

# The Benjamin Fox Orthopedic Research Fellowship



Division of Orthopedic Surgery at The Children's Hospital of Philadelphia

**John M. Flynn, MD**

Chief of Orthopedic Surgery, CHOP  
Professor of Orthopedic Surgery,  
University of Pennsylvania School of Medicine

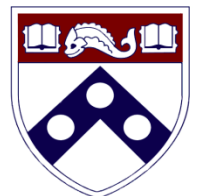
**Theodore J. Ganley, MD**

Director of Sports Medicine Center, CHOP  
Professor of Orthopedic Surgery,  
University of Pennsylvania School of Medicine



**Wudbhav N. Sankar, MD**

Director, Young Adult Hip Preservation Program, CHOP  
Professor of Orthopedic Surgery,  
University of Pennsylvania School of Medicine



# The Benjamin Fox Orthopedic Research Award

## Award Details

The [CHOP Benjamin Fox Orthopedic Research Scholar Award](#) promotes clinical research by giving extraordinary medical students the opportunity to investigate pertinent topics in clinical orthopedic research at The Children's Hospital of Philadelphia. While there are several funded year-out programs for medical school students to conduct research, this award is unique because it is specifically designed for students who are interested in pursuing a career in academic Orthopedic Surgery. The Ben Fox Program focuses on giving the medical student clinical research opportunities, advanced orthopedic skills through weekly clinical exposure, and mentoring for residency applications and beyond.

## Division of Orthopedic Surgery at The Children's Hospital of Philadelphia

The Children's Hospital of Philadelphia is internationally recognized for its pioneering work in pediatric orthopedic patient care, education, and basic and clinical research. CHOP's Orthopedic Surgery at CHOP was again voted the top pediatric orthopedic programs in the nation by *U.S. News & World Report*. CHOP orthopedic surgeons are leaders in their fields – pioneering clinical innovations, writing textbooks, chairing courses and leading regional, national and international organizations in orthopedics. We have 29 attending physicians, each with different subspecialties in pediatric orthopedics.

## Eligibility

Applicants should be completing their **third year of medical school--we only take students between 3rd and 4th years. Step 1 score will be an application advantage.** The student must be in good academic standing and have an interest in pursuing a career in Orthopedic Surgery. The successful applicant will be responsible, motivated, intellectually curious and independent.

## Award Stipend and Benefits

The recipient of this award will receive a \$35,000 stipend to cover living expenses for the year, as well as \$5,000 travel expenses for national presentations.

## How to Apply

Eligible students can apply by visiting the [CHOP Orthopedic website](#). After clicking on the link, please go to the section entitled "Professional Resources for Orthopedics". Under "Other educational programs" the link to the [Benjamin Fox Orthopedic Research Scholar Award](#) can be found. Detailed directions for submission can be found on the application. The deadline for the application is **December 1<sup>st</sup>, 2021**. We recommend submitting an application as soon as possible.

If you have any questions, contact Divya Talwar at [talward@email.chop.edu](mailto:talward@email.chop.edu) and Carol Kenny at [kennyc@email.chop.edu](mailto:kennyc@email.chop.edu)



# The Ben Fox Fellowship Experience



*"The Ben Fox Fellowship is an incredible experience for an uncountable number of reasons. It offers not only an unmatched research experience, but also exposure to a vast array of pediatric orthopaedics. I truly feel that the mentorship and friendship I received during my time at CHOP will continue to shape my future for years to come. Without a doubt, the Ben Fox Fellowship was the defining experience of my time in medical school."*

**Brendan Striano (BFF 2016-2017)**  
**Orthopaedic Surgery Resident, Harvard Medical School**



*The Benjamin Fox Orthopaedic Research Fellowship was the most formative experience of my medical school career. The dedication of the faculty mentors to their research fellows, during the fellowship year and beyond, is unparalleled, and the opportunity to spend an entire year immersed in all aspects of orthopaedics with these world-renowned surgeons and researchers was invaluable both to my education and to furthering my future career as an orthopaedic surgeon.*

**Chrissy Goodbody (BFF 2013-2014)**  
**Resident Graduate, Hospital for Special Surgery**



*My time as a Ben Fox Fellow was the most formative experience of medical school. The support I received to build a knowledge foundation in orthopaedics and pursue meaningful research is surpassed only by faculty members' dedication to serving as lifelong mentors. There is simply no better preparation for orthopaedic residency training.*

**Chris Brusalis (BFF 2015-2016)**  
**Orthopaedic Surgery Resident, Hospital for Special Surgery**

*The Benjamin Fox Fellowship allowed me to explore what "academic medicine" truly is from an insider's perspective. I gained valuable knowledge and fundamental skills that I have translated both into my practice of orthopaedics as a resident and in conducting research. The experience both helped strengthen my application as an orthopaedic candidate and allowed me to form strong, life-long mentorship relationships which have been, and continue to be, truly valuable.*

**Itai Gans (BFF 2012-2013)**  
**Orthopaedic Surgery Resident, Johns Hopkins**



Three generations of Ben Fox Fellows. From left to right: Jigar Gandhi, Nakul Talathi, Alexander Adams (BFF 2017-2018), Neeraj Patel (BFF 2010-2011), and David Ramski (BFF 2011-2012).



# The Benjamin Fox Fellowship – Research

The [Ben Fox Orthopedic Fellowship](#) is a funded year-out research position designed for third year medical students destined for a career in orthopedic surgery. The goal is to launch the careers of tomorrow's leaders in our field.

There are three components to the program: research, clinical exposure and mentoring. For the research focus, the Ben Fox fellows take on several projects, prospective and retrospective, single-center and multi-center, some of which were started prior to their arrival, and some of which will begin during their year. The research is designed to answer questions and solve problems in the area of pediatric orthopedic trauma; sports medicine; spine, hip and hand disorders; patient safety; healthcare quality and value; as well as medical economics. Students meet with Drs. Flynn, Ganley and Sankar several times per week to assure satisfactory supervision and mentorship.

There is a very strong, long established clinical research office in the Division of Orthopedics at The Children's Hospital of Philadelphia. A few of the benefits of doing clinical research in our Division include:

- 8 orthopedic CRCs, Data Analyst and MPH data manager who can help the student design and complete IRB's, extract complex datasets from EMR, adhere to Division and CHOP research policies, review clinical data, measure X-rays, and complete manuscripts for publication. They offer crucial assistance to new students and researchers who join our Division.
- A Research Manager whose advice and support will be invaluable as you navigate the logistical and compliance challenges of 21<sup>st</sup> clinical research.
- Four U.S.-trained clinical fellows and an international research fellow, each of whom has their own individual projects, but with their other obligations, often welcome and mentor medical student collaborators.
- Extremely active academic surgical faculty, with at least 8 internationally-known thought leaders among our 18 full-time surgeons and 6 non-operative surgeons. A faculty member and research manager with a PhD, who can assist the student with study design and statistical analysis.
- Nearly 200+ open clinical IRBs, including databases for several national multicenter research groups, ripe for utilization for high-powered collaborative projects.
- Daily clinical conferences, visiting speakers, quarterly Journal Club and many other educational events to inspire and educate medical student researchers.
- A high-volume clinical practice (more than >65,000 outpatient visits, and >4,000 surgical procedures per year) that allows the student to shadow and gain clinical exposure to inspire research ideas.

Completed projects by Benjamin Fox fellows are published in the best orthopedic journals and are presented at the American Academy of Orthopaedic Surgeons, the Scoliosis Research Society, the American Academy Society for Orthopaedic Sports Medicine, the Pediatric Orthopaedic Society of North America and the American Academy of Pediatrics. In many cases, whenever permissible and possible, the Benjamin Fox Fellows present their research at these national meetings. There are several Division research meetings per year and an opportunity to present research to the entire CHOP Orthopedic Division at the year-end orthopedic research symposium.

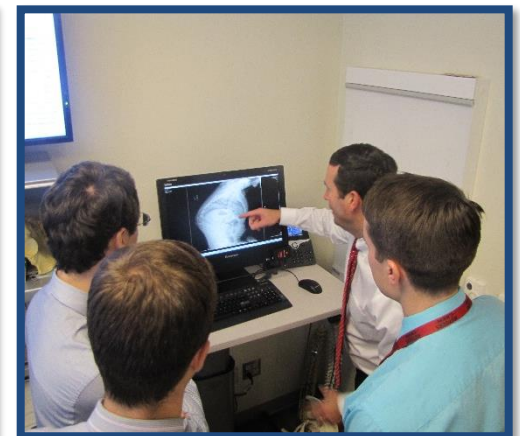
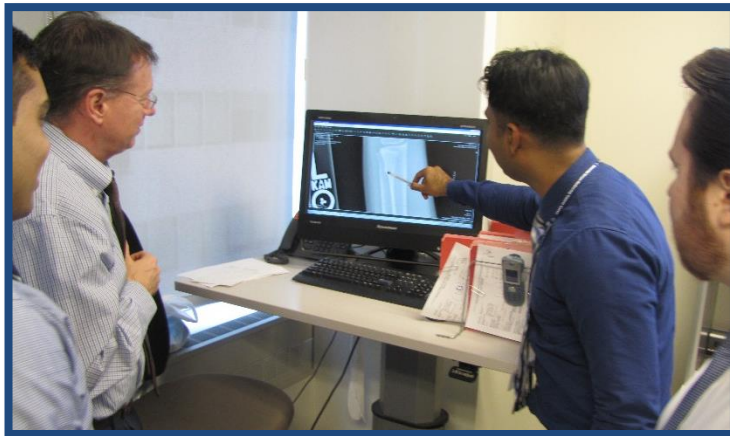
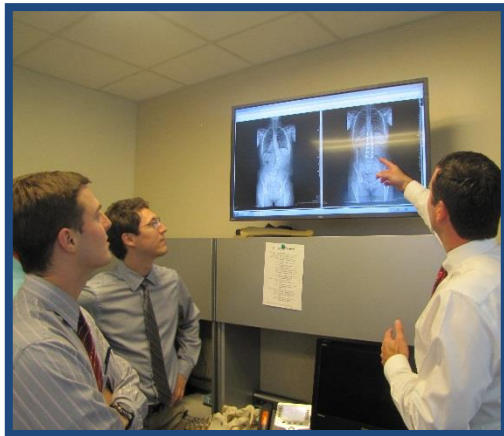




# The Benjamin Fox Fellowship – Clinical Orthopedics

The second aspect of this program is strong clinical exposure. The Benjamin Fox Fellow participates actively in the outpatient clinical program in the Division of Orthopedics at CHOP. There are weekly outpatient clinics where the Benjamin Fox Fellow will be trained and mentored to participate in trauma and sports clinics. Weekly, the Benjamin Fox Fellow sees patients alongside Dr. Flynn, Dr. Ganley or Dr. Sankar, developing mastery of pediatric physical exam of the shoulder, knee, fractures, spine and hip, image interpretation and decision making. Additionally, Fellows participate in surgeon-of-the-day clinics, specifically gaining experience in the evaluation of patients with urgent injuries. Typically, by the end of the year, the Benjamin Fox Fellow functions at a level above a senior resident.

There are also opportunities to observe surgical procedures in the operating room. In addition, the Benjamin Fox Fellows are welcomed and encouraged to attend a very rich variety of clinical conferences in the Division of Orthopedic Surgery at CHOP, including didactic lectures, a weekly case presentation conference, University of Pennsylvania Orthopedic Grand Rounds every Thursday morning, and a quarterly clinical research journal club attended by all faculty, students, residents and fellows. With the experience in clinic, observation in the operating room, attendance of conferences, and the interaction with the University of Pennsylvania orthopedic residents and fellows, the year-out medical students advances to the next level of training far ahead of those students who have spent the year just doing clinical rotations.



# Mentors



**Theodore J. Ganley, MD**

Dr. Ganley has been an attending surgeon at CHOP for over 20 years. He is Director of The Sports Medicine and Performance Center at The Children's Hospital of Philadelphia. Dr. Ganley completed a sports medicine fellowship at The Graduate Hospital, in affiliation with The University of Pennsylvania, and completed a second fellowship in pediatric orthopedics at CHOP. He is one of a small group of surgeons in the country with a primary focus on sports and trauma in the young athlete. He is a member of several multicenter research groups, is a co-founding member of the Research in Osteochondritis Dissecans of the Knee (ROCK) group, and a member of the Multicenter ACL Revision Study (MARS) group and Pediatric ACL: Understanding Treatment Outcomes (PLUTO).

Dr. Ganley has published more than 150 peer-reviewed scientific articles, reviews or textbook chapters, and was editor of a Clinics in Sports Medicine book on ACL injury in the young athlete this past year. He lectures nationally and internationally on ACL reconstruction, OCD lesions, sports and trauma in the young athlete. He served on executive committee for American Academy of Pediatrics. Dr. Ganley is also Program Chair for the Philadelphia Orthopaedic Society, second Vice President for Pediatric Research in Sports Medicine (PRISM) and serves on the POSNA Evidence Based Practice Committee.

Dr. Ganley is married and has five children. He enjoys the academic aspects of clinical medicine and working with the Ben Fox Fellows.



# Mentors



**John M. Flynn, MD**

[Dr. Flynn](#) joined the CHOP team in 1996, after completing 18 months of Fellowship at Boston Children's and DuPont. After 10 years as Associate Chief, he became Orthopaedics Division Chief in 2014.

Dr. Flynn's clinical focus includes spine deformity, early onset scoliosis/thoracic insufficiency, fractures, and pre-school hip disorders. He initiated the CHOP programs for hip preservation, TIS/VEPTR, MAGEC rods, Mehta casting and image guided navigation for pedicle screw placement. He is the author of over 250 peer reviewed papers, reviews and chapters, and editor of the seminal texts in pediatric orthopaedics: Lovell and Winter's Pediatric Orthopaedics, Rockwood's Fractures in Children, Operative Techniques in Pediatric Orthopaedics, as well as OKU 10 and Staying out of Trouble in Pediatric Orthopaedics. He is on the Board of Directors for the Children's Spine Foundation.

Dr. Flynn served as the President of the Pediatric Orthopaedic Society of North America in 2013-2014, and was Chair of the International Pediatric Orthopaedic Symposium. He is currently a Director, American Board of Orthopaedic Surgery.

A winner of multiple Penn teaching awards, he lectures nationally and internationally on management of spinal disorders, pediatric fracture care, safety and value in spine care, and work-life integration for surgeons. His primary passion, however, is family: his wife Mary and four kids—Erin, Colleen, John and Kelly



# Mentors



**Wudbhav N. Sankar,  
MD**

[Dr. Sankar](#) has been an orthopedic surgeon at CHOP for more than five years, and is director of the young adult hip preservation program. He is a graduate of Cornell University and the University of Pennsylvania School of Medicine. After finishing his orthopedic residency at the University of Pennsylvania, Dr. Sankar completed three additional fellowships in the areas of pediatric orthopedic surgery and adolescent hip surgery at Children's Hospital Los Angeles, the Shriners Hospitals for Children in Los Angeles, and Boston Children's Hospital. He is one of a small group of surgeons in the country with special expertise in complex adolescent and young adult hip reconstruction.

Dr. Sankar is a member of several multicenter research groups including the International Perthes Study Group, the International Hip Dysplasia Institute, and the Academic Network of Conservational Hip Outcomes Research (ANCHOR). In 2012, Dr. Sankar received the Young Investigator Award at the AAOS/ORS Femoroacetabular impingement research symposium. He currently serves as medical director for International Hip Dysplasia Institute.

Dr. Sankar has published more than 100 peer-reviewed scientific articles, reviews or textbook chapters, and co-edits the pediatric sub-section of *Operative Techniques in Orthopaedic Surgery*, along with Dr. Flynn. Dr. Sankar is an at-large member of the board of directors of the Pediatric Orthopaedic Society of North America (POSNA).

Dr. Sankar is married and has three children.



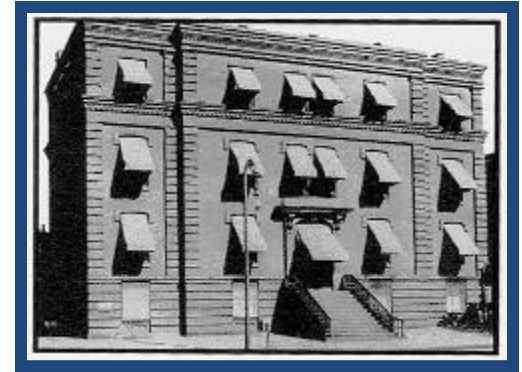


# The Children's Hospital of Philadelphia

The Children's Hospital of Philadelphia (CHOP) is not only the oldest pediatric hospital in the United States, it is also one of the top-ranked children's hospitals in the world. In addition to providing excellent patient care, CHOP excels at research by devising and committing to projects aimed at developing cures for chronic and fatal pediatric illnesses and disorders. Because awareness of disease is important in the prevention of illness, CHOP also strives to educate the public – not only on ways to prevent disease – but also on ways to support independent living for those with debilitating conditions.

CHOP was founded in 1855, when Francis West Lewis MD, inspired by his visit to the Great Ormond Street Hospital for Sick Children in London, built the first pediatric hospital in the United States. In collaboration with three other doctors, the team constructed a pediatric center that included 12 beds and a dispensary. A year later, the hospital's physicians treated 67 inpatients and 306 clinical patients. Since its first year, the hospital has relocated its building on three separate occasions. On June 23<sup>rd</sup>, 1974, the hospital settled at 34<sup>th</sup> Street and Civic Center Boulevard, its current location. In 1976, C. Everett Koop, MD, not only established the pediatric surgical division, but also performed ground-breaking procedures that brought notoriety to the hospital.

CHOP has earned recognition as the nation's best pediatric hospital from two respected publications: [\*U.S. News & World Report\*](#) named CHOP No. 3 on its 2019-2020 Honor Roll of Best Children's Hospitals in the nation; and [\*Parents magazine\*](#) named CHOP No. 1 on its 2019 list of Top 10 Best Children's Hospitals. To learn more, see [Why Choose CHOP?](#)



# History of the Division



Jesse Nicholson, MD



Stanley Chung, MD



Hugh Watts, MD



Denis Drummond, MD



John P. Dormans, MD



John M. Flynn, MD

In 1889, with the financial help of the Ladies' Auxiliary, DeForest Willard organized the first orthopedic children's ward at the University of Pennsylvania. Since then, The Children's Hospital of Philadelphia has seen six Chiefs of Orthopedic Surgery. The first, Charles Merrill, MD, was instated as Chief, but unfortunately died one month later.

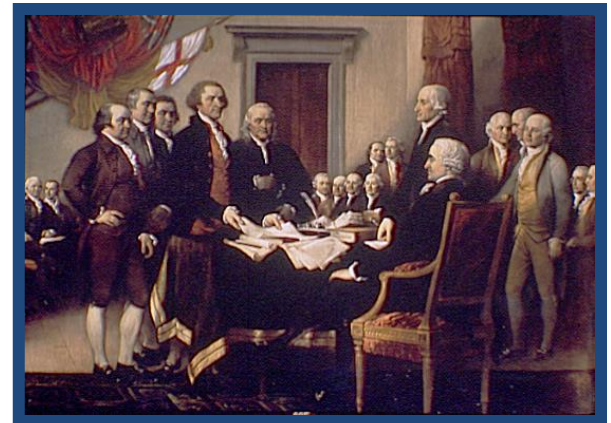
In 1936, Jesse Nicholson, MD, replaced Merrill as Chief of Orthopedic Surgery. Nicholson's position as Chief ended in 1968, and he was succeeded six years later by Stanley Chung, MD, who served from 1974-1979. In 1979, Hugh Watts, MD, took over as Division Chief. Six years later, Denis Drummond, MD, succeeded Dr. Watts, and served from 1985-1996. John P. Dormans, MD led the Division from 1996-2014. Subsequently Dr. Flynn succeeded him as Chief of Orthopedic Surgery.



# The City of Philadelphia

## A Brief History of Philadelphia

- In 1682, William Penn bought land from the local Lenape Indian village of Shackamaxon.
- In 1701, Penn issued a Charter, establishing Philadelphia as a city.
- From 1790 to 1800, Philadelphia served as the capital of the United States of America.
- As businesses boomed within this area, the population reached two million residents in 1950.
- Today, Philadelphia remains a commercial, educational, and a diverse center of culture, art, architecture, cuisine, and sports.



## Philadelphia and Medicine

- Philadelphia has become an important center for medicine, an association that the city has had since its colonial period.
- Philadelphia is home to the first hospital in the British North American colonies.
- Philadelphia is also the home of the first medical school, located today at the University of Pennsylvania.
- The first pediatric hospital in the United States was established in Philadelphia in 1855 (The Children's Hospital of Philadelphia).
- Major hospitals within Philadelphia are also affiliated with Temple University School of Medicine, Drexel University College of Medicine, Thomas Jefferson University, and Philadelphia College of Osteopathic Medicine.



# The City of Philadelphia

## Ideal Location

- Philadelphia is located ideally between many popular attractions on the northeast coast of the United States.
- As indicated on the map to the right, Philadelphia (point A) is a short distance from New York City (point B - 95 miles), the Pocono Mountains (point C - 135 miles), Cape May (point D - 92 miles), and Baltimore (point E - 100 miles).
- The area surrounding Philadelphia has much to offer: whether it's seeing Broadway shows in New York, skiing in the Pocono's, relaxing on the beach in Cape May, or visiting Baltimore's Inner Harbor to catch and dine on some of the best crab on the east coast, the Philadelphia area is brimming with things to see, do, and experience.



## Art and Food

- Philadelphia is home to many museums, including the Philadelphia Museum of Art, one of the largest art museums in the United States; the Pennsylvania Academy of Fine Arts; the Rodin Museum, which boasts the largest collection of works by Auguste Rodin outside of France; and the Philadelphia Sketch Club.
- Annual events include film festivals and parades, the most well-known being the New Year's Day Mummers Parade.
- The city is also known for its food – from hoagies to cheesesteaks, scrapple to soft pretzels, water ice to Tastykakes.

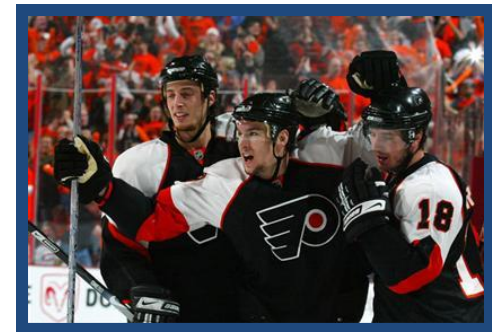
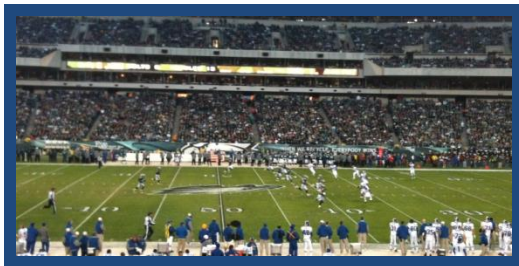




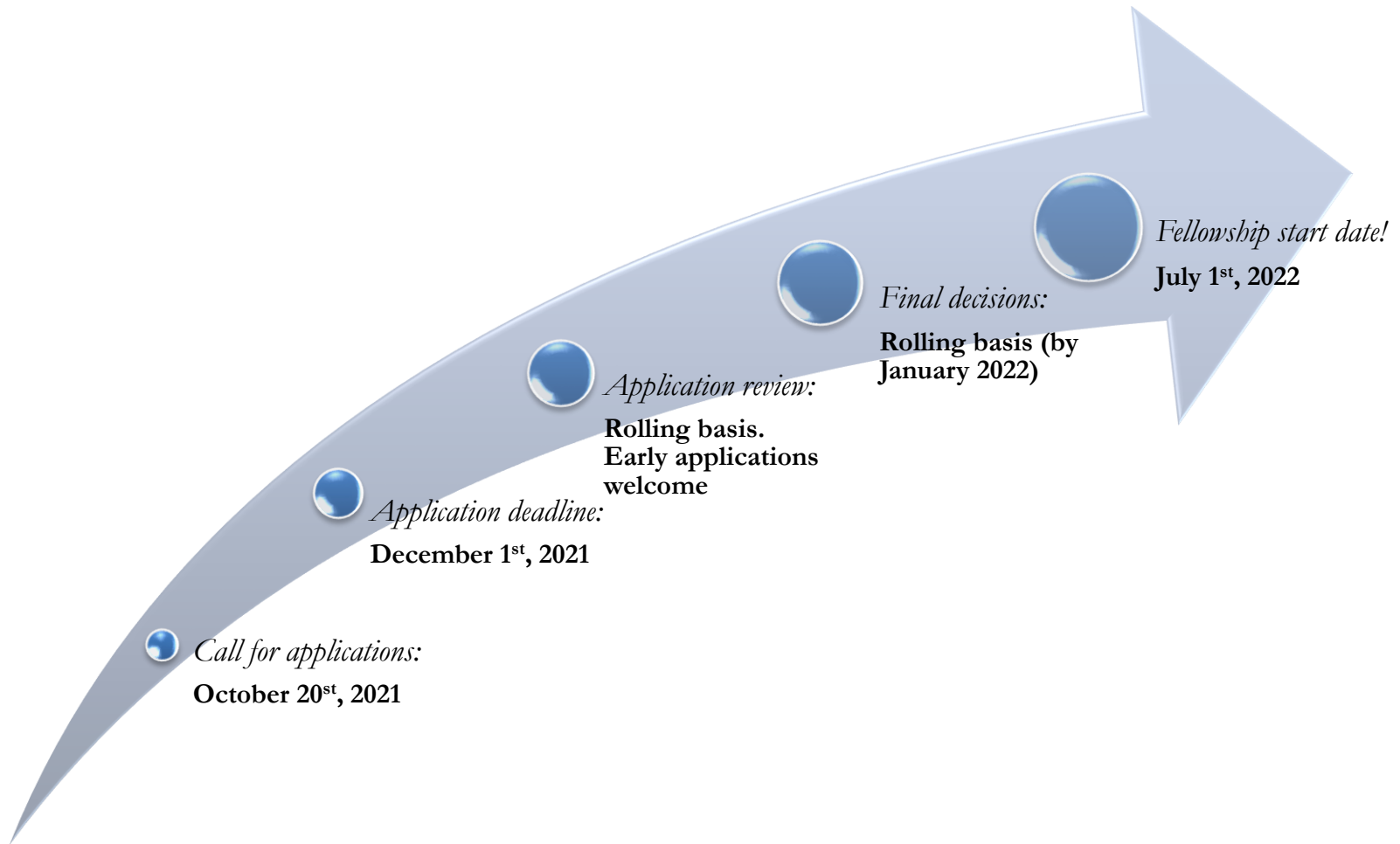
# The City of Philadelphia

## Sports

- Philadelphia is one of 13 cities in the nation to have all four major sports teams: the Philadelphia Eagles of the National Football League, the Philadelphia Flyers of the National Hockey League, the Philadelphia Phillies of Major League Baseball, and the 76ers of the National Basketball Association.
- Sporting events such as the Penn Relays, the Philadelphia Marathon, the Broad Street Run, and the Aberdeen Dad Vail® Regatta attract professional, semi-professional, and elite amateur teams and individuals from all over the country to the city as well.



# Application Timeline



# Current Ben Fox Fellows



**Sara Kiani**  
2021-2022

**Sara Kiani** grew up in Upper Saddle River, New Jersey. She attended Yale University and graduated Summa Cum Laude with a degree in Psychology and Spanish and a certificate in Global Health in 2017. During college she worked as an EMT and was the captain of the Yale Women's Club Lacrosse team and was involved in global health initiatives and research on the impact of drug and alcohol use disorders on HIV and other health outcomes. Upon graduation she worked as a Health Policy Fellow at New America before attending the Icahn School of Medicine at Mount Sinai. During her first three years of medical school, she pursued a Master of Public Health degree and conducted research on value-based care in orthopedics. Outside of the classroom, she enjoys baking, snowboarding, and surfing. Her current research interests at CHOP include the impact of COVID-19 on sports injuries, treatment of congenital lower limb deformities and developmental dysplasia of the hip, and global pediatric orthopedics.

Icahn School of Medicine at Mount  
Sinai



# Current Ben Fox Fellows



**Patrick England**

2021-2022

Washington University School of  
Medicine in St. Louis.

**Patrick England** grew up in Minneapolis, Minnesota. He received his Bachelor of Arts in Biology from Carleton College in 2016. In college, Patrick was a two-year captain of the Men's Varsity Basketball team, managed the school's intramural sports leagues, and participated in the NIH BP-Endure Neuroscience program. He then took two gap years to work as a medical scribe in orthopedics prior to matriculating to Washington University School of Medicine in St. Louis. While there he was on the SNMA Executive Board and acted as the Program Director for mentorship and outreach programs. He also conducted orthopedics research that focused on imaging surveillance and patient reported outcomes in patients with sarcoma. His current research interests at CHOP include discrimination in fracture treatment, surgical complications of DDH, prognostic imaging surveillance of Perthes disease, and dynamic risk factors for ACL versus tibial spine injuries. Outside of research he enjoys spending time with his wife, Bridget, and poodle, Lois.





# Current Ben Fox Fellows



**Nathan Houlihan**

2021-2022

Sidney Kimmel Medical College at  
Thomas Jefferson University

**Nathan Houlihan** grew up outside Chicago in Wheaton, IL. In 2018, he earned his Bachelor of Science with Magna Cum Laude honors from Wheaton College, where he studied biology. In college, Nathan worked as Editor-in-Chief of a satirical campus newspaper, spent 4 years teaching chess to students K-8th grade, and ran a youth basketball program. He recently completed his third year of medical school at Thomas Jefferson University where he is a member of both the Hobart Armory Hare Medical Honor Society and the George McClellan Surgical Honor society. At CHOP, he is researching a broad range of topics including: applications for 3D ultrasound in infants with developmental hip dysplasia, fracture patterns in osteogenesis imperfecta, the epidemiology of orthopedic injuries during the COVID-19 pandemic, and much more. Nathan is the second of four brothers and comes from a family of chocolatiers. Nathan is married and his wife, Taylor, is also studying medicine at Thomas Jefferson University.



# Prior Ben Fox Fellows

## Selected Publications and Presentations



**Mitchell Johnson**  
2020-2021

University of Pennsylvania School  
of Medicine

Joshua Bram, **Mitchell Johnson**, Lacey Magee, Nishank Mehta, Faris Fazal, Keith Baldwin, Jake Riley, Apurva Shah. Where have all the fractures gone? The epidemiology of pediatric fractures during the COVID-19 pandemic. *Journal of Pediatric Orthopaedics*, 2020 Sep;40(8):373-379.

**Mitchell A. Johnson**, John M. Flynn, Jason B. Anari, Shivani Gohel, Patrick J. Cahill, Jennifer J. Winell, and Keith D. Baldwin. Risk of Scoliosis Progression in Nonoperatively Treated Adolescent Idiopathic Scoliosis Based on Skeletal Maturity. *Journal of Pediatric Orthopaedics* 41, no. 9 (2021): 543-548.

**Mitchell A. Johnson**, Shivani Gohel, Stuart L. Mitchell, John Jack M. Flynn, and Keith D. Baldwin. "Entire-spine Magnetic Resonance Imaging Findings and Costs in Children With Presumed Adolescent Idiopathic Scoliosis." *Journal of Pediatric Orthopaedics* (2021).

Max Cornell, Ryan Guzek, **Mitchell A. Johnson**, Tomasina Leska, Soroush Baghdadi, ROCK Study Group, Theodore J. Ganley. Genetic Contributions to Osteochondritis Dissecans: A Systematic Review. *University of Pennsylvania Orthopaedic Journal*. June 2021.

**Mitchell A. Johnson**, Hillary Mulvey, Andrew Parambath, Jason B. Anari, Lindley B. Wall, and Apurva S. Shah. A Gender Gap in Publishing? Understanding the Glass Ceiling in Pediatric Orthopaedic Surgery. *Journal of Pediatric Orthopaedics* 41, no. 7 (2021): e484-e488.

**Mitchell A. Johnson**, Alexa J. Karkenny, Alexandre Arkader, and Richard S. Davidson. Dissociation of a femoral intramedullary magnetic lengthening nail during routine hardware removal: a case report. *JBJS Case Connector* 11, no. 1 (2021): e20.

**Mitchell A. Johnson**, Kenny Halloran, Connor Carpenter, Nicolas Pascual-Leone, Andrew Parambath, Jigyasa Sharma, Ryan Seltzer, Henry B. Ellis, Kevin G. Shea, and Theodore J. Ganley. "Changes in pediatric sports injury presentation during the CoViD-19 pandemic: a multicenter analysis." *Orthopaedic journal of sports medicine* 9, no. 4 (2021): 23259671211010826.



# Prior Ben Fox Fellows

## Selected Publications and Presentations



**Ryan Guzek**

2020-2021

Sidney Kimmel Medical College at  
Thomas Jefferson University

Max Cornell, **Ryan Guzek**, Mitchell Johnson, Tomasina Leska, Soroush Baghadi, ROCK Study Group, Theodore J. Ganley. Genetic Contributions to Osteochondritis Dissecans: A Systematic Review. *University of Pennsylvania Orthopaedic Journal*. June 2021.

**Ryan Guzek**, Max Cornell, Jie Nguyen, Theodore J. Ganley. Juvenile Osteochondritis Dissecans of the Knee Shows Early Evidence of Radiologic Irregularity. *University of Pennsylvania Orthopaedic Journal*. June 2021.

**Ryan H. Guzek**, Stuart L. Mitchell, Arielle R. Krakow, Nanjundappa S. Harshavardhana, Eric J. Sarkissian, and John M. Flynn. Morphometric analysis of the proximal thoracic pedicles in Lenke II and IV adolescent idiopathic scoliosis: an evaluation of the feasibility for pedicle screw insertion. *Spine Deformity* (2021): 1-8.

**Ryan Guzek**, Kathleen Harwood, David Isaacs, Divya Talwar, John T. Lawrence, MEMO Study Group. AP, Axial, and External Oblique Views Reliably Measure Medial Epicondyle Displacement Using Corresponding Point Methodology but the Measurements Only Moderate Correlate with True Displacement as Measured by CT Scan. *Accepted, Journal of Pediatric Orthopaedics*.

Julianna Lee, **Ryan Guzek**, Neal Shah, J. Todd Lawrence, Theodore J. Ganley, Apurva S. Shah. How Much Will My Child's ACL Reconstruction Cost? Availability and Variability of Price Estimates for Anterior Cruciate Ligament Reconstruction in the United States. Paper presentation at Pediatric Orthopaedic Society of North America, Dallas, TX, May 2021.

**Ryan Guzek**, Robert F. Murphy, Christina K. Hardesty, John B. Emans, Sumeet Garg, John T. Smith, George H. Thompson, Benjamin D. Roye, Michael P. Glotzbecker, Peter F. Sturm, Brian D. Snyder, Selina C. Poon, Connie Poe-Kochert, Jason B. Anari. Characterizing Mortality in Patients with Early Onset Scoliosis. Paper presentation at Scoliosis Research Society, St. Louis, MO, September 2021.

**Ryan Guzek**, Mitchell A. Johnson, Arielle R. Krakow, Lacey Magee, Lori Jia, Keith Baldwin, Jennifer J. Winell, John (Jack) M. Flynn. Could Have Tethered, Glad We Didn't: A Review of AIS Patients Meeting Anterior Vertebral Body Tethering Criteria While Bracing. Paper presentation at Scoliosis Research Society, St. Louis, MO, September 2021.



# Prior Ben Fox Fellows

## Selected Publications and Presentations



**Max Cornell**

2020-2021

Geisinger School of Medicine

**Max Cornell**, Ryan Guzek, Mitchell Johnson, Tomasina Leska, Soroush Baghadi, ROCK Study Group, Theodore J. Ganley. Genetic Contributions to Osteochondritis Dissecans: A Systematic Review. *University of Pennsylvania Orthopaedic Journal*. June 2021.

Ryan Guzek, **Max Cornell**, Jie Nguyen, Theodore J. Ganley. Juvenile Osteochondritis Dissecans of the Knee Shows Early Evidence of Radiologic Irregularity. *University of Pennsylvania Orthopaedic Journal*. June 2021.

Tomasina Leska, Soroush Baghadi, **Max Cornell**, Theodore J. Ganley. SutureBridge Transosseous Fixation of Complete Radial Tears: A Philosophical Approach. *University of Pennsylvania Orthopaedic Journal*. June 2021.

Ryan Guzek; **Max Cornell**; Jie Nguyen; Alexandre Arkader. Diffuse Tenosynovial Giant Cell Tumors: Case Series From a Large Pediatric Orthopaedic Hospital. ePoster presentation at Pediatric Orthopaedic Society of North America, Dallas, TX, May 2021.





# Prior Ben Fox Fellows



**Joshua Bram**

2019-2020

**Current position:**

Orthopedic Surgery Resident, Hospital For Special Surgery



**Nishank Mehta**

2019-2020

**Current position:**

Orthopedic Surgery Resident, Stony Brook University



**Lacey Magee**

2019-2020

**Current position:**

ENT resident, Cleveland Clinic



**Scott LaValva**

2018-2019

**Current position:**

Orthopedic Surgery Resident, Hospital For Special Surgery



**Blake Meza**

2018-2019

**Current position:**

Orthopedic Surgery Resident, Hospital For Special Surgery



**Ronit Shah**

2018-2019

**Current position:**

Orthopedic Surgery Resident, Temple University



**Alexander Adams**

2017-2018

**Current position:**

Orthopedic Surgery Resident, Thomas Jefferson University



**Nakul (Nick) Talathi**

2017-2018

**Current position:**

Orthopedic Surgery Resident, University of California, Los Angeles

# Prior Ben Fox Fellows



**Jigar (Jay) Gandhi**  
2017-2018

**Current position:**  
Orthopedic Surgery Resident, Cooper  
University Health Care



**Brendan Striano**  
2016-2017

**Current position:**  
Orthopedic Surgery Resident, Harvard  
Medical School



**Taylor Jackson**  
2016-2017

**Current position:**  
Orthopedic Surgery Resident,  
Mayo Clinic MN



**Chris DeFrancesco**  
2016-2017

**Current position:**  
Orthopedic Surgery Resident,  
Hospital For Special Surgery



**Chris Brusalis**  
2015-2016

**Current position:**  
Orthopedic Surgery Resident, Hospital  
For Special Surgery



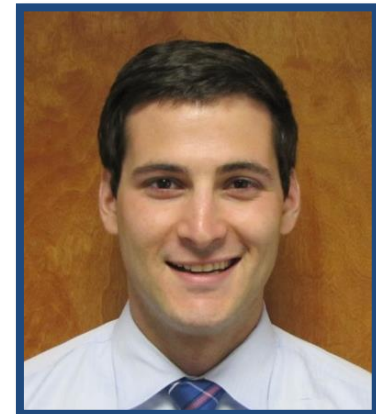
**Christian Refakis**  
2015-2016

**Current position:**  
Anesthesia Resident, Harvard



**Joseph Yellin**  
2014-2015

**Current position:**  
Pediatric Orthopaedics Clinical  
Fellow, CHOP



**Alex Gornitzky**  
2014-2015

**Current position:**  
Pediatric Orthopaedics Clinical  
Fellow, CHOP

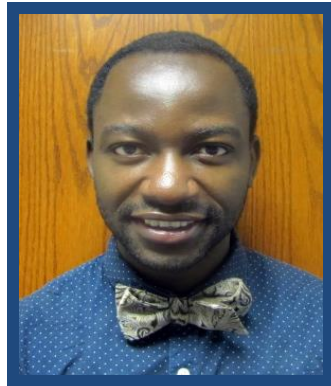


# Prior Ben Fox Fellows



**Christine Goodbody**  
2013-2014

**Current position:**  
Attending Orthopaedic Surgeon,  
CHOP



**Afam Nduaguba**  
2013-2014

**Current position:**  
Orthopaedic Surgeon, - MedStar  
Washington Hospital Center



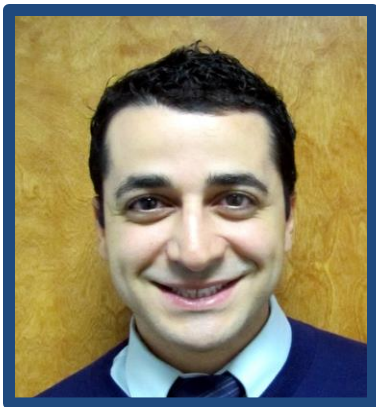
**Eric Sarkissian**  
2012-2013

**Current position:**  
Orthopedic Surgeon, VA Medical  
Center, Washington, DC



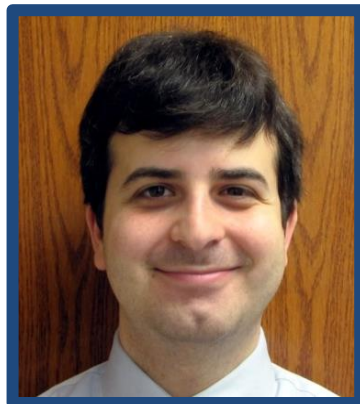
**Itai Gans**  
2012-2013

**Current position:**  
Director of Cartilage Restoration and  
Joint Preservation, Sports Medicine  
Surgeon, Premier Orthopaedics



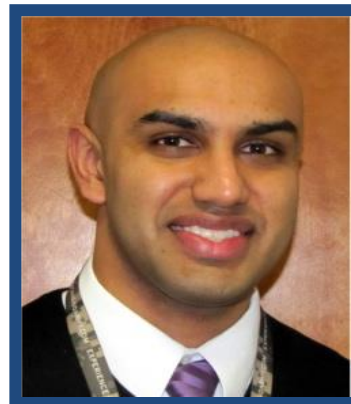
**Wajdi Kanj**  
2011-2012

**Current position:**  
Hand and Extremities Surgeon, Newton  
Wellesley Orthopedic Associates



**David Ramski**  
2011-2012

**Current position:**  
Orthopedic Surgeon, St. Luke's  
University Health Network



**Neeraj M. Patel**  
2010-2011

**Current position:**  
Sports Medicine Surgeon,  
Lurie's Children Hospital, Chicago, IL



**Nicholas A. Beck**  
2010-2011

**Current position:**  
Hand Surgeon,  
Billings Clinic, MT

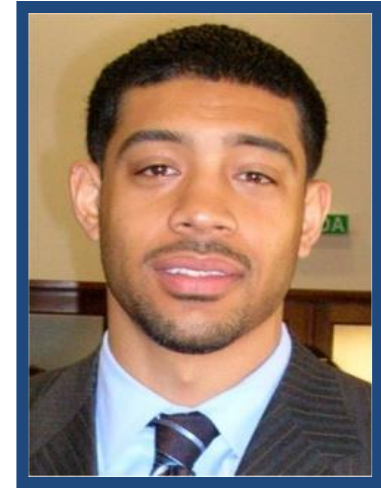
# Prior Ben Fox Fellows



**Robert A. Miller**  
2009-2010  
Radiologist, Crozer  
Chester Medical Center,  
Upland, PA



**Matthew R. Garner**  
2008-2009  
**Current position:**  
Orthopaedic Trauma  
surgeon, Penn State  
Hershey Bone and Joint  
Institute, Hershey, PA



**Kristofer J. Jones**  
2007-2008  
Head Team Physician and  
Director of Orthopaedic  
Surgery for the Los  
Angeles Lakers (NBA) and  
a Team Physician for the  
UCLA Bruins athletic  
teams





# Ben Fox Activities



2009-2010 Ben Fox Fellow, Nicholas Beck and Dr. Ganley at a Philadelphia Eagles game



2011-2012 Ben Fox Fellows with Dr. Flynn, Dr. Ganley, and Sharon Farrell, MSN, CRNP, at the end of the year Fellows Dinner at Citizens Bank Park



2012-2013 Ben Fox Fellows and International Research Fellows in Orlando, Florida for the 2012 IPOS Meeting



2014-2015 Ben Fox Fellows with Dr. Sankar and his son Kamran at the 2014 Holiday Party



# Ben Fox Activities



2010-2011 Ben Fox Fellows with nurse practitioner Sharon Farrell at the 2010 Holiday Party



Dr. Ganley and Dr. Flynn with 2013-2014 Ben Fox Fellows, Chrissy Goodbody and Afam Nduaguba



2014-2015 Ben Fox Fellows, Joe Yellin and Alex Gornitzky, at the FDA Reviewers Pediatric Spine Course which they attended and helped coordinate



2015-2016 Ben Fox Fellows Chris Brusalis and Christian Refakis with Dr. Ganley and Clinical Research Coordinator Eileen Storey at a conference

