The Poggi Pediatric Orthopaedic Research Fellowship

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Department of Orthopaedic Surgery
Chief - Division of Pediatric Orthopaedics
Professor of Pediatric Orthopaedic Surgery
Johns Hopkins Medicine

John E. Tis, MD
Ranjit A. Varghese, MBBS
R. Jay Lee, MD
Claire Shannon, MD
The Poggi Fellowship Award

**Award Details:**
The Johns Hopkins Poggi Pediatric Orthopaedic Research Scholar Award promotes clinical research by giving extraordinary medical students the opportunity to investigate pertinent topics in clinical orthopaedic research at The Johns Hopkins Children's Center in Baltimore, MD. While there are many year-out programs for medical students to conduct research, this award is rare in that it is a fully funded opportunity specifically designed for students pursuing a career in orthopaedic surgery. The Poggi Fellowship focuses on giving its medical students clinical research opportunities, advanced orthopaedic skills through weekly clinical exposure, and mentoring for residency applications and beyond.

**Department of Pediatric Orthopaedics at The Johns Hopkins Hospital:**
The Johns Hopkins Children's Center offers one of the most comprehensive pediatric medical programs in the country, with more than 92,000 patient visits and nearly 9,000 admissions each year. Johns Hopkins Children Center is consistently ranked among the top children's hospitals in the nation by U.S. News & World Report. The Division of Pediatric Orthopaedics at The Johns Hopkins Children's Center offers a wide variety of state-of-the-art services for children and adolescents in a compassionate and caring environment. Division faculty and staff are leaders in their fields, whether as educators, clinicians, surgeons, or researchers. The division's faculty provide expertise in diagnosing and treating a wide variety of bone-related growth problems, including dwarfism, scoliosis, Marfan Syndrome, and skeletal dysplasias. In addition to its surgical and clinical offerings, the division also has ongoing basic sciences studies on bladder exstrophy and on tibial osteotomies for partial ACL tears.

**Eligibility:**
Applicants should be completing their third year of medical school (in rare circumstances, uniquely qualified students finishing their second year may be considered). Students must be in good academic standing and have an interest in pursuing a career in orthopaedic surgery. The successful applicant will be responsible, self-motivated, intellectually curious, and able to work independently.

**Award Stipend and Benefits:**
The recipient of this award will receive a $30,000 stipend to cover living expenses for the year, as well as travel expenses for national presentations.

**How to Apply:**
Eligible students can apply by filling out the application located online at [http://www.hopkinsmedicine.org/orthopaedic-surgery/education/fellowships/peds-ortho-med-student.html](http://www.hopkinsmedicine.org/orthopaedic-surgery/education/fellowships/peds-ortho-med-student.html), along with sending all supporting documents by email to PoggiFellowship@jhmi.edu. The application opens on November 9, 2018 and closes on **February 8, 2019** at 5pm eastern.

Additional questions may be sent to PoggiFellowship@jhmi.edu.
The Poggi Pediatric Orthopaedic Fellowship’s goal is to launch the careers of tomorrow’s leaders. This funded year of research is designed for medical students between their third and fourth years pursuing a career in orthopaedic surgery. There are three components to the program: research, clinical exposure, and mentoring.

The Poggi Fellow will be involved in retrospective and prospective, single-center and multi-center research projects. The research is designed to answer questions and solve problems in the area of pediatric orthopaedic trauma, sports medicine, spine, hip and hand disorders, patient safety, and healthcare quality and value, as well as medical economics. Students meet with Dr. Sponseller and Pediatric Faculty several times weekly to assure satisfactory supervision and mentorship.

There is a long-established clinical research office in the Pediatric Orthopaedic Surgery Department at The Johns Hopkins Children’s Center. A few of the benefits of doing clinical research in our Department include the following:

• An orthopaedic research coordinator who will help Poggi Fellows design and complete IRBs, adhere to department and Johns Hopkins Research policies, review clinical data, measure X-rays, and complete manuscripts for publication. She offers crucial assistance to new students and researchers who join the department.
• Active and engaged academic/surgical faculty who are well-known in the orthopaedic community.
• Weekly clinical conferences, visiting speakers, monthly journal club, and many other educational events to inspire and educate medical student researchers.
• A high-volume clinical practice (more than 15,000 outpatient visits, 500 in-patient visits, and 1,000 surgical procedures annually) that allows the Poggi Fellows to shadow and gain clinical exposure to inspire research ideas.
• A faculty member with an MBA, who can assist the Poggi Fellows with study design, statistical analysis, and designing healthcare quality, value, and medical economics projects.

Completed projects by Poggi Fellows will be submitted for publication in the best orthopaedic journals and presentations at national and international conferences. In many cases, Poggi Fellows present their research at these national meetings. Additionally, there are several annual Department research meetings and an opportunity to present to the entire Johns Hopkins Pediatric Orthopaedic Division at the year-end orthopaedic research symposium.
The second component of this program includes robust clinical exposure. Poggi Fellows participate actively in the outpatient clinical program. There are weekly outpatient clinics where the Poggi Fellows will be trained and mentored. Poggi Fellows see patients alongside the pediatric orthopaedic faculty, developing mastery of pediatric physical exam of fractures, shoulders, knees, spines, and hips, image interpretation, and decision-making. By the end of the year, Poggi Fellows should function independently in the clinic.

In addition, there is an opportunity to observe surgical procedures. Poggi Fellows are welcomed and encouraged to attend a variety of clinical conferences including didactic lectures, case presentation conferences, Orthopaedic Grand Rounds, and a variety of clinical research journal clubs attended by faculty, students, residents and fellows. With the experience in clinic, observation in the operating room, attendance at conferences, and the interaction with the Johns Hopkins orthopaedic residents and fellows, Poggi Fellows will advance to the next level of their training ahead of those students who have not had such an immersive experience.
Orthopaedic Research at the Johns Hopkins Children’s Center

The Department of Orthopaedic Surgery at the Johns Hopkins Children’s Center has a very active clinical and biomedical research program that offers stimulating opportunities. The Orthopaedics Department also has its own dedicated editorial team and a media specialist. All attending physicians in our program are involved in research and available as mentors.

The Poggi Fellows and Orthopaedic Research:
The Poggi Fellows are a central part of the orthopaedic research team, playing a major role in the department’s research efforts. Poggi Fellows are trained within the Good Clinical Practice (GCP) guidelines including protection of human research subjects, with particular emphasis on pediatrics. Poggi Fellows are guided through the clinical research process from the development of a hypothesis to data collection and manuscript writing. Poggi Fellows have the opportunity to work independently in bringing their projects to completion. It is our intention that multiple publications result from the year’s effort.
Dr. Sponseller is the director of the Division of Orthopaedics and has been at the Johns Hopkins Children’s Center for more than 30 years. He earned his medical degree at the University of Michigan, and he completed residency at the University of Wisconsin. At Boston Children’s Hospital, Dr. Sponseller completed a fellowship in pediatric orthopaedics. More recently, he earned both a Master of Science degree in Business of Medicine and a Master of Business Administration at Johns Hopkins University.

Dr. Sponseller’s special interests include spine deformity, pediatric trauma, Marfan syndrome, bladder extrophy, and hip disorders. He has been awarded the Arthur H. Heune Award for career research by the Pediatric Orthopaedic Society of North America (POSNA). In addition, he has received the Yamaguchi Award for best paper in pediatrics by the American Urological Association (AUA). He has been on the Board of Directors of the Scoliosis Research Society (SRS) and POSNA. He is the Deputy Editor for Pediatrics of the Journal and Bone and Joint Surgeons (JBJS). He has more than 200 publications.

Honored on several occasions for his excellence in teaching and research, Dr. Sponseller was named Outstanding Teacher by the Union Memorial Orthopaedic Program and was twice awarded Teacher of the Year in Orthopaedic Surgery by The Johns Hopkins Hospital. Dr. Sponseller has traveled to Guyana, South America on three separate occasions to volunteer as a pediatric orthopaedic surgeon for Project Dawn while simultaneously teaching medical students, residents, and fellows.
Dr. Tis has been on the Hopkins faculty for nine years, after having done 5 years of active military duty, including tours of Iraq and Afghanistan. His interests include pediatric sports medicine and hip arthroscopy. Dr. Tis earned his medical degree at Georgetown University and completed his residency at Walter Reed Army Medical Center. After his military service, he completed a fellowship in pediatric orthopaedics at Pediatric Orthopaedic and Scoliosis Specialists of San Diego.

Dr. Varghese has been at Hopkins for five years. His interests include cerebral palsy, clubfoot, and hip dysplasia. He earned his medical degree at Kasturba Medical College in Mangalore, India and completed a residency in orthopaedic surgery at Kasturba Medical College in Mangalore, India. He has completed fellowships in pediatric orthopaedic surgery at Kasturba Medical College in India, Gillette Children's Hospital, British Columbia Children's Hospital in Vancouver, and a fellowship in orthopaedic oncology at Massachusetts General Hospital.
Dr. Lee became a faculty member at Johns Hopkins in 2014. His research interests include sports medicine and resident education. Originally from California, he earned his medical degree at the Ohio State University and completed his residency in orthopaedic surgery at Hopkins. He pursued a fellowship in pediatric orthopaedics at the Children’s Hospital of Philadelphia.

Dr. Shannon is the newest member of the department, having joined in the fall of 2017. Her areas of interest within pediatric orthopedics include congenital and childhood deformities such as leg-length discrepancy. Her medical degree is from the University of Rochester in upstate New York. She completed her orthopaedic residency at Case Western Reserve, followed by a fellowship in pediatric orthopaedics at the Hospital for Sick Children in Toronto, Canada.
Selected Abstracts and Presentations

- **Margalit A**, McKean G, Lee RJ, Sponseller PD. BMI Hides the Curve: Using the Scoliometer as a Referral Tool for Patients with Different BMIs. POSNA (Podium) 2016.
- Lee RJ, **Margalit A**, Nduaguba A, Gunderson Mganley T. Collateral Ligament Injuries in the Setting of Anterior Cruciate Ligament (ACL) Tears in the Pediatric Population. POSNA (Podium) 2016

Selected Papers/Publications

- Suresh S, **Margalit A**, Sponseller PD. Evaluating the sagittal spinal and pelvic parameters in Marfan syndrome patients affected with scoliosis. The Spine Journal, Volume 16 , Issue 4 , S84 -S85.

Currently: Orthopaedic Resident at Johns Hopkins
Selected Abstracts and Presentations


Selected Papers/Publications

- Homlar K, MD; Sullivan BT, BS; Sharma S, MD; Biddinger P, MD. Phosphaturic mesenchymal tumor: A single case report discussing diagnostic and therapeutic challenges of tumor induced osteomalacia. Accepted with revisions, AJSP: Reviews and Reports, August 2017.
- Sullivan BT, BS; Margalit A, BS; Garg V, BS; Njoku D, MD; Sponseller PD, MD. Incidence of Fractures from Perioperative Blood Pressure Cuff Use, Tourniquet Use, and Patient Positioning in Osteogenesis Imperfecta. Accepted with revisions, J Pediatr Orthop on August 2017
- Jain A, MD; Sullivan BT, BS; Kuwabara A, MD; Kebaish K, MD; Sponseller PD, MD, MBA. Sacral-Alar-Iliac Fixation in Children with Neuromuscular Scoliosis: Minimum 5-Year Follow-Up. Accepted with revisions, World Neurosurgery on July 2017.
- Stroh DA, MD; Sullivan BT, BS; Shannon BA, MD; Sponseller PD, MD, MBA. Treatment of a Pediatric T-Type Intercondylar Humerus Fracture with Hybrid Percutaneous Pinning and External Fixation: A Case Report. 2017;Epub ahead of print, June 6.
Selected Abstracts and Presentations


- Klyce W, Cottrill E, Nhan DT…. Sponseller PD. A Rabbit Model for Physeal Function in Bladder Exstrophy: Resection of the Pubic Symphysis Leads to Progressive Deformation of the Pelvic Skeleton. Accepted moderated poster presentation at Societies for Pediatric Urology Fall Congress, July 2018. Accepted poster to the AAOS Annual Meeting, June 2018.


Selected Papers/Publications


- Klyce W, Lee RJ. Pediatric Problems and Rehabilitation Geared to the Young Athlete. Baxter’s Foot and Ankle in Sport, 3rd ed. Accepted for publication, Elsevier, February 2018.

- Klyce W, Lee RJ. Osteochondritis Dissecans of the Knee. The 5-Minute Orthopaedic Consult, 3rd ed. Accepted for publication, Lippincott Williams & Wilkins, January 2018.

Currently: MS4 at the Warren Alpert Brown SOM
Derek Nhan, Poggi Fellow
July 2017 – June 2018

Selected Abstracts and Presentations


Selected Papers/Publications


Currently: MS4 at the University of Colorado SOM
Current Poggi Fellows

**Caleb Gottlich**
*2018-2019*

**Medical School:** Johns Hopkins University School of Medicine  
**Undergraduate School and Degree:** Rice University, BA in Chemistry and Psychology  
**Hometown:** Harlingen, Texas

I chose to stay at Hopkins for the Poggi fellowship for the same reasons I chose to come to Hopkins for med school. The institution has the resources to explore a breadth of interests rivaled only by the depth in which faculty delve into those interests. As a fellow here I am in a position to learn from the greatest minds in medicine, and to take what I learn to model my practice in the future.

Outside of the hospital and school I enjoy cooking, baking, sports (watching and playing), and running. I intend on trying many new recipes throughout the year, and training for a new PR for my next marathon.

**Francisco Eguia**
*2018-2019*

**Medical School:** Texas A&M College of Medicine  
**Undergraduate School and Degree:** Texas A&M, BS in Nutritional Science & Biomedical Science and MS in Biomedical Science  
**Hometown:** Dallas, Texas

I have known since coming into medical school that I was interested in pursuing academic medicine, and with this desire I realized taking a year off to do research was a wise decision. After coming to interview, I was ecstatic at the prospect of being invited to spend the year here. I really enjoyed the people that I met when I interviewed, the breadth of opportunity was seemingly endless, and the collaborative and inclusive learning environment seemed very inviting. I didn't even think twice about accepting the offer. Having the ability to collaborate with so many remarkably gifted surgeons and researchers on a daily basis has been truly incredible and I feel lucky to be able to take part in this experience.
Poggi Fellow Travel

'16-17 Poggi Fellow Brian Sullivan, then-chief resident Mostafa El Dafrawy, Chief of Spine Surgery Dr. Khaled Kebaish, and Mayala Gamble, CRNP in Cape Town, South Africa for the annual IMAST meeting

Then-chief resident Jaysson Brooks, Dr. Sponseller, Amy Sponseller, then-resident Amit Jain, and '15-16 Poggi Fellow Adam Margalit at the annual SRS meeting in Prague, Czech Republic
The Johns Hopkins Children’s Center

Johns Hopkins’s state-of-the-art Charlotte R. Bloomberg Children's Center building opened on May 1, 2012. Families and visitors now enter a world designed from the ground up for 21st-century pediatric medicine. From its soaring lobby and large operating rooms—equipped for the most technically complex procedures imaginable—to its spacious patient rooms and welcoming family facilities, the new building provides a hospital experience that matches the world-class medicine it affords.

The Charlotte R. Bloomberg Children’s Center for Pediatric Care features 205 private inpatient rooms including 120 acute care rooms, 85 intensive care rooms, a level 1 pediatric trauma service, pediatric burn services, 10 pediatric operating rooms, multiple playrooms, and a two-story indoor play area for patients.
History of the Department of Orthopaedic Surgery

The Johns Hopkins Department of Orthopaedic Surgery has been caring for patients, fostering innovation, and nurturing orthopaedic leaders for over a century. At the invitation of Dr. William Halsted, Chief of Surgery at Johns Hopkins, Dr. William S. Baer organized the first orthopaedic outpatient clinic in 1900. He graduated his first resident, Lewis C. Spencer, from the Department of Orthopaedic Surgery in 1915. Until his death in 1931, he graduated one resident annually, many of whom became leaders in American orthopaedics. One of Dr. Baer's partners in private practice, George E. Bennett, was appointed orthopaedic surgeon in charge in 1931. By 1937, one-sixth of the 150 surgeons certified as orthopaedists by the American Board of Orthopaedic Surgery had completed their residencies at Johns Hopkins.

A third partner of Drs. Baer and Bennett, Dr. R. W. Johnson, Jr. became the next program chairman. Among his many significant contributions was the organization of the Journal of Bone and Joint Surgery. Dr. Robert A. Robinson was appointed the first full-time professor of Orthopaedic Surgery at Hopkins in 1953. Under Dr. Robinson’s tutelage, the residency program expanded to include additional residents, a research component, and rotations through affiliated hospitals. In 1973, with reorganization of the Department of Surgery into a section of surgical sciences, orthopaedics achieved greater organizational and financial independence with elevation to departmental status. Dr. Lee H. Riley, Jr., was appointed director of the Department in 1979 when Dr. Robinson became professor emeritus. Under Dr. Riley, the program expanded to graduate five residents annually; a new Orthopaedic Center was opened, in 1982; a rotation to the Maryland Institute for Emergency Medical Services was initiated to increase residents' experience with polytrauma; a spine service was added to the Department; and the residency program was approved for an additional year of training.

In April 1991, Dr. Richard Stauffer joined the Department of Orthopaedic Surgery as the orthopaedic surgeon in-chief. Dr. Stauffer’s status as an internationally known orthopaedic surgeon enhanced the department and its involvement with the rest of the Johns Hopkins Medical Institutions. Dr. Stauffer expanded the already outstanding faculty and staff with the addition of world-renowned physicians and researchers. In 1998, Dr. John P. Kostuik, Professor of Spinal Surgery, led the department followed by Dr. Frank J. Frassica, Professor of Orthopaedic Oncology, in 2000. Dr. Frassica served as director until 2011, when Dr. James R. Ficke took over as Department Director after completing work as an orthopaedic surgeon for the United States Army.
The City of Baltimore:

Centrally located on the East Coast, Baltimore combines the advantages of a convenient urban center with access to cultural and athletic activities. A thriving community of young professionals promises important connection.

Baltimore and Medicine:

Baltimore and the Johns Hopkins School of Medicine have a history of a long, productive partnership, fostering medical innovation and leadership over the past two centuries. Hopkins, well-known for a long list of “firsts” including the first residency program, the development of CPR, and the first bone marrow transplant, boasts a diverse and highly touted medical staff.
Baltimore is home to both the Ravens, the two-time Super Bowl champions of the National Football League (NFL), and the Orioles, the three-time World Series champion of Major League Baseball (MLB). The Ravens’ M&T Bank Stadium offers the latest in technology, while Camden Yards is one of the most storied ballparks in professional baseball. The two stadiums are easily accessible from the Johns Hopkins campus via public transportation.

Baltimore’s Inner Harbor is the city’s premier tourist attraction. Here you can find the National Aquarium, Harborplace, Maryland Science Center, and a host of restaurants and shops. There is surely something for everyone to enjoy at the Inner Harbor. Other nearby attractions include Fort McHenry (birthplace of the “Star-Spangled Banner”), Lexington Market, and Walters Art Museum.
Application

Complete the online application on the Poggi Fellowship website by February 8, 2019, at 5pm eastern

Submit the following additional materials and any questions to PoggiFellowship@jhmi.edu

- A letter of recommendation
- Your curriculum vitae
- A pdf of your USMLE Step 1 score