

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

FRANK E. STINCHFIELD

Adult Reconstruction Fellowship

2025 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. Today, the department has grown into a preeminent center for quality patient care, research, and education.

Training future surgeon 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 and fellows to be trained in one of the nation's leading academic medical centers, which is rated the fourth top orthopedic department by *U.S. News & World Report* and continues to be recognized as one of the best hospitals in New York City.

Designed to train surgeons in all areas of hip and knee reconstruction, our one-year fellowship program participates with the American Association of Hip and Knee Surgeons and the San Francisco Matching Program. Fellows spend most of their time at NewYork-Presbyterian/Columbia University Medical Center in the Washington Heights neighborhood of north Manhattan and at NewYork-Presbyterian Westchester Hospital in Bronxville, NY.

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, JD

Russell A. Hibbs Associate Professor of Orthopedics

Russell A. Hibbs Associate Professor (in Plastic Surgery)

Director, Hip & Knee Reconstruction Fellowship



Alexander L. Neuwirth, MD

Associate Director, Hip & Knee Reconstruction Fellowship

Associate Residency Program Director

Assistant Professor of Orthopedic Surgery



Jeffrey A. Geller, MD

Nas S. Eftekhari Professor of Orthopedic Surgery

Chief, Division of Hip & Knee Reconstruction

Chief of Orthopedic Surgery at NYP Westchester Hospital



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 Emeritus, Columbia University Athletics

Editor-in-Chief Emeritus, *Journal of the American Academy of Orthopedic Surgeons (JAAOS)*

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 is a major referral center for patients from the US and abroad. In addition to providing state-of-the-art diagnostic and treatment approaches for hip and knee disorders, our physician-scientists remain on the cutting-edge of translational and clinical research.

The division includes six core surgeons operating at two hospital campuses, collectively performing nearly 2,500 annual surgeries. Columbia Arthroplasty sets the highest standards for surgical quality and patient outcomes. To that end, we're actively pushing the forefront of technology to make constantly improve surgical skill and patient results.

History



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



H. John Cooper, MD

Fellowship: Rush University

Associate Professor of Orthopedic Surgery, CUMC

Dr. Cooper has a high-volume practice of both primary and revision hip and knee replacements. He is renowned in direct anterior primary and revision hip arthroplasty performed without a special table. He regularly teaches these techniques to surgeons in practice across the country. 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. Dr. Cooper runs an active and productive research program and is a past recipient of the Charles S. Neer, MD Teacher of the Year Award.



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 prestigious invitation-only Knee Society and Hip Society, and has served and chaired several American Association of Hip and Knee Surgeons (AAHKS) committees, with a history of mentorship and guidance for fellows extending well beyond the year of training. He is a past recipient of the Charles S. Neer, MD Teacher of the Year Award.

Dr. Geller leads the Westchester campus, where fellows receive exposure to a community practice environment. Additionally, Dr. Geller runs an active and productive research program.



Carl L. Herndon, MD

Fellowship: OrthoCarolina

*Assistant Professor of Orthopedic Surgery, CUMC
NewYork-Presbyterian Westchester*

Dr. Herndon joined the Columbia Orthopedics faculty in 2022 and is building his practice of primary and revision arthroplasty at the Westchester campus, specializing in anterior total hip arthroplasty, manual gap-balanced primary total knee arthroplasty, and complex revision hip and knee arthroplasty including periprosthetic joint infection and periprosthetic fractures. He is an AAHKS Health Policy Fellow and alumnus of the Columbia Orthopedics residency program. Dr. Herndon's research interests are focused on periprosthetic joint infection and healthcare disparities.



Alexander L. Neuwirth, MD

Fellowship: Columbia University

*Assistant Professor of Orthopedic Surgery, CUMC
Associate Director, Hip & Knee Reconstruction Fellowship
Associate Residency Program Director*

Dr. Neuwirth specializes in off-table anterior primary and revision hip replacements, as well as robotic primary and revision knee replacement surgery. His practice includes a mix of ambulatory primary surgery, conversion, and revision surgery, periprosthetic fractures, and prosthetic joint infections.

His research includes grant-funded biomechanics implant research, large database outcomes research, and research focused on resident and fellow education. His deeply held commitment to resident and fellow education and lifelong mentorship was recognized by Columbia Orthopedics in 2021 when he received the Charles S. Neer, MD Teacher of the Year Award.

Dr. Neuwirth is an alumnus of the Adult Hip and Knee Reconstruction Fellowship at Columbia University.



Nana O. Sarpong, MD

Fellowship: Hospital for Special Surgery

Assistant Professor of Orthopedic Surgery, CUMC

Since joining the faculty in 2022, Dr. Sarpong has built a robust arthroplasty practice at the main campus, focusing on primary and revision cases. His clinical interests include technology-enabled (computer-assisted, robotic, mixed reality) arthroplasty, both direct anterior and technology-enabled posterior THA, complex primary and revision for infection, fracture, and arthrofibrosis. He is a past recipient of the Charles S. Neer, MD Teacher of the Year Award. Dr. Sarpong completed his residency at NYOH/Columbia in 2021, where he was elected executive chief resident in his final year.



Roshan P. Shah, MD, JD

Fellowship: Rush University

*Russell A. Hibbs Associate Professor of Orthopedics
Russell A. Hibbs Associate Professor (in Plastic Surgery)
Director, Adult Hip & Knee Reconstruction Fellowship*

Dr. Shah teaches advanced techniques in minimally invasive surgery, modified for robotic assisted TKA. He follows a reconstruction philosophy of returning knees to their native anatomy, which is a variant of the kinematic technique. For hips, Dr. Shah teaches both the Watson-Jones and the direct anterior approaches for primaries and revisions, with most cases being done DA. Hip salvage cases are often done through a posterior approach. In addition to the anatomic knee resurfacing principles, fellows will learn tissue-sparing techniques, soft-tissue management and handling, and limb salvage management for complex reconstruction failures. These are valuable skills when facing tough revisions with difficult exposures.

Dr. Shah's runs a productive research program focused on pain minimization, health policy, robotics, and basic science synovial investigations. He is part of the Advanced Research Projects Agency for Health (ARPA-H) grant to Columbia University to design a biological knee replacement device, evolving from the metal and plastic of today, and is a member of the prestigious, invitation-only Knee Society. Fellows can count on mentorship throughout their careers.

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 are 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 modern approach to 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, clinical, 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. Outpatient joint surgery is performed commonly with state-of-the-art pain management and pathways to ensure safety.

In the 2023-2024 academic year, fellows logged around 650 cases. The case mix was around 51% hip and 49% knee. Revisions comprise approximately 20% of the case load. The cases are split between Manhattan and Westchester, with the vast majority (70%) handled in the city.

Historically, Columbia's fellowship stood out by offering fellows independence and autonomy by running an "independent practice" during the year. With the growth to three fellows in the 2026 class, we anticipate returning to the highly regarded original model. Here, fellows book patients for surgery and safely guide them through all aspects of preop, surgery, and recovery. These are unique opportunities to make critical decisions, develop the feel of balancing duties, and to hone newly acquired techniques.

Currently, fellows manage arthroplasty-related consults, plan and perform the surgeries, and follow their patients post-operatively during attending office hours (when possible). Fellows generally perform around 30 independent cases through consults—catapulting learning, and fine-tuning arthroplasty skills. This experience optimizes the value derived from operating with attendings. Managed independence allows our fellows to graduate with a level of confidence and experience not typical of new surgeons.

Fellows typically volunteer for weekend Level II trauma call of the lower extremity, for additional salary, which delivers an opportunity for hip fractures and more autonomy.

Technologies

Technology has led to an evolution in arthroplasty and fellows will receive robust exposure to a variety of advances. Fellows are expected to possess a foundation in traditional, non-technologically enhanced knee techniques (and will gain additional traditional exposure). We will build on these traditional techniques by using technology to enhance precision and to pursue reconstructive options like anatomic resurfacing. Fellows will be exposed to robotics, image-based navigation, imageless navigation, and hand-held sensor navigation systems. Most hip cases are traditional anterior with fluoroscopy guidance; however, fellows will also perform posterior THA with and without robotics.



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 upper Manhattan, and NYP Westchester 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 under-insured patients is located at the main campus.



Above: NYP Columbia OR
Below: PolarisAR's STELLAR Knee
precision technology

Most surgical cases are performed at the main hospital campus, NYP/Columbia Irving Medical Center, located in Washington Heights in upper Manhattan, and NYP Westchester in Westchester County. Office sites are at the CUIMC, Midtown Manhattan, Englewood, NJ, Bronxville, NY, and Tarrytown, NY. The lower extremity clinic for under-insured patients is located at the main campus in Washington Heights.

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.

Alumni & Life-Long Mentorship

Alumni of the Frank E. Stinchfield Adult Reconstruction Fellowship are practicing across the country in academia and in private practices. Alumni and Attendings maintain contact to share interesting and complex cases, review board exam cases, discuss job opportunities, and, most importantly, to share updates on children, family, and lives outside of work. Joining the Alumni Association after graduation opens the door to a network of talented hip and knee surgeons with a wealth of experience.

Fellowship Program Overview

Weekly Operative Schedule

The schedule emphasizes operative education and clinical office hours.

Monday

Fellow A: Dr. Cooper (Milstein OR)
Fellow B: Dr. Herndon (Westchester OR)
Fellow C: Dr. Sarpong (Milstein OR)

Tuesday

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

Wednesday

Fellow A: Dr. Cooper (Milstein OR)
Fellow B: Independent Clinic (possible) / Dr. Geller or Dr. Herndon (office hours)
Fellow C: Dr. Neuwirth (Milstein OR / office hours)

Thursday

Fellow A: Dr. Shah (Milstein OR)
Fellow B: Dr. Geller (Westchester OR)
Fellow C: Dr. Neuwirth (Milstein OR) / Dr. Sarpong (office hours)

Friday

Fellow A: Dr. Cooper / Shah (office hours)
Fellow B: Dr. Herndon (office hours)
Fellow C: Dr. Neuwirth / Dr. Sarpong (office hours)



Conference Schedule

- | | |
|------------------|---|
| Wednesday | 6:30 am to 7:15 am – Arthroplasty Research Meeting, twice monthly
Divisional business meeting, monthly |
| Thursday | 7:00 am to 8:00 am – Orthopedic Grand Rounds |
| Friday | 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.



Several members of the current Columbia Adult Reconstruction Team (L-R) Roshan P. Shah, MD, JD; Carl L. Herndon, MD; H. John Cooper, MD; Jeffery A. Geller, MD, Division Chief; Christopher Stanlon, MD; Alexander L. Neuwirth, MD; Nana O. Sarpong, MD

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

2024-2025 Graduate Medical Education Salary & Stipend

	Salary Effective July 2024	Housing Stipend Effective July 2024 (paid quarterly)	Total Direct Pay Effective July 2024
Graduate Staff Level 1	\$89,100	\$7,500	\$96,600
Graduate Staff Level 2	\$98,700	\$7,500	\$106,200
Graduate Staff Level 3	\$106,700	\$7,500	\$114,200
Graduate Staff Level 4	\$109,800	\$7,500	\$117,300
Graduate Staff Level 5	\$113,500	\$7,500	\$121,000
Graduate Staff Level 6	\$115,500	\$7,500	\$123,000
Graduate Staff Level 7	\$119,000	\$7,500	\$126,500

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 2025*



 **NewYork-Presbyterian**

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Department of Orthopedic Surgery
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