

# JUSTIN T. SMITH, MD, FAANA, FAAOS

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## PRACTICE/BUSINESS

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<b>Journey Orthopaedic Institute, LLC</b> <i>Founder, CEO, Orthopaedic Sports Surgeon</i>	Dec 2025
<b>TurnKey AI Practice, Inc</b> <i>Founder, CEO</i>	Sept 2025
<b>Morning Rounds Coffee, LLC</b> <i>Co-Founder</i>	Oct 2021
<b>Atrium Health Musculoskeletal Institute</b> <i>Orthopaedic Surgery Sports Medicine Surgeon - Charlotte, NC</i>	Sept 2022-Dec 2025

## EDUCATION

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<b>Steadman Hawkins Clinic of the Carolinas</b> <i>Orthopaedic Surgery Sports Medicine Fellow</i>	July 2022
<b>Beaumont Health System</b> <i>Orthopaedic Surgery Resident Physician</i>	June 2021
<b>Northwestern University Feinberg School of Medicine</b> <i>Orthopaedic Surgery Research Fellowship</i>	Oct 2016
<b>Oakland University William Beaumont School of Medicine</b> <i>Doctor of Medicine</i>	May 2016
<b>University of Georgia</b> <i>Bachelors of Science in Genetics, Franklin College of Arts &amp; Sciences</i>	May 2012

## LICENSURE/CERTIFICATION

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American Board of Orthopaedic Surgery, Orthopaedic Sports Board Certified	2025-Present
American Board of Orthopaedic Surgery, Orthopaedic Surgery Board Certified	2024-Present
North Carolina Medical Doctorate Licensure	2022-Present
South Carolina Medical Doctorate Licensure	2021-Present
Controlled Substances Licensure, South Carolina	2021-Present
Michigan Medical Doctorate Licensure	2019-Present
Controlled Substances Licensure III, Michigan	2019-Present
DEA License	2019-Present
ACLS	2021-Present
Basic Cardiac Life Support	2012-Present
Michigan Educational Limited Licensure	2016-2019
Controlled Substances Licensure I, Michigan	2016-2019
United States Medical License Examination (Identification number 41193590)	2014

# JUSTIN T. SMITH, MD

## PROFESSIONAL MEMBERSHIPS

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South Carolina Orthopaedic Society	2024-Present
Hawkins Society	2022-Present
AOSSM Emerging Leaders	2021-Present
AOA Emerging Leaders	2020-Present
Capitol Club, AAOS PAC	2018-Present
Arthroscopic Association of North America	2018-Present
American Orthopaedic Society for Sports Medicine	2018-Present
American Academy of Orthopaedic Surgeons	2016-Present
Mid-America Orthopaedic Association	2017-2023
Orthopaedic Research Society	2016-2023
Michigan Orthopaedic Society	2016-2023
American Medical Association	2012-2023
University of Georgia Honors Society	2010-2012

## AWARDS/HONORS

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Journey Award from Richard Hawkins, MD	2025
AOA C. McCollister Evarts Resident Leader	2020
Certificate of Advanced Training in Medical Education	2019
DePuy Synthes Resident Education Grant	2018-2019
AMA Physicians of Tomorrow Scholarship Nominee	2015-2016
OUSB Medical School Outstanding Achievement Scholarship	2012-2016
Graduated Cum Laude from the University of Georgia	May 2012
University of Georgia Dean's List Recipient	2009-2012
University of Georgia Center for Undergraduate Research Grant	2011
Helping Others Pursue Education & Zell Miller Scholarship	2008-2012

## PROFESSIONAL DEVELOPMENT

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Charlie DeCook, MD Shadowing ASC OR Efficiency Model	2025
AAOS Annual Meeting, San Diego, CA	2025
PIMDCON, Newport Beach, CA	2025
South Carolina Orthopaedic Society Annual Meeting, Charleston, SC	2025
KEOMT International Course, Zaragoza, Spain	2025
Peerless Regional Education Meeting, Charlotte, NC	2025
Hawkins Society Annual Meeting, Hilton Head, SC	2025
Grinnell Leadership Course, Wilmington, NC	2025
ASES Annual Meeting, San Antonio, TX	2024
North Carolina Orthopaedic Society Annual Meeting, Charlotte, NC	2024
Enovis Revision Shoulder Arthroplasty Course, Naples, FL	2024
AANA Annual Meeting, Boston, MA	2024
Hawkins Society Annual Meeting, Hilton Head, SC	2024
Arthrex Team Physicians Controversies Course, Naples, FL	2024
AAOS Annual Meeting & ASES Specialty Day, Las Vegas, NV	2023
Arthrex Team Physicians Controversies Course, Naples, FL	2023

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Hawkins Society Annual Meeting, Hilton Head, SC	2023
ASES Annual Meeting, Atlanta, GA	2022
Arthrex Orthopaedic Surgery Fellows Course, Naples, FL	2022
Hawkins Society Annual Meeting, Hilton Head, SC	2022
Don Joy Orthopaedics Orthopaedic Surgery Fellows Course, Tampa, FL	2022
AAOS Annual Meeting & AANA/AOSSM Specialty Day, Chicago, IL	2022
Depuy-Synthes Orthopaedic Surgery Fellows Course, Austin, TX	2021
Advanced Hip Arthroscopy Cadaver Lab with Dr. Ira Zaltz, Royal Oak, MI	2020
AOSSM Virtual Annual Meeting, Virtual	2020
AOSSM The Athlete's Hip Course, Virtual	2020
AAOS Annual Meeting & AANA/AOSSM Specialty Day, Virtual	2020
AAOS Surgical Treatment of the Pre-Arthritic Hip, Chicago, IL	2019
10 <sup>th</sup> Annual Feagin Leadership Forum, Duke University, Durham, NC	2019
44 <sup>th</sup> Annual Greenville Orthopaedic Day with Dr. Bob Anderson & Dr. Michael Pinzur, Greenville, SC	2019
Zimmer Biomet Great Lakes Resident Educational Site Visit/Cadaver Lab, Warsaw, IN	2019
Introduction to Hip Arthroscopy Cadaver Lab with Dr. Ira Zaltz, Royal Oak, MI	2019
Arthrex Shoulder Arthroscopy Cadaver Lab, Troy, MI	2019
Michigan Orthopaedic Society Annual Meeting, Traverse City, MI	2019
AAOS Annual Meeting & AANA/AOSSM Specialty Day, Las Vegas, NV	2019
Arthrex Knee Arthroscopy Cadaver Lab, Troy, MI	2018
AANA Basics of Arthroscopy Lab, Chicago, IL	2018
Zimmer-Biomet National Residents Course, Chicago, IL	2018
AO Basic Resident Fracture Course, Madison, WI	2018
AO Principles of Fracture Care, Kalamazoo, MI	2017
ORS Annual Meeting, San Diego, CA	2017
Dallas Orthotics and Prosthetics Course, Dallas, TX	2016

## SPORTS COVERAGE

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### Team Physician Coverage (Professional, College, High School)

NCAA D1 Winthrop College Athletics	2023-2025
York County South Carolina High Schools	2022-2025
MLB Majors and Minors, Colorado Rockies Baseball	2022
MLB High-A Minor League, Greenville Drive, Boston Red Sox	2022
USL-W Pre-Professional Women Soccer League, Greenville Liberty	2022
NCAA D1 Clemson University Football	Fall 2021
NCAA D1 University of Georgia Football	Fall 2021
NCAA D2 North Greenville University Football, Baseball, Lacrosse, Soccer, T&F, Tennis	2021-2022
NCAA D2 Converse College Soccer, Lacrosse, E-Sports	2021-2022
Local South Carolina High School Football	Fall 2021
Oakland County Michigan High School Football	Fall 2017-2020
MLB Independent Minor League, Michigan United Shore	Spring/Summer 2018
Detroit Tradesman D2 & D3 Rugby League	Spring 2018
Oakland Community College Women's Basketball	Winter 2017

## APPOINTMENTS

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Editor for Journal of Shoulder & Elbow Surgery	2025-Present
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# JUSTIN T. SMITH, MD

Assistant Professor, Wake Forest School of Medicine Charlotte	2024-Present
ASES AI Committee	2024-Present
ASES Technology Committee	2024-Present
AOSSM Self-Assessment Examination Committee	2022-Present
AAOS Resident Assembly Education Committee	2018-2022
AAOS Resident Assembly Patient Safety Committee	2019-2021
Orthopaedic Research, Sports Division Resident Leader, Beaumont Hospital	2019-2021
Orthopedic Resident Mental Health & Wellness Chair, Beaumont Hospital	2019-2020
Graduate Medical Education Quality and Safety Council, Beaumont Hospital	2018-2021
Trauma Care Committee, Beaumont Hospital	2018-2021
Oakland University Medical School Interviewer & Screener	2018-2020
OUSB Medical Student Orthopaedic Surgery Interest Group Faculty Advisor	2016-2021
OUSB Medical Student Orthopaedic Surgery Interest Group Senior Representative	2014-2016
OUSB Medical Student Orthopaedic Surgery Interest Group President	2013-2014
OUSB Medical Student Orthopaedic Surgery Interest Group Co-Founder	2012

## TEACHING EXPERIENCES

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WFSUM-Charlotte Orthopaedic Faculty for APP Fellowship	2025
Catalyst Orthosciences, Teaching Workshop SHCC Fellows Greenville, SC	2025
Catalyst Orthosciences, Teaching Workshop Texas Surgeons, Dallas, TX	2025
Catalyst Orthosciences, Teaching Workshop Charlotte Surgeons, Charlotte, NC	2025
Ossio FiberFest Panelist	2025
ASES Podcast "Generative Artificial Intelligence"	2024
JOEI Webinar "Super-Charge Tendon to Bone Healing: Innovative Approach for Improved Outcomes in Rotator Cuff Repairs"	2024
KEOMPT 'Bridging the Gap' Orthopaedic Surgeon Lecture Series for Physical Therapists	2023-Present
Cadaveric Orthopaedic Education Labs with Physical Therapists	2023-Present
Educational Surgical Video Series for Orthopaedic Residents	2019-Present
Research Mentor for Medical Student Capstone Project	2018-2022
Chief Resident Bioskills Chair	2020-2021
Sawbones Workshop for Medical Students	2019-2021
Casting Workshop for Medical Students	2013-2021
Residents as Teachers I: Professional Development	2018-2019
Musculoskeletal Cadaveric Presentations to Medical Students	2019
Oakland University William Beaumont School of Medicine Tutor	2013-2016
Ocoee River Raft Guide	2012
Level IV ACA Whitewater Kayak Instructor	2010-2012
University Of Georgia Center for Research Mentor	2010-2012
University Of Georgia Outdoor Recreation Instructor	2009-2012

## VOLUNTEER EXPERIENCES

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Annual Heart of a Champion High School Sports Physical, Charlotte, NC	2023
COVID-19 Medical Floor Care, Royal Oak, MI	March-May 2020
"Bones & Playgrounds" Playground Build, Detroit MI	Oct 2012-Present
Marygrove College's Art Mural Painting, Detroit MI	2014-2016

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Indoor Triathlon Annual Fundraiser For Rebuilding Detroit, Detroit MI	2013-2014
Men's Health Day, Detroit MI	2013-2014
MLK Day Annual Volunteering, Detroit MI	2012-2014
Medical Mission Abroad, San Jose Costa Rica	2012

## PUBLICATIONS

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### *Peer Reviewed Journal Publications*

Hinckel, B. Conte, P. **Smith, JT.** Nakamura, N. Kon, E: Patellofemoral Instability Part III (Patellofemoral Cartilage Treatment): State of the Art. *Journal of ISAKOS*. 2025

Hinckel, B. Liebensteiner, M. **Smith, JT.** Gobbi, R. Arendt, E.: Patellofemoral Instability Part II Bony Procedure for Patellar Surgical Stabilization. *Journal of ISAKOS*. 2025

**Smith, JT.** Hinckel, B. Takehiko, M. Martinez-Cano, JP: Patellofemoral Instability Part I (When to operate and soft tissue procedures): State of the Art. *Journal of ISAKOS*. 2024

Floyd, SB. Walker, JT. **Smith, JT.** Jones, PE. Boes, N. Lindros, S. Carroll, M. Brooks, JM. Thigpen, C. Pill, S. Kissenberth, M: Electronic Health Record ICD-10 Diagnosis Coding for Proximal Humerus Fracture Does Not Accurately Capture Fracture Complexity Required for Comparative Effectiveness Research. *JSES*. 2023

**Smith, JT.** Pill, S. Eggert, K. Birgnull, C. Adams, K. Wyland, D. Tolan, S. Thigpen, C. Kissenberth, M: Corticosteroids Injections Prior to Surgery Had No Effect on 2 Year Outcomes Following Arthroscopic Rotator Cuff Repair. *JSES International*. 2023

**Smith, JT.** Jee, Y. Erika, D. Koueiter, D. Beck, M. Zaltz, I: Can the femoro-epiphyseal acetabular roof (FEAR) index be used to distinguish dysplasia from impingement. *CORR*. 2021.

Mai, HT. Schneider, AD. Alvarez, AP. Hashmi, SZ. **Smith, JT.** Freshman, RD. Qin, CD. Hsu, WK: Anatomic considerations in the lateral trans-psoas interbody fusion: the impact of age, gender, BMI and scoliosis. *Clinical Spine Surgery*. 2018.

**Smith, JT.** Schneider, AD. Katchko, KM. Yun, C. Hsu, EL: Effects of environmental factors on chemokines relevant to bone healing. *Frontiers in Endocrinology*. 2017; 8:22.

Lee, SS. Fyrner, T. Chen, F. McClendon, MT. Chun, DS. Weiner, JA. Freshman, RD. Cook, RW. Schallmo, MS. **Smith, JT.** Schneider, AD. Katchko, KM. Singh, S. Yun, J. Yun, C. Stock, SR. Stupp, SI. Hsu, EL. Hsu, WK: Glycomimetic supramolecular assemblies for heparin binding proteins. *Nature Nanotechnology*. 2017.

Carte, J. Christopher, RT. **Smith, JT.** Olson, S. Barrangou, R. Moineau, S. Glover III, C. Graveley B.R. Terns, RM. Terns, MP: The three major types of CRISPR-Cas systems function independently in CRISPR RNA biogenesis in *Streptococcus thermophilus*. *Molecular Microbiology*. 2014; 93:98-112.

### *Peer Reviewed Video Publications*

# JUSTIN T. SMITH, MD

Colbath, G. Wolfgang, S. **Smith, JT**: Innovative Technique for Onlay Bioinductive Scaffold Delivery and Fixation in Rotator Cuff Repair : The Wolfpatch Method. *AAOS Orthopaedic Video Theatre Plus*. March 2025. (pending publication)

**Smith, JT**. Jones, P. Kissenberth, M: Arthroscopic Capsulolabral Repair for Posterior Shoulder Instability. *AAOS Orthopaedic Video Theatre Plus*. March 2023.

**Smith, JT**. Acker, WB: Anterior Closing Wedge Anterior High Tibial Osteotomy for Correction of Posterior Tibial Slope. *AAOS Orthopaedic Video Theatre Plus*. March 2022.

**Smith, JT**. Zaltz, I: Surgical hip dislocation surgical technique. *AAOS Orthopaedic Video Theatre Plus*. Aug 2021.

**Smith, JT**. Zaltz, I: Periacetabular osteotomy for treatment of hip dysplasia. *AAOS Orthopaedic Video Theatre Plus*. Aug 2021.

**Smith, JT**. Arveschoug, A. Guettler, J: Medial patellofemoral ligament (MPFL) repair surgical technique. *AAOS Orthopaedic Video Theatre Plus*. Aug 2021.

**Smith, JT**. Wiater, P: Open reduction and internal fixation of a proximal one-third humeral shaft fracture. *AAOS Orthopaedic Video Theatre Plus*. Aug 2021.

Zein, E. **Smith, JT**. Ciufu, D. Fortin, P. Total talus arthroplasty. *AAOS Orthopaedic Video Theatre Plus*. Aug 2021.

Swank, KR. **Smith, JT**. Shapiro, P: Open reduction internal fixation of distal radius fractures using the Kapandji technique. *American Society for Surgery of the Hand (ASSH) Video Theater*. Oct 2020.

**Smith, JT**. Diao, E. Shapiro, P: Meniscal allograft arthroplasty for the treatment of CMC arthritis of the thumb. *AAOS Orthopaedic Video Theatre Plus*. March 2020.

## ***Published Book Chapters***

**Smith, JT**. Hinckel, B. Tanaka, M. Arendt, EA. Andrade, R. Espregueira-Mendes, J: “Advances in Patellofemoral Disorders”. *The Patellofemoral Joint*. ISAKOS. 2022

## ***Journal Papers in Review***

Kropf, E. Parshall, D. Moorman, CT. **Smith, JT**.: MCL Repair with Internal Brace demonstrates equivalent biomechanical strength to Native MCL. *AJSM*. 2025

**Smith, JT**. Weisz, K. Tooley, T. Wihelm, S. Yilmaz, A. Graham, S. Baker, EA. Baker, KC. Wiater, JM: Circulating biomarkers of bone metabolism in shoulder arthroplasty patients undergoing revision surgery for Implant Loosening. *JSES*. 2025

## ***Acknowledgements***

# JUSTIN T. SMITH, MD

Krauss, JR. Smith CB. Evjenth, O: Spinal Orthopaedics Lab Manual – Translatory Spinal Manipulation Edition. Lakeview Media, Rochester Hills, MI 2019. ISBN: 978-1599751955.

## *Pending Abstracts/Publications*

**Smith, JT.** et al: Bio-Integrative, Fiber-Reinforced Kneebar for Treating Subchondral Insufficiency of the Knee. *AJSM*. 2025 (Multicenter Study)

**Smith, JT.** Parshall, DP. Kropf, E. Moorman, CT. Internal Brace Augmentation of MCL Repair Biomechanically Restoring Native Ligament Strength. *AJSM* 2025

**Smith, JT.** Parshall, DP. Kropf, E. Moorman, CT. et al. Surgical Timing and Rehabilitation (STaR) Trial for Multiligamentous Knee Injuries (Multicenter Study)

**Smith, JT:** Blood Flow Restriction Therapy increasing Anti-Inflammatory Factors in Platelet-Rich Plasma. *AJSM*. 2026

Sargent, T. **Smith, JT.** Smith, CB. Kraus, J. Wiater, JM: Defining functional shoulder range of motion in middle-aged to elderly populations. *JSES*. 2026

## PRESENTATIONS

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**Smith, JT:** Expert Talk- The Role of Artificial Intelligence in Orthopaedic Sports Medicine. *South Carolina Orthopaedic Society Annual Meeting*; Charleston, SC. August 2025.

**Smith, JT:** Advances in Technology and AI. Ruthless Evolution – Peerless (Arthrex) Annual Kickoff Event; Charlotte, NC. July 2025.

Shahzad A, Sell TC, Lennon AR, Cuadra M, **Smith JT**, Parshall DM, Kropf E, Moorman CT, Bradford L. The Graft Draft: A Retrospective Study on Patient Demographics and Anterior Cruciate Ligament Reconstruction Tendon Choice in an Institutional Cohort. Poster presented at: 2025 National Medical Association Conference; July 2025; Chicago, IL.

**Smith, JT:** Blending Technology and Modern Surgical Technique. *KEOMT Bi-Annual International Meeting*. Zaragoza, Spain. June 2025.

**Smith, JT:** Update on Artificial Intelligence (AI) in Orthopaedic Surgery. *Hawk Society Annual Meeting*. Hilton Head, SC. April 2025.

Wolfgang, S. **Smith, JT.** Colbath, G: Innovative Technique for Onlay Bioinductive Scaffold Delivery and Fixation in Rotator Cuff Repair: The ‘Wolfpatch Method’. *Shoulder 360*. Miami, FL. April 2025.

**Smith, JT:** Enhancing Postoperative Rehabilitation Following Arthroscopic Rotator Cuff Repair: Integrating Telehealth and Multidisciplinary Collaboration. *APTA Annual Meeting*. Houston, TX. 2025

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**Smith, JT:** Artificial Intelligence (AI) in Sports Medicine. *North Carolina Orthopaedic Society Annual Meeting*. Charlotte, NC. Oct 2024.

**Smith, JT:** Artificial Intelligence (AI) in Orthopaedics. *Hawk Society Annual Meeting*. Hilton Head, SC. May 2024.

**Smith, JT:** Videography in Orthopaedics. *AAOS Annual Meeting*. Las Vegas, NV. March 2023.

**Smith, JT.** Pill, S. Eggert, K. Birgnull, C. Adams, K. Wyland, D. Tolan, S. Thigpen, C. Kissenberth, M: Corticosteroids Injections Prior to Surgery Had No Effect on 2 Year Outcomes Following Arthroscopic Rotator Cuff Repair. *ASES Annual Meeting*. Atlanta, GA. October 2022.

**Smith, JT.** Pill, S. Eggert, K. Birgnull, C. Adams, K. Wyland, D. Tolan, S. Thigpen, C. Kissenberth, M: Corticosteroids Injections Prior to Surgery Had No Effect on 2 Year Outcomes Following Arthroscopic Rotator Cuff Repair. *ASES San Diego Shoulder Course*. San Diego, CA. June 2022.

Sargent, T. **Smith, JT.** Smith, CB. Kraus, J. Wiater, JM: Defining Functional Shoulder Range of Motion in Middle-aged to Elderly Populations to Guide Operative Shoulder Treatment. *AAOS Annual Meeting*. San Diego, CA. Aug 2021.

Sargent, T. **Smith, JT.** Smith, CB. Kraus, J. Wiater, JM: Defining Functional Shoulder Range of Motion in Middle-aged to Elderly Populations to Guide Operative Shoulder Treatment. *Michigan Orthopaedic Society Annual Meeting*. Mackinaw Island, Michigan, June 2020.

**Smith, JT.** Jee, Y. Koueiter, D. Zaltz, I: Femoro-Epiphyseal Acetabular Roof (FEAR) Index: A Reanalysis. *Michigan Orthopaedic Society Annual Meeting*. Mackinaw Island, Michigan, June 2020.

Shapiro, P. **Smith, JT.** Swank, K. Diao, D: Meniscal Allograft Arthroplasty for the Treatment of Trapeziometacarpal Arthritis of the Thumb. *FESSH-EFSHT Congress*. Basel, Switzerland, June 2020.

**Smith, JT.** Jee, Y. Koueiter, D. Zaltz, I: Evaluating Stability in Borderline Hip Dysplasia using the Femoro-Epiphyseal Acetabular Roof Index. *AANA Annual Meeting*. Grapevine, TX, May 2020.

Jee, Y. **Smith JT.** Kalma, J. Siljander, M. Koueiter, DM. Omari, A. Karadsheh, MS: Soft Tissue Envelope Around the Surgical Site of Total Knee Arthroplasty Is Associated with Rate of Wound Complications. *AAOS Annual Meeting*. Orlando, FL, March 2020.

Zaltz, I. **Smith, JT.** Jee, Y. Koueiter, D: Femoro-Epiphyseal Acetabular Roof (FEAR) Index: A Reanalysis. *Bern Hip Symposium*. Bern, Switzerland, February 2020.

Jee, Y. **Smith JT.** Kalma, J. Siljander, M. Koueiter, DM. Omari, A. Karadsheh, MS: Soft Tissue Envelope Around the Surgical Site of Total Knee Arthroplasty Is Associated with Rate of Wound Complications. *AAHKS Annual Meeting*. Dallas, Texas, November 2019.

**Smith, JT.** Koueiter, D. Zaltz, I: Guiding Diagnosis and Treatment in Borderline Hip Dysplasia using the Femoro-Epiphyseal Acetabular Roof (FEAR) Index. *Michigan Orthopaedic Society Annual Meeting*. Traverse City, Michigan, June 2019.

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Yun, C. Schneider, AD. **Smith, JT.** Katchko, KM. George, A. Yun, J. Nehal, S. Lee, S. Freshman, RD. Hsu, WK. Hsu, EL: Cigarette Smoke-Induced Inhibition of Osteogenesis through involvement of the Aryl Hydrocarbon Receptor. *Global Spine Congress Annual Meeting*. MiCo Milano Congressi, Milan, Italy. May 2017.

**Smith, JT.** Jakus, A. Katchko, KM. Schneider, AD. Chun, DS. Weiner, JA. Cook, RW. Schallmo, MS. Newton, M. Maerz, T. Baker, K. Shah, R. Hsu, WK. Hsu, EL: 3D-printed Hyperelastic Bone Composite Scaffold for Spinal Fusion using a Novel Ceramic-demineralized Bone Matrix Biomaterial Ink. *Global Spine Congress Annual Meeting*. MiCo Milano Congressi, Milan, Italy. May 2017.

Wilhem, S. **Smith, JT.** Baker EA. Wiater, JM. Baker, KC: Circulating Biomarkers of Bone Metabolism in Shoulder Arthroplasty Patients Undergoing Revision Surgery for Implant Loosening. *Mid-America Orthopaedic Association 2017 Annual Meeting*. Amelia Island, Florida. April 2017.

Yun, C. Schneider, AD. Katchko, KM. **Smith, JT.** George, A. Yun, J. Nehal, S. Lee, S. Freshman, RD. Hsu, WK. Hsu, EL: Cigarette Smoke-Induced Inhibition of Bone Regeneration through the Aryl Hydrocarbon Receptor. *Society of Toxicology Annual Meeting*. Baltimore Convention Center, Baltimore, Maryland. March 2017.

Schneider, AD. Jakus, A. **Smith, JT.** Katchko, KM. Chun, DS. Weiner, JA. Cook, RW. Schallmo, MS. Newton, M. Maerz, T. Baker, K. Shah, R. Hsu, WK. Hsu, EL: Development of a Ceramic-Demineralized Bone Matrix Biomaterial Ink for 3D-printing of Hyperelastic Bone Composite Scaffolds for Spinal Fusion. *Orthopaedic Research Society Annual Meeting*. San Diego Convention Center, San Diego, CA. March 2017.

**Smith, JT.** Lee, SS. Fyrner, T. McClendon, MT. Katchko, KM. Schneider, AD. Chun, DS. Weiner, JA. Cook, RW. Schallmo, MS. Freshman, RD. Singh, S. Yun, J. Yun, C. Stock, SR. Stupp, SI. Hsu, EL. Hsu, WK: A Trisulfated Glycosylated Peptide Amphiphile Nanofiber Scaffold for Spinal Arthrodesis. *Orthopaedic Research Society Annual Meeting*. San Diego Convention Center, San Diego, CA. March 2017.

Yun, C. Katchko, KM. Schneider, AD. **Smith, JT.** George, A. Yun, J. Nehal, S. Lee, S. Freshman, RD. Hsu, WK. Hsu, EL: Dioxin inhibits osteogenic differentiation of human osteoblast-like MG-63 cells. *Orthopaedic Research Society Annual Meeting*. San Diego Convention Center, San Diego, CA. March 2017.

**Smith, JT.** Wilhelm, S. Baker EA. Wiater, JM. Baker, KC: Serum Bone Turnover Biomarkers in Revision Surgery for Shoulder Arthroplasty Loosening. *Orthopaedic Research Society Annual Meeting*. San Diego Convention Center, San Diego, CA. March 2017.

Katchko, KM. Lee, SS. McClendon, MT. **Smith, JT.** Schneider, AD. Chun, DS. Weiner, JA. Cook, RW. Schallmo, MS. Freshman, RD. Stupp, SI. Hsu, EL. Hsu, WK: Peptide Amphiphile NanoSlurry as an Improved BMP-2 Carrier for Spinal Arthrodesis. *Orthopaedic Research Society Annual Meeting*. San Diego Convention Center, San Diego, CA. March 2017.

Yun, C. **Smith, JT.** Katchko, KM. Schneider, AD. George, A. Yun, J. Nehal, S. Lee, S. Freshman, RD. Hsu, WK. Hsu, EL: Involvement of the Aryl hydrocarbon receptor in cigarette smoke-induced inhibition of bone regeneration. *Orthopaedic Research Society Annual Meeting*. San Diego Convention Center, San Diego, CA. March 2017.

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**Smith, JT.** Baker EA, Wiater, JM, Baker, KC. Circulating Biomarkers of Bone Metabolism in Shoulder Arthroplasty Patients Undergoing Revision Surgery for Implant Loosening: *Orthopaedic Research Society Annual Meeting*. San Diego Convention Center, San Diego, CA. March 2017.

Katchko, KM, Lee, SS, McClendon, MT, **Smith, JT.** Schneider, AD, Chun, DS, Weiner, JA, Cook, RW, Schallmo, MS, Freshman, RD, Stupp, SI, Hsu, EL, Hsu, WK. Peptide Amphiphile-Collagen Slurry Nanogel Composite as an Improved BMP-2 Carrier for Spinal Arthrodesis: *Cervical Spine Research Society Meeting*. Westin Harbour Castle, Toronto, Ontario, Canada. December 2016.

Yun, C, Schallmo, MS, Weiner, JA, Chun, DS, Cook, RW, George, A, Yun, J, Nehal, S, Lee, S, Katchko, KM, Schneider, AD, **Smith, JT.** Freshman, RD, Hsu, WK, Hsu, EL: Involvement of the Aryl hydrocarbon receptor in cigarette smoke-induced inhibition of bone regeneration. *American Society for Bone and Mineral Research 2016 Annual Meeting*. Georgia World Congress Center, Atlanta, GA. September 2016.

**Smith, JT.** Schneider, AD, Katchko, KM, Chun, DS, Lee, SS, Fyrner, T, McClendon, MT, Weiner, JA, Freshman, RD, Cook, RW, Schallmo, MS, Singh, S, Yun, J, Yun, C, Stock, SR, Stupp, SI, Hsu, EL, Hsu, WK: Trisulfated-Glycosylated Peptide Amphiphile Nanofiber Scaffolds for Spinal Fusion. *Simpson Querrey Institute for BioNanotechnology Rising Stars Event*. Robert H. Lurie Medical Research Center, Chicago, IL. July 2016.

Schneider, AD, Katchko, KM, **Smith, JT.** Cook, RW, Jakus, A, Chun, DS, Weiner, JA, Kannan, A, Mitchell, S, Yun, C, Stock, SR, Shah, R, Hsu, WK, Hsu, EL: The Development of a 3D-Printed Hyperelastic Bone Graft Substitute for Spinal Fusion. *Simpson Querrey Institute for BioNanotechnology Rising Stars Event*. Robert H. Lurie Medical Research Center, Chicago, IL. July 2016

Katchko, KM, **Smith, JT.** Schneider, AD, Weiner, JA, Chun, DS, Lee, SS, McClendon, MT, Freshman, RD, Cook, RW, Schallmo, MS, Singh, S, Yun, J, Yun, C, Stupp, SI, Hsu, EL, Hsu, WK: Peptide Amphiphile Nanogel as an Improved BMP-2 Carrier for Spinal Arthrodesis. *Simpson Querrey Institute for BioNanotechnology Rising Stars Event*. Robert H. Lurie Medical Research Center, Chicago, IL. July 2016.

**Smith, J.T.,** Bethany, T., Wiater, J.M., & Baker, KC. Characterization of Bone Biomarkers as a Screening Tool for Aseptic Loosening after Shoulder Arthroplasty: *Oakland University William Beaumont 2016 Capstone Colloquium*. Marriott Hotel, Pontiac, MI. March 2016.

**Smith, J.T.,** Busse, E.B., Saad, M.A., Baker, EA., Gawronski, K., & Sadowski, J.B: Blood Loss, Fusion Rates and Perioperative Complications Associated with RIA for Repair of Fracture Non-Union. *AMA Annual Meeting*. Hilton Hotel, Atlanta, GA. November 2015.

**Smith, J.T.,** Bethany, T., Wiater, J.M., & Baker, KC: Bone Biomarkers as a Screening Tool for Aseptic Loosening after Shoulder Arthroplasty. *Oakland University William Beaumont School of Medicine 2014 Capstone Symposium*. Oakland University, Rochester, MI. June 2014.

**Smith, JT.** Carte, J, Terns, RM, Terns, MP: Characterization of a Putative Endonuclease-RNA Complex Involved in CRISPR-Mediated Viral Defense. *University of Georgia 2011 Annual Research Colloquium*. University of Georgia, Athens, GA. July 2011.

# JUSTIN T. SMITH, MD

## RESEARCH EXPERIENCE

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<b>Technology Editor for <i>Journal of Shoulder &amp; Elbow Surgery</i></b>	July 2025-Present
<b>Reviewer for <i>American Journal of Sports Medicine/Orthopaedic Journal of Sports Medicine</i></b>	Aug 2022-Present
<b>Reviewer for <i>Journal of Shoulder &amp; Elbow Surgery</i></b>	July 2022-Present
<b>Reviewer for <i>Video Journal of Sports Medicine</i></b>	Jan 2021-Present
<b>Hawkins Foundation Orthopaedic Research Lab</b> Sports Fellow Researcher	Greenville, SC Aug 2021-July 2022
<b>Beaumont Health Orthopaedic Research Lab</b> Resident Researcher	Royal Oak, MI Dec 2012-June 2021
<b>Northwestern University Orthopaedic Research Lab</b> Research Fellow	Chicago, IL June-Sept 2016
<b>University of Georgia Genetics Research Lab</b> Undergraduate Researcher	Athens, GA May 2010-May 2012

## HOBBIES

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Running  
Weightlifting  
Whitewater Kayaking  
Mountain Biking