects that we believe are strengths:

1. **Dedicated Clinical Faculty**: Our faculty comprises national experts in all phases of orthopaedic trauma who have dedicated a substantial portion of their lives to the education of fellows and residents. Research fellows will receive mentorship and personalized guidance from leading academic orthopaedic trauma surgeons.

2. **Networking Opportunities**: Shock Trauma is the principal orthopaedic trauma training site for residents from several programs, including the University of Maryland, Columbia University, Mayo Clinic, Union Memorial Hospital, The Walter Reed Army Medical Center, Bethesda Naval Medical Center, Tripler Medical Center, Jefferson and Lennox Hill. We offer one of the nation's premier fellowships in orthopaedic trauma and graduate 5 fellows yearly. There are ample opportunities to network with residents, fellows and attendings from a wide range of programs spanning the entire nation.

3. **Strong Didactic Program**: The STC didactic program involves teaching conferences 5 days a week. The goal of the indication conference is to review every case performed by our fellows and rotating residents. Each Wednesday and Thursday we host a curriculum of traditional lectures, augmented by a curriculum of 10 cadaver dissection sessions, six surgical skills labs and weekly article reviews. Research fellows will also have the opportunity to attend monthly Orthopaedic Grand Rounds and Morbidity & Mortality Conferences.
We are proud of the current state of our research fellowship but are always striving to make improvements. We believe it is this attitude that has helped us to improve upon the strong tradition that has been passed down to us by the faculty who came before us and will allow us to continue to help produce the next generation of leaders in orthopaedic surgery.

Thank you again for your interest in our research fellowship,

THE SHOCK TRAUMA ORTHOPAEDIC FACULTY:

Robert Beer, MD          Christopher Langhammer, MD, PhD          Raymond A. Pensy, MD
Jean-Claude D’Alleyrand, MD  Christopher T. LeBrun, MD          Andrew N. Pollak, MD
W. Andrew Eglseer, MD          Theodore T. Manson, MD          Marcus F. Sciadini, MD
Todd Jaeblon, DO          Jason W. Nascone, MD          Gerard P. Slobogean, MD
Aaron Johnson, MD          Robert V. O’Toole, MD

4. **Large Variety of Research:** We are a large, active clinical research program that typically runs 15 prospective trials at any one time. Our resources include a fully equipped biomechanics laboratory, 6 full-time research coordinators, a medical editor and a prospective trauma database. Research fellows will work on several prospective, randomized clinical trials and have the opportunity to work on many more retrospective longitudinal studies, including self-directed projects and collaborative projects with our orthopaedic trauma fellows.

5. **Academic Conference Presence:** The Division of Orthopaedic Traumatology boasts a strong track record of success for our research projects and a high level of academic production overall. Many of our projects are completed by February 1st of each year, so each research fellow has the opportunity to be included in several research project submissions for presentation at Orthopaedic Trauma Association (OTA) and American Academy of Orthopaedic Surgeons (AAOS) meetings.

6. **High Degree of Productivity:** Our research fellows continue to increase their productivity each year. Research fellows will have the opportunity to be first author on all abstracts and manuscripts they significantly contribute to and should expect at least 8-10 publications or more depending on the individual's motivation and work ethic.

7. **Successful Orthopaedic Match:** This year-long clinical research fellowship will undoubtedly augment the applicant's CV and provide a solid foundation for a future career in academic orthopaedics. All previous medical students have successfully matched into an orthopaedic surgery residency. We fully expect all future applicants to match and we are dedicated to providing our students with a world-class education along with personalized guidance during the match process.

We are proud of the current state of our research fellowship but are always striving to make improvements. We believe it is this attitude that has helped us to improve upon the strong tradition that has been passed down to us by the faculty who came before us and will allow us to continue to help produce the next generation of leaders in orthopaedic surgery.

Thank you again for your interest in our research fellowship,
“STC has given me the opportunity to expand my orthopaedic knowledge and has provided an excellent team-based learning environment. As a current student and aspiring clinician, I have been able to work with patients as well as pursue academic areas of orthopaedic surgery under the guidance of the outstanding staff and physicians at this institution.”

Jared Atchison, Class of 2019
New York Medical College, MS-III, Valhalla, New York

“This orthopaedic research fellowship has had an unparalleled impact on my future as a physician. I am grateful to have been granted the research and clinical opportunities few programs can rival, while working alongside some of the brightest minds in the world of orthopaedic traumatology. The knowledge, experiences and mentors I have gained throughout my time here will undoubtedly prepare me for a successful career in medicine.”

Zachary Hannan, Class of 2019
University of Maryland, BS, College Park, Maryland

“The orthopaedic trauma research fellowship at Shock Trauma is an all-encompassing clinical program. I’m able to interact with a diverse patient population while gaining valuable knowledge about orthopaedic medicine and attaining experience that will give me a head start in my future career as a physician.”

Alexandra Mulliken, Class of 2019
University of Georgia, BS, Athens, Georgia

“Deciding to accept a research fellowship position at Shock Trauma was the smartest decision I have made in my post-graduate academic career. Being immersed in the world of orthopaedic traumatology has developed my fund of knowledge immensely and the research program here is second to none. I recommend applying for this position to any third-year medical student who is intent on matching into orthopaedic surgery.”

Michael Schloss, Class of 2019
Alabama College of Osteopathic Medicine, MS-III, Dothan, Alabama

“The Shock Trauma Center is the best combination of academic and clinical experience, with direct exposure to those on the forefront of orthopaedic surgery both in and out of the operating room. The department is certainly productive from a research standpoint and methodically leads the way in high impact literature. You’ll have no shortage of opportunities to become a better physician and student overall as the team enthusiastically mentors and teaches everyone who is training at this very busy, diverse and high-volume center that is well-known around the world.”

Raza Zaidi, Class of 2019
Cooper Medical School, MS-III, Camden, New Jersey
PREVIOUS RESEARCH FELLOWS

Mitchell Baker (2017-2018)
Pre-fellowship education ............................................. University of Maryland, College Park, B.S. in Biological Sciences
Post-fellowship goal ........................................................ Medical School
Number of publications obtained ................................................................. 15
Current status ................................................................. Eastern Virginia Medical School, MS-I

Daniel Connelly (2016-2018)
Pre-fellowship education ............................................. Liberty University, B.S. in Biomedical Science
Post-fellowship goal .......................................................... Medical School
Number of publications obtained ................................................................. 16
Current status ................................................................. Lock Haven University, PA-S

Marckenley Isaac (2017-2018)
Pre-fellowship education ............................................. Florida State University College of Medicine, MS-III
Post-fellowship goal ........................................................... Orthopaedic Surgery Residency
Number of publications obtained ................................................................. 9
Current status ................................................................. Florida State University College of Medicine, MS-IV

Dimitrius Marinos (2016-2018)
Pre-fellowship education ............................................. University of Maryland, College Park, B.S. in Biological Sciences
Post-fellowship goal .......................................................... Physician Assistant School
Number of publications obtained ................................................................. 10*
Current status ................................................................. University of Maryland School of Medicine, MS-IV

Daniel Masarenhas (2016-2017)
Pre-fellowship education ............................................. University of Maryland School of Medicine, MS-III
Post-fellowship goal ........................................................... Orthopaedic Surgery Residency
Number of publications obtained ................................................................. 16
Current status ................................................................. Rutgers Robert Wood Johnson Orthopaedic Residency, PGY-I

Pre-fellowship education ............................................. University of Maryland, College Park, B.S. in Biological Sciences
Post-fellowship goal .......................................................... Medical School
Number of publications obtained ................................................................. 12
Current status ................................................................. Boston University, M.S. Candidate in Medical Clinical Sciences

Peter Berger (2015-2016)
Pre-fellowship education ............................................. University of Maryland, College Park, B.S. in Biological Sciences
Post-fellowship goal .......................................................... Medical School
Number of publications obtained ................................................................. 12
Current status ................................................................. George Washington School of Medicine and Health Sciences, MS-II

Ryan Montalvo (2015-2016)
Pre-fellowship education ............................................. Liberty University, B.S. in Molecular Biology
Post-fellowship goal .......................................................... PhD in Microbiology
Number of publications obtained ................................................................. 9
Current status ................................................................. University of South Carolina, PhD Candidate in Exercise Science

Carrie Schoonover (2015-2016)
Pre-fellowship education ............................................. Bryn Mawr College, B.S. in Biology
Post-fellowship goal .......................................................... Medical School
Number of publications obtained ................................................................. 13
Current status ................................................................. Lake Erie College of Osteopathic Medicine, MS-III

Max Coale (2014-2015)
Pre-fellowship education ............................................. Princeton University
Post-fellowship goal .......................................................... Medical School
Number of publications obtained ................................................................. 24
Current status ................................................................. University of Maryland School of Medicine, MS-III

Timothy Costales (2014-2015)
Pre-fellowship education ............................................. University of Maryland School of Medicine, MS-III
Post-fellowship goal .......................................................... Orthopaedic Surgery Residency
Number of publications obtained ................................................................. 18
Current status ................................................................. University of Maryland Orthopaedic Residency, PGY-III

Pre-fellowship education ............................................. University of Maryland, College Park, B.S. in Biological Sciences
Post-fellowship goal .......................................................... Medical School
Number of publications obtained ................................................................. 15
Current status ................................................................. Uniformed Services University of the Health Sciences, MS-III

*Total number of publications not yet reported
Research Fellows' Projects: Selected Publications


Research Fellows' Projects: Conference Publications & Presentations


Sciadini MF. Predictors of Unplanned Reoperation after Operative Treatment of Pelvic Ring Injuries. Podium Presentation, American Academy of Orthopaedic Surgeons Annual Meeting. (San Diego, CA 03/17).


- Jester, A, Ruland C, Paryavi E, Coale M, Zerhusen T, O'Toole RV. “Do Patients Know Their Postoperative Plan?: A Prospective Cohort Study of Orthopaedic Trauma Patients.” Podium Presentation, Orthopaedic Trauma Association. (San Diego, CA, 10/15)

- Qadir R, Costales T, Coale M, Zerhusen T, Joshi M, O'Toole RV. “Topical Vancomycin Powder Decreases the Incidence of Staphylococcus aureus Infections in Operatively Treated Fractures.” Podium Presentation, Orthopaedic Trauma Association. (San Diego, CA, 10/15)

OUR ORTHOPAEDIC TRAUMA FACULTY

THEODORE T. MANSON, MD
Associate Professor of Orthopaedics

JASON W. NASCONE, MD
Associate Professor of Orthopaedics

ROBERT BEER, MD
Assistant Professor of Orthopaedics

JEAN-CLAUDE D’ALLEYRAND, MD
Clinical Associate Professor of Orthopaedics (non-adjunct faculty)

ROBERT V. O’TOOLE, MD
Professor and Head, Division of Orthopaedic Traumatology, Fellowship Director

W. ANDREW EGLSEDER, JR, MD
Professor of Orthopaedics

RAYMOND A. PENSY, MD
Associate Professor of Orthopaedics

TODD JAEBLON, DO
Associate Professor of Orthopaedics

ANDREW N. POLLAK, MD
The James Lawrence Kernan Professor and Chair

CHRISTOPHER LANGHAMMER, MD, PHD
Assistant Professor of Orthopaedics

CHRISTOPHER T. LEBRUN, MD
Clinical Assistant Professor of Orthopaedics

MARCUS F. SCIADINI, MD
Professor of Orthopaedics

GERARD SLOBOGEAN, MD
Associate Professor of Orthopaedics

OUR RESEARCH COORDINATORS

YASMIN DEGANI
MPH

HALEY DEMYANOVICH
MPS

BLESSING ENOBUN
MD, MPH

ANDREA HOWE
BS

KATHERINE ORDONIO
MPH

JOSHUA RUDNICKI
BS
Shown left to right:

**GERARD P. SLOBEGEAN, MD • ANDREW N. POLLAK, MD • JASON W. NASCONE, MD • RAYMOND A. PENSY, MD • ROBERT V. O’TOOLE, MD • CHRISTOPHER LANGHAMMER, MD, PHD • CHRISTOPHER T. LE BRUN, MD**

*Not pictured in the group photo above are Robert Beer, MD; Jean-Claude D’Alleyrand, MD; W. Andrew Eglseder, MD; Todd Jaeblon, DO; Aaron Johnson, MD; Theodore T. Manson, MD; and Marcus F. Sciadini, MD.*

**PAST FACULTY**

Romney Andersen, MD; Howard Bathon, MD; Michael Bosse, MD; Christina Boulton, MD; Bruce Browner, MD; Robert Brumback, MD; Andrew Burgess, MD; John Carbone, MD; David Carmack, MD; Carol Copeland, MD; Cullen Griffith, MD; Robert Harris, MD; Alan Jones, MD; Harry Molligan, MD; Greg Osgood, MD; Ebrahim Paryavi, MD, MPH; Attila Poka, MD; Jide Tinubu, MD; Clifford Turen, MD
BALTIMORE FACTS

- **Population** of Baltimore, approximately 600,000.
- **Located** 38 miles north of Washington, DC; 99 miles south of Philadelphia; 188 miles south of New York, NY.
- **Weather**: relatively temperate climate with July being the warmest month (average high 91°F; average low, 73°F) and January being the coolest (average high 44°F; average low, 29°F); average annual snowfall, 20 inches.
- **Education** options include public schools in the city and surrounding counties and many top-tier private schools.
- Strong network of **family support** and easily accessible **family-friendly attractions**.
- Outstanding collection of **dining experiences**.
- Many **outdoor activities** and a **vibrant nightlife**.

EASY ACCESS TO DC, PHILADELPHIA, NEW YORK CITY, AND BEYOND

Baltimore’s geographic location offers close proximity to the cultural, culinary, and natural attractions of the East Coast. Visit Washington, DC, which is an hour away, and enjoy the Smithsonian museums, the National Zoo, and a tour of the White House. Philadelphia, less than 2 hours away, and New York City, just a 3-hour drive away, are exciting destinations that are also easily accessible by train or bus. For summer fun, know that the Eastern Shore and beach communities of Maryland and Delaware are only 2½ hours away. Baltimore/Washington International Thurgood Marshall Airport is 15 minutes from the STC and provides easy access to national and international destinations.
NEARBY ATTRACTIONS, INCLUDING FAMILY-FRIENDLY THINGS TO DO

In Baltimore:
• Inner Harbor
• National Aquarium
• Maryland Science Center
• Port Discovery Children’s Museum
• The Maryland Zoo
• Harbor East (dining and shopping)
• Orioles Park at Camden Yards (Baltimore Orioles)
• M&T Bank Stadium (Baltimore Ravens)
• Babe Ruth Museum
• Visionary Arts Museum
• Walters Art Gallery
• Baltimore Museum of Art
• Hippodrome Theatre (featuring Broadway shows on tour)
• Center Stage (the state theatre of Maryland)
• Fort McHenry (where Francis Scott Key first penned the national anthem)

Nearby:
• Clark’s Elioak Farm (petting farm in Ellicott City)
• Baugher’s Orchards and Farm in Westminster (pick your own)
• NASA’s Goddard Space Flight Center in Greenbelt
• The Capital Wheel in National Harbor
• Jolly Roger Splash Mountain Water Park in Ocean City
• Summers Farm in Frederick
• Assateague Island National Seashore (see the wild ponies run)
• Adventure Sports Center International in McHenry

OUTDOOR ACTIVITIES
Enjoy running, biking, and hiking at these fabulous venues:
• Loch Raven Reservoir
• Patapsco Valley State Park
• Waterfront Promenade

ON CAMPUS

The newly completed Student Center directly across the street from the hospital includes excellent dining, a state-of-the-art gym, and an indoor pool. Membership to this facility is provided to incoming fellows for the year, compliments of the Division.
Visit our web site: http://umm.edu/programs/shock-trauma/services/clinical/orthopaedic