

Division of Hip & Knee Reconstruction  
Department of Orthopedic Surgery  
Columbia University Irving Medical Center  
NewYork-Presbyterian

FRANK E. STINCHFIELD

# Adult Reconstruction Fellowship

2020 Fellowship Interviews



## Welcome to Columbia Orthopedics

The Department of Orthopedic Surgery at Columbia University Vagelos College of Physicians and Surgeons has earned a reputation as one of the leading academic orthopedic departments in the nation. Our rich tradition in orthopedic surgery dates back to 1866 when the New York Orthopaedic Dispensary—later named the New York Orthopaedic Hospital—opened its doors. Since that time, the department has grown into a preeminent center for quality patient care, research, and education.

The training of residents is one of our most important missions—and we are very proud that many of today’s leading orthopedic surgeons throughout the United States and abroad have trained here at Columbia. The excellence of our training program reflects the dedication of our faculty members, who combine their commitment to educating future leaders in the field of orthopedic surgery and their recognized expertise as clinicians and scientists. It is also an enormous advantage for all our residents to be trained in one of the nation’s leading academic medical centers, which was recently ranked as a top five hospital in the nation by U.S. News & World Report and continues to be recognized as one of the best hospitals in New York City.

Our one-year fellowship program in hip and knee reconstruction participates with the American Association of Hip and Knee Surgeons and in the San Francisco Matching Program. The fellows will spend a majority of their time at NewYork-Presbyterian/Columbia University Medical Center in northern Manhattan and at NewYork-Presbyterian Westchester Hospital in Bronxville, NY. The purpose of the fellowship is to train surgeons in all areas of hip and knee reconstruction surgery.

The Columbia Orthopedics team is pleased to welcome you to campus and invite you to learn more about our outstanding fellowship program by asking questions and discussing the program with our current fellows.

We look forward to meeting and interviewing you today!



**Roshan P. Shah, MD**  
Assistant Professor of Orthopedic Surgery  
Director, Hip & Knee Reconstruction Fellowship



**William N. Levine, MD**  
Frank E. Stinchfield Professor & Chair,  
Department of Orthopedic Surgery  
Chief, Shoulder Service  
Co-Director, Center for Shoulder,  
Elbow & Sports Medicine  
Head Team Physician,  
Columbia University Athletics  
Editor-in-Chief, Journal of the American  
Academy of Orthopedic Surgeons (JAAOS)

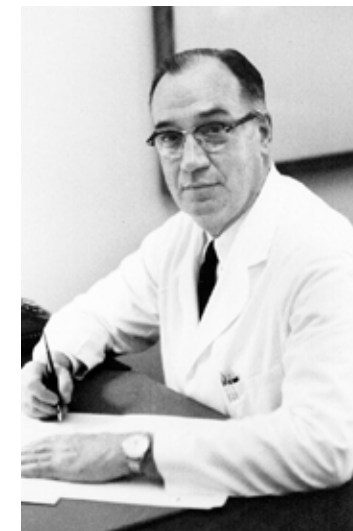


**Jeffrey A. Geller, MD**  
Nas S. Eftekhari Professor of  
Orthopedic Surgery  
Chief, Division of Hip & Knee  
Reconstruction

## About the Division of Hip & Knee Reconstruction



The Division of Hip & Knee Reconstruction at Columbia Orthopedics delivers advanced treatments to relieve hip and knee pain and, as a result, is a major referral center for patients from this country and abroad. In addition to providing state-of-the-art diagnostic and treatment approaches for hip and knee disorders, its physician-scientists remain on the cutting-edge of translational and clinical research.



Columbia has a storied tradition and illustrious history of leadership and excellence in hip and knee arthroplasty. Giants like Frank Stinchfield (at left) shaped the future of arthroplasty forever; he co-founded the Hip Society in 1969 and the International Hip Society in 1975. In 1968, Stinchfield and Nas Eftekhari brought Charnley’s total hip replacement technique to New York City and created one of the first THA Centers in the United States.

In 1969, Eftekhari implanted the first knee replacements to use a metal-backed tibial component and modular polyethylene inserts (the Eftekhari Mark I Knee), which spawned later total condylar designs by Eftekhari (the Eftekhari Mark II, at right) and others in New York City.

## Hip & Knee Division Faculty



### Jeffrey A. Geller, MD

Fellowship: MGH/Harvard University

Nas S. Eftekhari Professor of Orthopedic Surgery, CUMC  
Chief of Orthopedic Surgery, NewYork-Presbyterian Westchester Hospital  
Chief, Division of Hip & Knee Reconstruction  
Vice Chair, Finance, Department of Orthopedic Surgery  
Director of Research, Center for Hip & Knee Replacement

Dr. Geller maintains a high volume of primary and revision joint replacements and specializes in anterior hip replacements, partial knee replacements, and robotic assisted total knee replacement. He is renowned internationally for his leadership in the field of partial knee replacements as a designing surgeon, leading many national symposia and lectures. He also authored the pre-eminent textbook on ABMS, anterior based muscle sparing hip replacement surgery, through the anterolateral interval. He is a member of the Knee Society and has served and chaired several AAHKS committees, with a history of mentorship and guidance that extends well beyond fellowship. He runs the Westchester campus, where your rotations will expose you to a community practice environment.



### Roshan P. Shah, MD

Fellowship: Rush University

Assistant Professor of Orthopedic Surgery, CUMC  
Director, Adult Hip & Knee Reconstruction Fellowship

Dr. Shah specializes in minimally invasive anterior hip replacements and minimally invasive total knee replacements. Fellows will learn tissue sparing techniques that optimize instrumentation and leg positioning to accomplish true MIS reconstructions. These are valuable skills when facing complex revisions with difficult exposures. Dr. Shah has a research focus on pain minimization after total joint reconstruction. You will get exposure to custom-made primary knee replacements, limb salvage for complex failed reconstructions, and ortho-plastics based soft tissue management. In the office setting, you will learn how to cultivate a customer service based practice to grow in a competitive city. Fellows can count on mentorship throughout their careers.



### H. John Cooper, MD

Fellowship: Rush University

Associate Professor of Orthopedic Surgery, CUMC

Dr. Cooper is a high-volume adult reconstructive orthopedic surgeon, focusing on both primary and revision hip and knee replacements. He is skilled in direct anterior primary and revision hip arthroplasty, performed without a special table, and regularly teaches these techniques to surgeons from across the country through both continuing medical education courses as well as industry relationships. Fellows will be exposed to a variety of surgical approaches to knee arthroplasty with Dr. Cooper, including conventional cruciate-retaining and posterior-stabilized designs, robotic techniques, custom implants, and cemented and cementless fixation. Dr. Cooper also maintains a robust revision practice allowing exposure to the full range of revision arthroplasty. Preoperative risk stratification, quality metrics, coding and billing, and bundled care programs will be part of the informal curriculum while on service.



### Nana Sarpong, MD

Fellowship: Columbia University

Assistant Professor of Orthopedic Surgery, CUMC

Dr. Sarpong completed his residency at NYOH/Columbia in 2021, where he served as executive cochief resident in his final year alongside Dr. Herndon. He then completed his adult reconstruction fellowship at the Hospital for Special Surgery and rejoined the faculty in September 2022. His training and clinical interests include computer-assisted and robotic arthroplasty, both direct anterior and posterior THA (using enabling technologies), complex primary and revision for infection, fracture, and arthrofibrosis.



### Alexander L. Neuwirth, MD

Fellowship: Columbia University

Assistant Professor of Orthopedic Surgery, CUMC

Dr. Neuwirth specializes in advanced hip and knee reconstruction, with a focus on non-operative and surgical treatment of early, middle, and late-stage arthritic conditions of the hip and knee – with particular interests in anterior approach hip replacement, knee replacements, and complex revision surgeries. His research interests are focused on the eradication of infection following hip and knee replacements.



### Carl L. Herndon, MD

Fellowship: OrthoCarolina

Assistant Professor of Orthopedic Surgery, CUMC  
NewYork-Presbyterian Westchester

After completing his residency at Columbia, including serving as administrative chief resident in his final year, Dr. Herndon went on to complete the adult reconstruction fellowship at OrthoCarolina in Charlotte, NC. He rejoined the faculty at Columbia in September 2022. His clinical interests include anterior total hip arthroplasty, primary total knee arthroplasty, and complex revision hip and knee arthroplasty including periprosthetic joint infection and periprosthetic fractures. His research interests are focused on periprosthetic joint infection and healthcare disparities.



### Wakenda K. Tyler, MD

Fellowship: Memorial Sloan Kettering Cancer Center

Assistant Professor of Orthopedic Surgery, CUMC

Wakenda K. Tyler, MD, MPH specializes in the treatment of benign and malignant tumors of the bones and soft tissues in patients of all ages. As a musculoskeletal oncologist, Dr. Tyler's practice is focused on the non-operative and operative management of primary soft tissue and bone cancers, sarcomas, and metastatic bone cancer. Dr. Tyler's goal is to provide compassionate surgical care that achieves cure of cancer whenever possible by leveraging the latest advances in non-operative management, minimally invasive, and reconstructive surgical techniques.



## Fellowship Program Overview

The Hip & Knee Fellowship at Columbia Orthopedics and NewYork-Presbyterian produces technically skilled and academically capable surgeons of the hip and knee. Trainees are positioned to be leaders in academia or the community and are groomed to support and participate in our society of specialists.

Our fellows train under five surgeons, exposed to high volumes and a full spectrum of case types, implants, technologies, and surgical exposures. A diverse patient population leads to varying pathology, while access to innovative technology encourages a wide spectrum of surgical solutions. Opportunities for teaching and research round out the complete fellowship experience. Fellows are expected to engage in resident education both in the operative, clinic, and academic settings.

### Case Type and Volume

You will participate in primary and revision hip and knee reconstruction, periprosthetic fracture and infection treatment, and general lower extremity trauma. For those interested, you have access to hip and knee arthroscopy at Columbia as well. Outpatient joint surgery is performed successfully, with state of the art pain management and pathways to ensure safety.

In the first five months of 2022-2023, our fellows logged about 216 each and are on pace for around 520 cases for the year. The case mix has been 43% knee and 57% hip—a trend for the last few years, reflecting fellows choices. Depending on your preference, it's possible to have an even split or to do more knees than hips. Fellows completed approximately 21% revisions and partial knee replacement makes up approximately 9% of the primary knee experience. The vast majority of cases (75%) are typically performed in Manhattan and the remaining 25% in Westchester.

Our fellowship stands out for the autonomy offered by “independent practice” during the year. Historically, this practice resulted from running our under-insured hospital-based clinic and managing hospital consults. As fellows get comfortable (and as OR time becomes available), they book their own patients for surgery and safely guide their patients through all aspects of the preop, surgery, and recovery. These are opportunities to make critical decisions, develop the feel of balancing, and hone newly learned techniques. Each fellow will perform at least 30 independent cases by the end of the year, catapulting your learning and increasing the value of your time with attendings. This helps you focus on more subtle techniques to fine-tune your arthroplasties. Importantly, doing your first independent cases and managing your own mini-practice during fellowship allows you to graduate with a level of confidence and experience not typical of newly-minted surgeons.

### Technologies

Fellows are trained in traditional, non-technologically enhanced techniques in order to provide a solid foundation in adult reconstruction. On top of this foundation, robotics, image-based navigation, imageless navigation, and custom implants are regularly used and taught. Functional anteversion and other paradigm shifting ideas are developed, cultivated, and acted upon with cutting edge technology. These technologies may shape the future of arthroplasty and this exposure will help you determine the role, if any, these will play in your future practice.



## Fellowship Program Overview

### Surgical Exposures of the Hip

Columbia Arthroplasty showcases all approaches to the hip, including direct anterior, Watson-Jones MIS anterior—also known as anterior-based muscle sparing (ABMS)—and posterior approach hip replacements and resurfacings. Fellows will become facile with anterior approaches for primary and revision hip reconstructions. Minimally invasive exposures are performed and taught with an emphasis on safety and implantation fidelity. Traditional exposures are used in certain more complex circumstances.

### Learning Environments and Locations

Learning occurs in the operating room, on rounds, in the office setting, and in conferences. There is access to a fresh tissue laboratory to practice approaches and device implantation, as well as a multitude of local industry and society sponsored courses.

The majority of surgical cases are performed at the main hospital, NYP/ Columbia in northern Manhattan, and NYP Westchester Hospital in Westchester County. Other surgical locations include NYP/Allen Hospital at 220th street, and the Englewood NJ Surgi-center for outpatient joint replacements. Office sites are at the main hospital, midtown Manhattan, Englewood, NJ, Bronxville, NY, and Tarrytown, NY. The lower extremity clinic for indigent patients is located at the main campus.

After the Fellowship Year, newly minted arthroplasty surgeons have the option to travel to Europe to visit surgeons in Wrightington, England (Charnley's home), Hamburg, Germany, or other major arthroplasty institutions. This experience is fluid and malleable to the interests of the surgeon, and arrangements for the visit will be facilitated by the attendings.

### Research

Extensive research opportunities exist, with the support of an active research coordinator and research fellow. A comprehensive electronic hip and knee patient database has been in place since 2004. Fellows are required to produce at least two research projects of sufficient quality for publication. There are opportunities to write book chapters and review articles as well.



Above: NYP Columbia OR  
Below: NYP Westchester

## Fellowship Program Overview

### Weekly Operative Schedule

The current fellow's schedule emphasizes operative education, with clinical office hours when the surgical attending is away.

#### Monday

Fellow A: Dr. Cooper (Milstein OR)  
Fellow B: Dr. Herndon (Westchester OR) / Dr. Geller (office hours)  
When free: Dr. Sarpong (Milstein OR)

#### Tuesday

Fellow A: Dr. Shah (Milstein OR) / Dr. Neuwirth (Milstein OR once monthly)  
Fellow B: Dr. Geller (Westchester OR)

#### Wednesday

Fellow A: Dr. Cooper (Milstein OR)  
Fellow B: Independent Clinic (am) / Dr. Neuwirth (Milstein OR / office hours (pm))  
When free: Dr. Tyler (Milstein OR)

#### Thursday

Fellow A: Dr. Shah (Milstein OR)  
Fellow B: Dr. Geller (Westchester OR)

#### Friday

Fellow A: Dr. Cooper / Shah Office hours  
Fellow B: Independent Cases, add-on cases, or Dr. Sarpong (Milstein OR)

### Conference Schedule

<b>Wednesday</b>	6:30 am to 7:15 am – Arthroplasty Research Meeting, twice monthly Divisional business meeting, monthly
<b>Thursday</b>	7:00 am to 8:00 am – Orthopedic Grand Rounds
<b>Friday</b>	6:30 am to 7:30 am – Core Arthroplasty Conference: Indications and topic review

### Reading List

A compilation of key papers will be made available to you and should be read and studied throughout the year. Recommended texts include *Revision Hip and Knee Arthroplasty* by Berry et al, and *OKU: Hip and Knee Reconstruction 6*.

## Fellowship Program Goals & Objectives

The goals and objectives of the service are to educate the fellows in all areas of adult hip and knee reconstruction surgery. This will be achieved through didactic sessions, literature review, oral presentations, patient examination, and surgical treatment. Research and teaching will round out the fellowship training to prepare future community and professional leaders.

In addition, the goals of the rotation are to:

- Guide the fellow to develop the interpersonal skills needed to effectively engage patients and family members to enhance communication and education.
- Develop competency in the skill sets required to manage orthopedic inpatients – including administration, quality improvement, and leadership – through the use of effective verbal and written communication skills.
- Acquire medical knowledge about established and evolving biomedical, clinical, cognitive sciences and demonstrate the competent application of this knowledge to patient care.
- Encourage practice-based learning and improvement that involves investigation and evaluation of patient care, appraisal and assimilation of scientific evidence, and improvements in patient care.
- Demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.
- Exhibit professionalism through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.
- Utilize system-based practice, as manifested by actions that demonstrate an awareness of and responsiveness to the larger context and system of health care and ability to effectively call on system resources to provide care that is of optimal value.

### Supervision Policy

The Department of Orthopedic Surgery at Columbia University Medical Center is committed to residency education and to advanced graduate training of fellows in the sub-specialty of adult hip and knee reconstruction.

The Fellows also will have increasing responsibility, autonomy and independence during their 1-year experience. However, all fellow-related activity remains under the supervision of the Attending Staff on their respective services as mandated by New York State and NewYork-Presbyterian Policy.

## Columbia Orthopedics Locations



**NewYork-Presbyterian  
Columbia University Irving Medical Center**  
Millstein Hospital  
177 Fort Washington Ave  
New York, NY 10032

**NewYork-Presbyterian  
Morgan Stanley Children’s Hospital**  
3959 Broadway, 8 North  
New York, NY 10032

**NewYork-Presbyterian Allen Hospital**  
5141 Broadway, 3 Field West @ 220th Street  
New York, NY 10034

**NewYork-Presbyterian Westchester**  
55 Palmer Avenue  
Bronxville, NY 10708

**Administrative Offices**  
Department of Orthopedic Surgery  
622 West 168th Street, PH-11  
New York, NY 10032

**ColumbiaDoctors | Orthopedics**  
161 Fort Washington Ave, 2nd Floor  
New York, NY 10032

**ColumbiaDoctors | Midtown**  
51 West 51st Street, Suite 370  
New York, NY 10019

**ColumbiaDoctors | Orthopedics**  
590 5th Avenue, 5th Floor  
New York, NY 10036

**ColumbiaDoctors | Morningside**  
601 West 113th Street, Suite 1A  
New York, NY 10024

**ColumbiaDoctors | Englewood**  
500 Grand Avenue, 1st Floor  
Englewood, NJ 07631

**ColumbiaDoctors | Tarrytown**  
155 White Plains Road, Suite 105  
Tarrytown, NY 10591

**ColumbiaDoctors | Orthopedics**  
One Pondfield Road  
Bronxville, NY 10708

## 2020 – 2021 Graduate Staff Salaries

Graduate Staff Level 1	\$75,694
Graduate Staff Level 2	\$83,783
Graduate Staff Level 3	\$90,651
Graduate Staff Level 4	\$93,199
Graduate Staff Level 5	\$96,365
Graduate Staff Level 6	\$98,095
Graduate Staff Level 7	\$101,052

**NewYork-Presbyterian  
Office of Graduate Medical Education**

**Columbia University Medical Center**  
622 W 168th Street, HP102  
New York, NY 10032  
Tel 212.305.6081  
Fax 212.305.5905

**Weil Cornell Medical Center**  
525 E 68th Street, Box 312  
New York, NY 10021  
Tel 212.7456.4055  
Fax 212.746.4064

*For more information on NYP GME policies and procedures,  
please review the information in the USB drive provided  
when checking in for your interview.*



## Adult Reconstruction Fellowship

*Fellowship Interviews  
January 2023*



 **NewYork-Presbyterian**

**Division of Hip & Knee Reconstruction**  
Department of Orthopedic Surgery  
Columbia University Irving Medical Center

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