

# Dr. Sam Vojdani

## Employment

Total Joint Specialists  
Director, Atlanta Area  
Medical Director, Advanced Center for Joint Replacement - Atlanta  
Atlanta, GA

Assistant Professor of Orthopaedic Surgery  
Emory University School of Medicine  
Department of Orthopaedic Surgery  
Atlanta, GA  
End: 2023

Assistant Attending Physician in Clinical Orthopaedic Surgery  
Columbia University Medical Center (NY-Presbyterian Hospital)  
Department of Orthopaedic Surgery  
New York, NY  
End: 2020

## Education

American Board of Orthopedic Surgery  
Certification; Exp. 2032

Columbia University; New York, NY  
Orthopaedic Fellowship: Adult Reconstruction

Stony Brook University Hospital; Stony Brook, NY  
Categorical Residency: Orthopaedic Surgery

Medical College of Georgia, Georgia Regents University; Augusta, GA  
Doctor of Medicine, MD  
Summa Cum Laude

Georgia Institute of Technology; Atlanta, GA  
B.S. in Biology (Business & Research Options), Minor: Biomedical Engineering  
Summa Cum Laude

## Honors

Diamond Provider, The Emory Clinic: Top 1% in 'Likely to Refer'  
Chief Orthopaedic Resident  
Most Outstanding Resident Research Award  
Alpha Omega Alpha Honor Society  
Gold Humanism Honor Society  
Pathology Honor Society, Association of Pathology Chairs  
Presidential Scholar: Georgia Tech's Top Merit-Based Scholarship

## Publications

- Vojdani S, Roberto RA, Gazgalis A, Bonsignore-Opp L, Shah R, Copper HJ, Geller JA. Assessment of Tourniquet Times and Postoperative Morphine Equivalents in Total Knee Arthroplasty: A Retrospective Cohort Study. *The Knee*.
- Pearl M, Vojdani S, Chernoff E, Wallach D. Arthroscopically-Assisted Surgical Intervention of Osteochondritis Dissecans of The Talar Dome in Homozygous Adolescent Twins: A Case Report.
- Hassan C, Gurevich M, Vojdani S, Denney B, Komatsu D, Penna J, Zhang Y, Yi-Xian Qin. Decompressive Proximal Fibula Osteotomy Alters Contact Pressures in the Medial Compartment of Varus Cadaveric Knees.
- Novikov D, Cohen D, Swanson D, Vojdani S, Fazel Khan. *Journal of Arthroplasty*. 2019 July; 34(7): 1546-1552. A Meta-Analysis of Outcomes in Total Hip Arthroplasty Recipients following Pelvic Irradiation.
- Bisogno M, Vojdani S, Aalai M, Shapiro D, Moriarty M, Vigorita V, Capozzi J. Hyaluronan Injections Show No Histologic Evidence of Adverse Tissue Effects. *Geriatric Orthopaedic Surgery & Rehabilitation*, 2019. 10(1): p. 1-4.
- Vojdani S et al. *Journal of Orthopedic Trauma*. 2017 Mar; 31(3):81-85. Novel Spiked-Washer Repair is Biomechanically Superior To Suture and Bone Tunnels for Arcuate Fracture Repair.
- Tanner G, Vojdani S, Barsi J. *BMC Research Notes*. 2017; 10:678. Validation of a Saw Bones Model for Training Pedicle Screw Placement in Scoliosis.
- Tatka J, Elbayer J, Vojdani S, Pallotta N, Malik A, James Barsi. *Pediatric Spinal Cord Injury. J Spine*. 2016 March: S7 007.
- Monson DK, Vojdani S, Dean TJ, Louis-Ugbo J. *Clin Orthop Relat Res*. 2014 Apr;472(4):1262-70. Lateral ankle stabilization after distal fibular resection using a novel approach: a surgical technique.

## Posters

- Saman Vojdani MD<sup>1,2</sup>, R. Alex Ruberto BA<sup>1</sup>, Anastasia Gazgalis BS<sup>1</sup>, Lisa Bonsignore-Opp BA<sup>1</sup>, Roshan P. Shah MD JD<sup>1</sup>, H. John Cooper MD<sup>1</sup>, Jeffrey A. Geller MD. The Effects of Variable Tourniquet Use in Total Knee Arthroplasty: A Retrospective Cohort Study. *AAHKS 2021*.
- Bisogno M, Vojdani S, Aalai M, Shapiro D, Moriarty M, Vigorita V, James Capozzi. Hyaluronan Injections Show No Histologic Evidence of Adverse Tissue Effects. *Orthopaedic Research Society*, 2019.
- Chaudhry H, Gurevich M, Vojdani S, Denney B, Uddin S, Qin Y, Komatsu D, Penna J. 3-D Human Knee Nonlinear Poroelastic Kinematic Analysis and Maximal Stress Prediction using Nonlinear FEM in Cadaveric Knee Loading. *Orthopaedic Research Society*, 2019.
- Chaudhry H, Gurevich M, Vojdani S, Denney B, Uddin S, Lee W, Qin YX, Komatsu D, James Penna. Decompressive proximal fibula osteotomy alters contact pressure in the medial compartment of varus cadaveric knees. *World Congress of Biomechanics*, July 2018.
- Vojdani S, Shapiro D, Aalai M, Capozzi J, Vigorita V. Intraoperative Total Knee Arthroplasty Meniscus Specimen Analysis status post Viscosupplementation. *WUH Research Day*, 2017.

Chaudhry H, Gurevich M, Vojdani S, Denney B, Komatsu D, Penna J, Yi-Xian Qin. Fibula Osteotomy as an Alternative of Improved Joint Contact Loading for Medial Decompression of Varus Deformed Human Knee. Biomedical Engineering Society Annual Meeting, October 2018.

Vojdani S, Shapiro D, Aalai M, Capozzi J, Vigorita V. Intraoperative Total Knee Arthroplasty Meniscus Specimen Analysis status post Viscosupplementation. Nassau Surgical Society Meeting, 2017.

Vojdani, S. Structure to Function Analysis: Antioxidant Properties of Endogenous Amphiphilic GFP Families. Georgia Tech, 2010.

## **Presentations**

Effects of Variable Tourniquet Use in Total Knee Arthroplasty: A Retrospective Cohort Study. AAHKS 2021.

Assessment of Tourniquet Times and Postoperative Morphine Equivalents in Total Knee Arthroplasty: A Retrospective Cohort Study. Columbia University Medical Center. Orthopaedic Grand Rounds. June 2020.

Prosthetic Joint Infections: Where Are We Now? Stony Brook University Hospital. Orthopaedic Grand Rounds. April 2018.

Adhesive Capsulitis: Diagnosis and Treatment Modalities. Stony Brook University Hospital. Orthopaedic Grand Rounds. March 2017.

Profiling Force and Pressure Over the Human Tibial Plateau. Biomedical Engineering Multilateral Symposium 2017. Beihang University, Beijing, China.

Distal Humerus Fractures. NYU Winthrop University Hospital. Orthopaedic Grand Rounds. January 2016.

## **Leadership**

AAHKS Fellow, Humanitarian Committee  
American Academy of Orthopedic Surgeons  
Georgia Orthopedic Society  
AAHKS Young Arthroplasty Group  
AOC Member  
Arthroplasty Today Peer Research Reviewer  
JGME Peer Research Reviewer  
AAOS Resident Assembly Representative  
AAOS Resident Education Committee  
American Orthopedic Association Resident Leadership Forum  
Stony Brook Graduate Medical Education Committee  
Lambda Sigma Honor Society  
Phi Gamma Delta Fraternity