



# GRANTS AWARDED 2023

# GRANT AND AWARD RECIPIENTS | 2023

## OREF CLINICAL RESEARCH AWARD

**PI: Marc J. Philippon, MD, FAAOS**

Steadman Philippon Research Institute, Colorado

*Hip Chondral-Labral Dysfunction: The Road from Excision to Repair, Replacement, and Regeneration*

## OREF LIFETIME SERVICE AWARD

**James R. Urbaniak, MD**

Duke University

The Aircast Foundation

MTF Biologics

## ORS/OREF DISTINGUISHED INVESTIGATOR AWARD

**Peter C. Amadio, MD**

Mayo Clinic, Minnesota

## OREF MICHAEL P. KELLY SR. LEADERSHIP FELLOWSHIP AWARDS

**Lorraine Boakye**

University of Pennsylvania, Perelman School of Medicine

**Lori Chambers, MD**

Larkin Community Hospital

**Dainn Woo, MD**

University of Pennsylvania

## RESEARCH GRANTS

### CAREER DEVELOPMENT GRANT

**PI: Collin May, MD**

Boston Children's Hospital

*CT Rigidity Analysis for the Assessment of Regenerate Bone Strength*

Partially funded by Elizabeth Rose Vates and the Dr. Dane and Mrs. Mary Louise Miller Endowment Funds

### PROSPECTIVE CLINICAL RESEARCH GRANT

**PI: Jonathan Elliott, PhD**

Dartmouth-Hitchcock Clinic

*Fluorescence-based Identification of Necrotizing Soft-Tissue Infection*

### OREF/GOLDBERG ARTHRITIS RESEARCH GRANT

**PI: Nathanael Heckmann, MD**

**Co-PI: Ian Jones, MD**

University of Southern California

*Efficacy of Dextromethorphan for Pain Management in Total Knee Arthroplasty*

Funding made possible by the Dr. Victor and Mrs. Harriet Goldberg Endowment Fund

### OREF/ASES/ROCKWOOD CLINICAL SHOULDER RESEARCH GRANT

**PI: Matthew DiPaola, MD**

**Co-PI: John Crane, MD, PhD**

**Co-PI: Alan Friedman, PhD**

The Research Foundation for The SUNY on behalf of University of Buffalo

*Optimizing Antibiotic-Cement Efficacy in Peri-Prosthetic Shoulder Infection*

Funding made possible by the Dr. and Mrs. Charles Rockwood Family Endowment Fund

**OREF/MUSCULOSKELETAL TRANSPLANT  
FOUNDATION (MTF) BIOLOGICS  
RESEARCH GRANT**

**PI: Steven DeFroda, MD**

The Curators of the University of Missouri  
*Characterization of Graft Types for Acetabular  
Labrum Reconstruction*

Funding made possible by the Musculoskeletal Transplant  
Foundation Biologics

**OREF/AANA MULTIMODAL MUSCULOSKELETAL  
PAIN PERIOPERATIVE MANAGEMENT GRANT**

**PI: Catherine Olinger, MD**

**Co-PI: Christine McNair, BSN, MSN**

The University of Iowa  
*Regional Nerve Blocks to Improve Recovery in Elderly Spinal  
Fusion Patients*

Funding made possible by the American Association of Nurse  
Anesthetists (AANA) Foundation

**OREF/AAOS INJECTABLE ORTHOBIOLOGICS OF  
KNEE OSTEOARTHRITIS RESEARCH GRANT**

**PI: Thomas Kremen, MD**

The Regents of the University of California, Los Angeles  
*Functional Impact of Intra-Articular ALK1-Fc Therapy  
in Osteoarthritis*

Funding made possible by the American Academy of Orthopaedic Surgeons

**OREF OSTEOARTHRITIS RESEARCH GRANTS**

**PI: Gregory Galloday, MD**

**Co-PI: Daniel Riddle, PhD**

Virginia Commonwealth University  
*Head-to-Head Comparison of Appropriateness Criteria for  
Knee Arthroplasty*

Funding made possible by the the American Arthritis Society

**PI: Cecilia Pascual-Garrido, MD, PhD**

Washington University, School of Medicine  
*Pro-inflammatory Macrophage Phenotype in Synovium During  
Hip OA Progression*

Funding made possible by the the American Arthritis Society

**AMERICAN ORTHOPAEDIC SOCIETY  
FOR SPORTS MEDICINE IN COLLABORATION  
WITH OREF AND THE AAOS SPORTS MEDICINE  
MULTICENTER RESEARCH GRANT**

**PI: Jeffrey Nepple, MD**

Washington University in St. Louis  
*Optimizing Outcomes of Hip Surgery in Borderline  
Acetabular Dysplasia*

Funding made possible by The American Orthopaedic Society for  
Sports Medicine and The Aircast Foundation

**OREF/MEDICAL TECHNOLOGY ENTERPRISE  
CONSORTIUM (MTEC) MUSCULOSKELETAL  
RESIDENT ACUTE INJURY RESEARCH GRANT**

**PI: Jim C. Hsu, MD**

**Co-PI: Steven Tommasini, PhD**

Yale University School of Medicine  
*Mid-Substance PCL Tear: A Novel Arthroscopic Direct  
Repair Technique*

**OREF/MEDICAL TECHNOLOGY ENTERPRISE  
CONSORTIUM (MTEC) GRANTS**

**PI: Daniel Clifton, MD**

The Henry Jackson Foundation for the Advancement  
of Military Medicine, Inc.

**PI: Shawn Gee, MD**

US Military Academy, West Point (Site 2)

**PI: Larry Kim, MD**

Articulate Labs, Dallas (Site 3)

*Dynamic Gait-Synchronous Neuromuscular Electrical Stimulation  
Following Anterior Cruciate Ligament Reconstruction*

Funded in part by The Aircast Foundation

**PI: Don Goss, MD**

The Geneva Foundation

**PI: Alex Fuentes, MD**

EMOVI, Quebec, Canada (Site 2)

**PI: Don Rhon, MD**

Desmond Doss Health Clinic, HI (Site 3)

**PI: Don Goss, MD**

Womack Army Medical Center (Site 4)

*Objective Dynamic and 3D Knee Assessment Medical Device  
to Improve Recovery and Accelerate Return to Readiness of  
Members with Knee Pain*

Funded in part by The Aircast Foundation

## OREF/JRGOS DIVERSITY, EQUITY, INCLUSION AND DISPARITIES IN ORTHOPAEDIC HEALTH CARE RESEARCH GRANT

**PI: Addisu Mesfin, MD**

MedStar Washington Hospital Center

*Treating Cauda Equina Syndrome from A Health Care Disparities Perspective*

Funding made possible by The Zimmer Biomet Foundation

## OREF MENTORED CLINICIAN SCIENTIST GRANTS

**PI: David M. Brogan, MD**

Washington University in St. Louis

*Identification & Imaging of Skeletal Muscle Response to Graded Nerve Crush*

Funding made possible by the Ira A. Roschelle Family Foundation

**PI: Cecilia Pascual-Garrido, MD, PhD**

Washington University School of Medicine in St. Louis

*Mediators of the OA Cascade in the Pre-Arthritic Hip*

Funding made possible by the Ira A. Roschelle Family Foundation

**PI: Carmen Quatman, MD, PhD**

The Ohio State University

*Transformative Solutions for Reducing Frequent 911 Fall Calls*

Funding made possible by the Dr. Zachary B. and Mrs. Kathleen Friedenbernd Endowment Fund

## NEW INVESTIGATOR RESEARCH GRANT

**PI: Natalie Leong, MD**

**Co-PI: Jie Jiang, PhD**

University of Maryland, Baltimore

*The Role of CCN2 in Tendon Healing*

## RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

**PI: Bijan Dehghani, MD**

University of Pennsylvania

*Validating the Use of Next-Generation Sequencing in Open Fracture Care*

Funding made possible by The Aircast Foundation in honor of Richard Kyle, MD

**PI: David Liu, MD**

**Co-PI: Brian Snyder, MD, PhD**

Boston Children's Hospital

*Effect of Vitamin D in Prevention and Treatment of Pediatric Fractures*

Funding made possible by The Aircast Foundation in honor of Richard Kyle, MD

**PI: Andrew Luzzi, MD**

Columbia University Medical Center

*Enhanced Entesis Regeneration via Gli1+ Entesis Stem Cell Treatment*

Funding made possible by the John T. Hocker Charitable Foundation in Memory of John T. Hocker, MD

## RESIDENT RESEARCH PROJECT GRANTS

**PI: Beth Ashinsky, MD**

**Co-PI: Stavros Thomopoulos, PhD**

**Co-PI: Christopher Ahmad, MD**

Columbia University

*Moving Towards Primary ACL Repair: The Role of the ACL Sheath*

Funding made in Honor of Dr. Richard Kyle by The Aircast Foundation

**PI: Patawut Bovonratwet, MD**

**Co-PI: Sheeraz Qureshi, MD**

**Co-PI: Douglas Wetmore, MD**

The Hospital for Special Surgery

*ESP Block in Patients Undergoing Lumbar Spinal Fusion Surgery*

Funding made possible by the Ira A. Roschelle Family Foundation

**PI: Kallie Chen, MD**

**Co-PI: Raymond Liu, MD**

University Hospitals Cleveland Medical Center

*Development of an AI System for Interpreting Skeletal Maturity Knee X-Rays*

Funding made possible by Brown University in Memory of Dr. Michael Ehrlich

**PI: Elizabeth Cho, MD**

Loyola University of Chicago

*Methylene Blue as a Disclosing Agent for Fracture-Related Infection*

Funding made possible by Thomas P. Sculco, MD

**PI: Elianna Fred, MD**  
**Co-PI: Erin Hsu, PhD**  
**Co-PI: Romie Gibly, MD**  
**Co-PI: Wellington Hsu, MD**  
Northwestern University

*Preclinical Investigation of the Impact of E-Cigarettes on Spinal Fusion*

Funding made possible by the Ira A. Roschelle Family Foundation

**PI: Katherine Gerull, MD**

**Co-PI: Anna Miller, MD**

Washington University in St. Louis

*Exploring Orthopedic Workplace Climate for Women Surgeons in the US*

*In Honor of Jack C. Hughston, MD and James R. Andrews, MD*

Funding made possible by Michael J. Axe, MD and Jeremie M. Axe, MD

**PI: Cierra Hong, MD**

The Board of Trustees of the Leland Stanford Junior University

*Cell Free Tumor DNA for Relapse Prediction in soft Tissue Sarcomas*

Funding made possible by The Western Orthopaedic Foundation

**PI: Samuel Lorentz, MD**

Duke University School of Medicine

*Effect of Saline Lavage on Synovial Fluid Composition after Ankle Fracture*

Funding made possible by Thomas P. Sculco, MD

**PI: Spencer Richardson, MD**

**Co-PI: Edward Greenfield, MD**

Indiana University

*Preclinical Model of Chemotherapeutic Response of Osteosarcoma*

Funding made possible by the Ira A. Roschelle Family Foundation

**PI: Devon Scott, MD**

University of Pittsburgh

*Evaluation of Glenoid Bone Loss Measurements using a 3D Bone Model*

Funding made possible by Dr. Adam and Julie Harris in Memory of Eugene Harris, MD

**PI: Camille Sullivan, MD**

**Co-PI: Rosanna Wustrack, MD**

The Regents of the University of California, San Francisco  
*Elucidating Immunologic Drivers of Chondrosarcoma Metastasis*

Funding made possible by The Western Orthopaedic Foundation

**PI: Joseph Tanenbaum, MD**

**Co-PI: Linda Suleiman, MD**

Northwestern University

*Social Vulnerability and Wait Times in Total Joint Arthroplasty*

## OREF/SHIMOUMURA INTERNATIONAL SOCIETY OF ORTHOPAEDIC SURGERY & TRAUMATOLOGY TRAVEL AWARDS

**Jishizhan Chen, MD, PhD**

University College London

*Liquid Crystalline Structures Orchestrate Hierarchical Bone-Like Mineralisation*

**Maria Melanie Valbuena, MD**

Philippine Orthopedic Center

*A Comparison of Postoperative Outcomes Between Internal Brace Augmented Hamstring Tendon Autograft ACL Reconstruction and Non-augmented Hamstring Tendon Autograft*

## REGIONAL NEW INVESTIGATOR AWARDS

EASTERN ORTHOPAEDIC ASSOCIATION

**OREF RESIDENT TRAVEL GRANT AWARDS**

**Stuart Changoor, MD**

St. Joseph's University Medical Center

*ACDR vs. MI-PCF in the Treatment of Unilateral Cervical Radiculopathy*

**Jared J. Reid, MD**

Medical University of South Carolina

*Opportunistic CT: A Novel Opportunity for Osteoporosis Screening*

**Michael Schallmo, MD**

Atrium Health Carolinas Medical Center

*Opioid-Free Postoperative Pain Management in Anterior Cervical Spine Surgery*

SOUTHERN ORTHOPAEDIC ASSOCIATION

**OREF YOUNG INVESTIGATOR AWARDS**

**Mary-Katherine Lynch, MD**

Medical University of South Carolina

*Nanowarming by Inductive Heating of Vitrified Large Articular Cartilage Specimens*

**Andrew L. Schaver, MD**

Marshall University Orthopedic Surgery

*Fertilized Anterior Cruciate Ligament Reconstruction Leads to Superior Early Functional and Patient Reported Outcomes: A Prospective, Randomized Controlled Trial*

**Sean Sequeira, BS**

Union Memorial Hospital

*Radial Lateral Meniscus Tears Affect Contact Forces when the Meniscomfemoral Ligament is Involved: A Cadaveric Study*

**WESTERN ORTHOPAEDIC ASSOCIATION**

**OREF YOUNG INVESTIGATOR AWARDS**

**Nathaneal D. Heckman, MD**

Keck Medicine of University of Southern California

*Tranexamic Acid is Associated with Improved Outcomes Even in High-Risk Total Joint Arthroplasty Patients*

**Harin B. Parikh, MD**

Cedars-Sinai Medical Center

*Outcomes of Biceps Tenodesis with ORIF for Proximal Humeral Fractures*

**Dean Wang, MD**

University of California, Irvine

*Detrimental Effects of Chlorhexidine Irrigation on Articular Cartilage Viability, Matrix, and Mechanics*

**OREF/CURRENT CONCEPTS IN JOINT REPLACEMENT CLINICAL PRACTICE POSTER AWARDS**

**Gautier J. Beckers, MD**

Maisonneuve Rosemont Hospital

*Excellent Results of Large-Diameter Ceramic-on-Ceramic Bearing in Total Hip Arthroplasty at Minimum Ten Years Follow-Up*

**David G. Deckey, MD**

Mayo Clinic Arizona

*C. difficile Infection Prior to Total Hip Arthroplasty Independently Increases the Risk of PJI*

**Scott M. LaValva, MD**

The Hospital for Special Surgery

*Substantial Weight Loss May Not Help Improve Early Outcomes of Total Knee Arthroplasty in the Morbidly Obese*

**Katherine K. Li, MD**

Anderson Orthopaedic Clinic

*Outpatient Arthroplasty Can be Safe in Patients with BMI $\geq$ 40*

**Anna K. Michalowski, MD**

New England Baptist Hospital

*Medical and Recreational Cannabis State Laws' Impact on Trends in Postoperative Opioid Prescriptions in TJA patients*

**David Rodriguez, MD**

University of Texas, Houston

*Synovial Fluid Absolute Neutrophil Count a Promising Marker for Diagnosing Periprosthetic Joint Infection*

**2023 RESIDENT RESEARCH SYMPOSIA WINNERS**

**NATIONAL**

**2023 Richard Kyle, MD**

**OREF National Resident Champion**

**Brendan Shi, MD**

University of California, Los Angeles

*Bisphosphonate Chaperones Effectively Target the Enthesis Without Impairing Soft Tissue-to-Bone Repair Integrity*

**Top Scoring Residents**

**Christian Blough, MD**

Cedars-Sinai

*Hormonal Contraceptives Protect Against Ligament Injuries in Female Athletes*

**Edwin Chaharbakhshi, MD**

West Virginia University

*Does Cement Mixing Technique Affect Surgical Exposures to Contaminants and Operating Room Exposures to Volatile Organic Compounds?*

**Bijan Dehghani, MD**

University of Pennsylvania

*Defining In Vitro and In Situ Thresholds for Tension Activated Repair Patches*

**Mitchell Ng, MD**

Maimonides Medical Center

*Liposomal Bupivacaine Does Not Decrease Post-Operative Pain in Patients with Intracapsular Femoral Neck Fracture Treated with Hemiarthroplasty: A Double-Blinded Randomized, Controlled Trial*

### **Presenters' Choice**

**Katherine Gerull, MD**

Washington University in St. Louis

*Attrition Amongst Residents Entering US Orthopedic Surgery Residency Programs: Analysis of National GME Census Data*

### **MIDWEST**

#### **First Place**

**Ryan Furdock, MD**

Case Western Reserve University/University Hospitals  
Cleveland Medical Center

*Culture Expansion Affects Stem Cell Secretome*

#### **Second Place**

**Katherine Gerull, MD**

Washington University in St. Louis

*Attrition Among Residents Entering US Orthopedic Surgery Residency Programs: Analysis of National GME Census Data*

**Alex Kane Miller, MD**

Beaumont Hospital Royal Oak

*Outpatient Spine Surgery in the Medicare Population: Trends in Hospital Outpatient and Ambulatory Surgical Center Utilization, 2010-2021*

#### **Third Place—4-Way Tie**

**Jonathan Ellis, MD**

University of Cincinnati

*Intra-Articular Air and Hip Joint Radiodensity Correlate with Posterior Wall Acetabulum Fracture Instability*

**William Harkin, MD**

Rush University Medical Center

*Clinical Outcomes and Survivorship of Lateral Unicompartmental Knee Arthroplasty: A Large Single Surgeon Cohort*

**Christopher Johnson, MD**

University of Chicago

*Civilian Lumbosacral Ballistic Fractures and Their Associated Injuries*

**Cody Lee, MD**

University of Chicago

*Long Head of the Biceps Autograft Performs Biomechanically Similar to Human Dermal Allograft for Superior Capsule Reconstruction After Rotator Cuff Tear*

### **Presenters' Choice**

**Margaret Sinkler, MD**

University Hospitals, Case Western Reserve

*Subperiosteal Elevation of the Ulnar Nerve is a Safe and Effective Way to Minimize Post-Operative Ulnar Neuritis in Distal Humerus Fractures*

### **SOUTHEAST**

#### **First Place**

**Nainisha Chintalapudi, MD**

Atrium Health/Carolinas Medical Center

*Fracture Related Infections after Low-velocity Ballistic Tibia Fractures: What do Cultures Show?*

#### **Second Place**

**Edwin Chaharbakhshi, MD**

West Virginia University

*Does Cement Mixing Technique Affect Surgical Exposures to Contaminants and Operating Room Exposures to Volatile Organic Compounds?*

**Rahul Goel, MD**

Emory University School of Medicine

*Non-invasive Active Acoustics as Biomarkers of Early Periprosthetic Joint Effusions, A Cadaveric Study*

#### **Third Place**

**Janice Bonsu, MD**

Emory University School of Medicine

*90-Day Post-Operative Complications Among Revision TKA Patients Diagnosed with COVID-19 Postoperatively*

**Eoghan T. Hurley, MD**

Duke University

*Anterior Shoulder Instability – An International Delphi Consensus Statement*

**Bridger Rodoni, MD**

Emory University School of Medicine

*Trends in Costs and Professional Reimbursements for Revision Total Knee and Hip Arthroplasty*

### **Presenters' Choice**

**Benjamin Averkamp, MD**

Atrium Health/Carolinas Medical Center

*Opioid-Free Surgery vs Traditional Perioperative Analgesia: A Randomized Control Trial of Novel Clinical Care Pathway in Elective Orthopedic Surgery*

## CENTRAL WEST

### First Place

**Samuel Roswell Huntley, MD**

University of Miami

*Epidemiology and Video Analysis of Hamstring Injuries in the National Basketball Association*

### Second Place

**David S. Constantinescu, MD**

University of Miami

*Intravenous Meloxicam versus Intravenous Ketorolac for Pain Control Following Total Joint Arthroplasty: A Randomized Controlled Trial*

**Sarah N. Powell, MD**

University of Nebraska Medical Center

*Female Medical Students' Interest in Orthopedics Decreased After Sawbones Lab*

### Third Place

**Alexandra Cancio-Bello, MD**

Mayo Clinic Arizona

*Recent Workforce Trends in Orthopedic Surgery: Overall Attrition is Increasing, Yet Female Orthopedic Surgeons are Leaving More Frequently and Much Earlier in Their Careers*

**Galvin Loughran, MD**

Stanford University

*Effect of Ulnar Collateral Ligament Reconstruction on Off-Speed Pitch Performance in MLB Pitchers*

**Ellen L. Tsay, MD**

University of California San Francisco

*Early Clinical Outcomes of "Lemon-Dropped" Complex Primary Total Joint Arthroplasty Patients to a Tertiary Care Center*

### Presenters' Choice

**Bryan Ang, MD**

Lenox Hill Hospital, Northwell Health

*Can Discharge Radiographics Predict Junctional Complications? A Decision Tree Analysis*

## STEADMAN PHILIPPON RESEARCH INSTITUTE FELLOWS

### First Place

**Maximilian Hinz, MD**

The Steadman Philippon Research Institute (SPRI)

*Malrotated Lateral Knee Radiographs Do Not Allow for A Proper Assessment of Medial or Lateral Posterior Slope*

### Second Place

**Mark E. Cinque, MD**

The Steadman Philippon Research Institute (SPRI)

*Clinical Differences Between Medial and Lateral Sided Knee Dislocations at 10-year Follow-up*

**Ajay Kanakamedala, MD**

The Steadman Philippon Research Institute (SPRI)

*Distal Clavicle Excision is not Associated with Adverse Outcomes After Reverse Total Shoulder Arthroplasty*

### Third Place

**Haruki Nishimura, MD, PhD**

The Steadman Philippon Research Institute (SPRI)

*Fisetin Treated Human Bone Marrow Aspirate Concentrate on Osteoarthritis Rats*

**Michael G. Rizzo, MD**

The Steadman Philippon Research Institute (SPRI)

*The Performance of ChatGPT on Orthopaedic In-Service Training Exams: A Comparative Study of the GT-3.5 Turbo and GPT-4 Models in Orthopaedic Education*

**Kohei Yamaura, MD, PhD**

The Steadman Philippon Research Institute (SPRI)

*A Unique Golf Ball-Like Cartilage Morphology of the Femoral Head-Neck Junction in Patients with Femoroacetabular Impingement Syndrome*

### Presenters' Choice

**Phob Ganokroj, MD**

The Steadman Philippon Research Institute (SPRI)

*Biomechanical Evaluation of the Two Different Levels of Coracoid Graft Positions in the Latarjet Procedure for Anterior Shoulder Instability*



## WESTERN

### First Place

**Brendan Shi, MD**

University of California, Los Angeles

*Bisphosphonate Chaperones Effectively Target the Enthesis Without Impairing Soft Tissue-to-Bone Repair Integrity*

### Second Place

**Christian Blough, MD**

Cedars-Sinai

*Hormonal Contraceptives Protect Against Ligament Injuries in Female Athletes*

**Brendon Mitchell, MD**

University of California, San Diego

*Danger Zone in Anterolateral Plate Fixation of the Distal Tibia – A 3D CT Angiography Model*

### Third Place

**Samy Gabriel, MD**

University of California, San Diego

*The Effect of Adjacent Level Osteophytes on Proximal Junctional Kyphosis After Multi-Level Thoracolumbar Fusions*

**Michael Hachadorian, MD**

University of California, San Diego

*Association Between Same-Day Discharge Shoulder Arthroplasty and Risk of Adverse Events in Patients with American Society of Anesthesiologists Classification  $\geq 3$ : A Cohort Study*

**Rishi Trikha, MD**

University of California, Los Angeles

*A Systematic Review of Trainee Ethnic and Gender Diversity in Orthopaedic Surgery and Other Surgical Subspecialties*

### Presenters' Choice

**Richard W. Lang III, MD**

Naval Medical Center San Diego

*Cervical Spine Conditions in United States Military Aviators: A 19-Year Retrospective Cohort*

## NORTHEAST

### First Place

**Mitchell Ng, MD**

Maimonides Medical Center

*Liposomal Bupivacaine Does Not Decrease Post-Operative Pain in Patients with Intracapsular Femoral Neck Fracture Treated with Hemiarthroplasty: A Double-Blinded Randomized, Controlled Trial*

### Second Place

**Bijan Dehghani, MD**

University of Pennsylvania

*Defining In Vitro and In Situ Thresholds for Tension Activated Repair Patches*

**Gergo Merkely, MD, PhD**

Harvard Combined Orthopaedic Residency Program

*Identifying Anterior Cruciate Ligament Injuries Through Automated Video Analysis of In-Game Motion Patterns*

### Third Place

**Troy Amen, MD**

The Hospital for Special Surgery

*Evaluation of Racial, Ethnic, and Socioeconomic Disparities as an Indication for Carpal Tunnel Release*

**David N. Bernstein, MD**

Harvard Combined Orthopaedic Residency Program

*Do Commonly Used Geographically Based Social Determinant of Health (SDoH) Indices Measure the "Same Thing," and Which is Best in Orthopaedic Surgery?*

**David S. Liu, MD**

Harvard Combined Orthopaedic Residency Program

*Effect of Vitamin D In Prevention and Treatment of Pediatric Fractures*

### Presenters' Choice

**Julie Retzky, MD**

The Hospital for Special Surgery

*Lateral Extra-Articular Tenodesis is Associated with Improved Graft Maturity on MRI Two Years Following Anterior Cruciate Ligament Reconstruction with Quadriceps Tendon Autograft in Skeletally Immature Athletes*

## SOUTHWEST

### **First Place**

**Junho Ahn, MD**

University of Texas Southwestern Medical Center

*Early Clinical Outcomes of Osteochondral Allograft for Capitellar Osteochondritis Dissecans in Adolescent Athletes*

### **Second Place**

**Olivia Barron, MD**

Baylor College of Medicine

*Etiology of Acute Extremity Pediatric Compartment Syndrome: A Retrospective Review*

**Semran Thamer, MD**

University of Texas at Austin Dell Medical School

*The Relationship Between the Timing of Knee Osteoarthritis Diagnoses and Arthroscopic Partial Meniscectomy*

### **Third Place**

**Kathleen Lundquist, MD**

University of Texas Health Science Center, San Antonio

*Comparing Fixation Techniques in Metacarpal Fractures: Intramedullary Screw versus Open Reduction Internal Fixation*

**Tyler Williamson, MD**

University of Texas Health Science Center, San Antonio

*The Fragility of Statistical Significance in the Use of Aspirin in Prevention of Venous Thromboembolism Events Following Hip Fracture Surgery: A Systematic Review*

**Qais Zai, MD**

University of Texas at Austin, Dell Medical School

*Factors Associated with Incidence and Recurrence of Lower Back Pain: A Large Population Analysis of the UK Biobank*

### **Presenters' Choice Award**

**Stephanie Price, MD**

University of Texas at Austin, Dell Medical School

*Long Leg Cast Versus Hinged Knee Brace Immobilization After Surgical Treatment of Tibial Tubercle Fractures*

## CALIFORNIA ORTHOPAEDIC ASSOCIATION ANNUAL MEETING

**Garrett Berger, MD**

University of California, San Diego

*Safe and Effective Aspirations and Nerve Blocks for the On-Call Orthopaedic Surgeons*

## MINNESOTA ORTHOPAEDIC SOCIETY ANNUAL MEETING

**Ryan T. Conyer, MD**

Mayo Clinic

*Hemiarthroplasty versus Total Shoulder Arthroplasty in B2 Glenoids with an Intact Rotator Cuff: A Long-Term Matched Cohort Analysis*

**Nicholas Reiners, MD**

University of Minnesota, Gillette Children's Hospital

*Pediatric Hip Deformity from Legg Calve Perthes Disease: Assessing Trends in Treatment Over Time*

# 2023 OREF GRANT PROGRAM VOLUNTEERS

## RESEARCH GRANTS COMMITTEE

Francis Y. Lee, MD, PhD, *Chair*  
Nicholas M. Bernthal, MD,  
*Vice Chair*  
Brian Feeley, MD  
Eric R. Henderson, MD  
Joshua J. Jacobs, MD  
Marci D. Jones, MD  
Philipp Leucht, MD, PhD

Andrew N. Pollak, MD  
Thomas P. Sculco, MD  
Matthew J. Silva, PhD  
Brian Snyder, MD  
Timothy Wright, PhD

Brian Johnstone, PhD  
*Senior Advisor*

## GRANT PROGRAM DIRECTORS

Theodore Blaine, MD  
Thomas L. Clemens, PhD  
James Ficke, MD  
James D. Heckman, MD  
Brian Johnstone, PhD  
Marci D. Jones, MD  
John D. Kelly, MD

Francis Y. Lee, MD, PhD  
Elena Losina, PhD  
Addisu Mesfin, MD  
Andrew Pollak, MD  
Brian Snyder, MD, PhD

## PEER REVIEWERS

Yousef Abu-Amer, PhD  
Elizabeth Ackerman, MD  
Muyibat Adelani, MD  
Julie Agel, ATC  
Jorge Almodovar, PhD  
Kai-Nan An, PhD  
Hiroshi Asahara, MD, PhD  
Won C. Bae, MD  
Chelsea Bahney, PhD  
George R. Beck Jr., PhD  
Claire Beimesch, MD  
Pallavi Bhattaram, PhD  
Nidhi Bhutani, PhD  
Fabrizio Billi, PhD  
J. David Blaha, MD  
Joel Boerckel, PhD  
Friedrich Boettner, MD  
Michael Bosse, MD  
Matthew Cable, MD  
Claudia M. Campbell, PhD  
Cathy Carlson, DVM, PhD, DACVP  
Emily Carmody, MD  
James Carpenter, MD, MHSA  
Yupeng Chen, PhD  
Blaine Christiansen, MD  
Christine Chung, MD  
Roger Cornwall, MD  
J.J. Trey Crisco, PhD  
Constantine Demetracopoulos, MD  
Kathleen Derwin, PhD  
John Desjardins, PhD

Michael S. Detamore, PhD  
John R. Dimar II, MD  
Lutul Farrow, MD  
Brian Feeley, MD  
Yale A. Fillingham, MD  
Charla R. Fischer, MD, FAOA  
Christopher Fry, PhD  
Paul B. Gladden, MD  
Michael Gottschalk, MD  
Jo Hannafin, MD, PhD  
Mitch Harris, MD  
Shayne Hauglum, PhD, CRNA, ARNP  
Annamarie D.  
Horan, MPA, PhD, CCRC, CPI  
Matthew T. Houdek, MD  
Kelly Hynes, MD  
Motomi Iwamoto, PhD  
Cale A. Jacobs, PhD  
S. Reza  
Jafarzadeh, DVM, MPVM, PhD  
Hae Lin Jang, PhD  
Saeed Jerban, PhD  
Anish R. Kadakia, MD  
Jillian Kazley, MD  
Ata Kiapour, PhD  
Meghan Kirksey, MD, PhD  
Thorsten Kirsch, PhD  
John Koerner, MD  
Cassandra Lee, MD  
Natalie Leong, MD  
Phillip Leucht, MD  
Valerae O. Lewis, MD, FAOA, FAAOS

Bingyun Bing Li, PhD  
Xudong Joshua Li, MD, PhD  
Zong-Ming Li, PhD  
Gabiella Lindberg, PhD  
Xuhui Liu, MD  
Wai Hong Kevin Lo, PhD  
Mario Henrique  
LobaoGoncalves, MD  
Jeffrey C. Lotz, PhD  
Benjamin Ma, MD  
Lisa MacFadden, PhD  
Gregory B. Maletis, MD  
Lucas Marchand, MD  
Meir Marmor, MD, FAAOS, FACS  
Paul E. Matuzewski, MD  
John P. Meehan, MD  
Vihang A. Narkar, PhD  
Ara Nazarian, PhD  
Mai P. Nguyen, MD  
Ogonna Kenechi Nwawka, MD  
Jeffrey S. Nyman, PhD  
Maureen O'Shaughnessy, MD  
J. Patrick O'Connor, PhD  
Miguel Otero, PhD  
Robert O'Toole, MD  
Kwadwo Owusu-Akyaw, MD  
Frank Petrigliano, MD  
Christine Pham, MD  
Marc J. Philippon, MD  
Kristen Renner, PhD  
Scott Rodeo, MD  
Robert Sah, MD

Lori Schirle, PhD, CRNA  
Thomas P. Sculco, MD  
Babar Shafiq, MD, MSPT, FAOA  
Andrew Sheean, MD  
Jie Shen, PhD  
Alexandra Sideris, PhD  
Karin Gravare  
Silbernagel, PT, ATC, PhD  
Peter Simon, PhD  
Gerard Slobogean, MD  
Thomas L. Smith, PhD  
Brian Snyder, MD  
Susan Stephens, MD  
Daniel Stinner, MD  
Jason Strelzow, MD, FRCSC  
Rachel K. Surowiec, PhD  
Francesca Taraballi, PhD  
Scott Tashman, PhD  
Paul Toogood, MD  
Wakenda K. Tyler, MD  
Meghan Vidt, PhD  
Emily Wagstrom, MD  
Hai Wang, PhD  
Lawrence Wells, MD  
Gerald R. Williams Jr., MD, FAAOS  
Jennifer Wolf, MD, PhD  
Zachary Working, MD  
Timothy Wright, PhD  
Rosanna Wustrack, MD  
Xiaojun Yu, PhD

The Orthopaedic Research and Education Foundation (OREF) is an independent 501(c)(3) non-profit organization committed to improving clinical practice and patient outcomes by funding outstanding research and mentoring new investigators to improve the lives of patients with musculoskeletal conditions.

Since its founding, OREF has provided nearly \$150 million in orthopaedic research grants and awards. Our active grant portfolio totals 107 research grants with a value of \$8.3 million. Current funding opportunities and a list of awarded grants may be accessed at [www.oref.org/grants](http://www.oref.org/grants).



9400 West Higgins Road • Suite 215  
Rosemont, Illinois 60018-4975  
[oref.org](http://oref.org)



@OREFtoday