**Joel C. Williams, MD**

Midwest Orthopedics at Rush

Rush University Medical Center

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**PROFESSIONAL EXPERIENCE**

2016 – present **Assistant Professor**

Orthopaedic Trauma and Hip Preservation Surgery

Department of Orthopaedic Surgery

Rush University Medical Center

Chicago, IL

**EDUCATION & TRAINING**

2015 – 2016 Hip and Pelvis Surgery Fellowship

Wyss Hip and Pelvis Center

Seattle, WA

2014 – 2015 Orthopaedic Trauma Fellowship

University of California, Davis

Sacramento, CA

2014 AO Fellowship – Orthopaedic Trauma

Kantosspital Graubünden

Chur, Switzerland

2008 – 2014 Orthopaedic Surgery Residency

6-year Research Program

University of California, Davis

Sacramento, CA

2003 – 2008 Medical Degree

Distinction in Research

Mount Sinai School of Medicine

New York, NY

2001 – 2003 Bachelor of Science

Majors: Anthropology and Health Studies

Michigan State University Honors College

East Lansing, MI

1999 – 2001 University of Michigan

Ann Arbor, MI

**HONORS & AWARDS**

2018 Howard Rosen Table Instructor Award – AO Trauma North America Basic Principles of Fracture Management Course.

2014 Best Resident Research Presentation – UC Davis Orthopaedic Surgery Resident Graduation

2014 Emerging Leaders Program – American Orthopaedic Association

2013 Resident Leadership Forum – American Orthopaedic Association

Denver, CO

2012 Sanford and Darlene Anzel Award – Western Orthopaedic Association

“Calcium Phosphate Cement and Locking Plate Augmentation for Distal Femoral Defects”

2012 Lloyd W. Taylor Resident Paper Award – California Orthopaedic Association

“Properties of Distal Femoral Defects with a Cortical Breach”

2011 1st place Basic Science – ORS/OREF Southwest Regional Resident Research Symposium

“Induction of Bone Regeneration by BMP-7 in Critical Sized Defects Using a Novel Internal Fixator”

2010 Dr. Denny and Jeanene Dickenson Orthopaedic Research Fellowship

2008 Distinction in Research Award

2006 Doris Duke Clinical Research Fellowship

2003 Honors College Graduate

2001 – 2003 Dean’s List, Honors College

2002 Undergraduate Clinical Research Fellowship

1999 University of Michigan Alumni Scholarship

1999 National Honors Society

**GRANTS**

2011 Orthopaedic Trauma Association Resident Research Grant

“The Role of Mechanical Environment in a Rodent Critical-Sized Defect Using a Novel Fixator”

2009 Orthopaedic Research and Education Foundation

Resident Journal Club Grant

**BOARD CERTIFICATION**

2018 ABOS Certified

**LICENSURE**

2016 – present State of Illinois, Physician and Surgeon

2015 – present State of Washington, Physician and Surgeon

2009 – present State of California, Physician and Surgeon

**PROFESSIONAL ORGANIZATIONS**

2013 – present American Orthopaedic Association, Emerging Leaders Program

2012 – present AO Trauma Foundation

2012 – present Orthopaedic Trauma Association

2010 – present California Orthopaedic Association

2008 – present American Academy of Orthopaedic Surgeons

**INVITED FACUTLY AT EDUCATIONAL COURSES**

2018 AONA Basic Principles of Fracture Management

Baltimore, MD

2018 AONA Basic Principles of Fracture Management

Chicago, IL

2018 AONA Think Tank

Park City, UT

2018 AONA Pelvis and Acetabulum Fracture Management

Tampa, FL

2018 AONA Basic Principles of Fracture Management

Kansas City, MO

2018 OTA Comprehensive Fracture Course for Residents

Chicago, IL

2017 AONA Basic Principles of Fracture Management

Atlanta, GA

2017 OTA Comprehensive Fracture Course for Residents

Chicago, IL

**INVITED SPEAKER**

2018 Chicago Sports Medicine Symposium

2018 Midwest Orthopaedics at Rush Hip Symposium

2017 University of Chicago

Department of Orthopaedic Surgery Grand Rounds

Chicago, IL

2017 Athletico University: Hip Dysplasia and Periacetabular Osteotomy

**BOOK CHAPTERS**

Principles of Internal Fixation in Chapman’s Operative Orthopaedics, Third Edition. Joel Williams, MD and Michael Chapman, MD. J.B. Lipincott Company. *In press.*

**PUBLICATIONS**

Williams, J; Anderson, M; Christiansen, B; Reddi, H; Lee, M. The Influence of Fixation Stiffness on Bone Regeneration in a Rodent Bone Defect Model. *Submitted for publication.*

Williams, J; Maitra, S; Anderson, M; Christiansen, B; Reddi, H; Lee, M. BMP-7 and Bone Regeneration: Evaluation of Dose Response in a Novel Rodent Segmental Defect Model. *The Journal of Orthopaedic Trauma.* 2015 Sep;29(9):e336-41.

Amanatullah, D; Williams, J; Tamurian, R. Properties of Distal Femoral Defects with a Cortical Breach. Clinical Orthopaedics and Related Research. *Orthopedics. 2014* March; 37(3): 158-162.

Christiansen, B; Anderson, M; Lee, C; Williams, J; Yik, J; Haudenschild, D. Musculoskeletal Changes Following Non-invasive Knee Injury Using a Novel Mouse Model of Post-traumatic Osteoarthritis. *Osteoarthritis and Cartilage.* 2012; doi:10.1016/j.oca.2012.04.014.

Giza, E; Frizzell, L; Farac, R; Williams, J; Kim, S. Augmented Tendon Achilles Repair Using a Tissue Reinforced Scaffold: A Biomechanical Study*. Foot Ankle Int.* 2011 May; 32(5): S545-9.

Williams, J; Roberts, J; Yoo, B. Case Report: Dorsalis Pedis pseudoaneurysm after Lisfranc surgery. *J Ortho Trauma* 24(11):98-101; 2010.

Vigler, M; Lee, S; Palti, R; Williams, J; Kaminsky; Posner, M; Hausman, M. Biomechanical comparison of techniques to reduce the bulk of lacerated flexor tendon ends within digital sheaths of the porcine forlimb. *J Hand Surg* 34(9):1653-8; 2009.

Khurana, S; Hornyak, J; Williams, J; Hurvitz, E. The Prevalence of Overweight Children With Cerebal Palsy. *Medicine & Science in Sports & Exercise* May 2005

**ABSTRACTS**

March 2015. Possible inhibitory effect of bone marrow derived mesenchymal stem cell application on BMP-2 mediated bone healing in a critical size defect model. Refaat, M; Williams, J; Lee, M. AAOS Annual Meeting. Las Vegas, NV.

October 2014. Possible inhibitory effect of bone marrow derived mesenchymal stem cell application on BMP-2 mediated bone healing in a critical size defect model. Refaat, M; Williams, J; Lee, M. Orthopaedic Trauma Association. Tampa, FL.

January 2014. The Influence of Construct Stiffness on Bone Regeneration in a Rodent Defect Model. Williams, J; Maitra, S; Anderson, M; Christiansen, B; Reddi, H; Lee, M. International Society for Fracture Repair Biennial Conference. New York, NY.

January 2014. A Novel Rodent Critical Sized Defect Model and BMP-7 Dose Response Study. Williams, J; Maitra, S; Anderson, M; Christiansen, B; Reddi, H; Lee, M. International Society for Fracture Repair Biennial Conference. New York, NY.

October 2013. The Influence of Construct Stiffness on Bone Regeneration in a Rodent Defect Model. Williams, J; Anderson, M; Christiansen, B; Reddi, H; Lee, M. Orthopaedic Trauma Association. Phoenix, AZ.

October 2013. A Novel Rodent Critical Sized Defect Model and BMP-7 Dose Response Study. Williams, J; Maitra, S; Anderson, M; Christiansen, B; Reddi, H; Lee, M. Orthopaedic Trauma Association. Phoenix, AZ.

June 2013. Taylor, J; Williams, J; Pereira, G. Percutaneous Femoral Derotation Osteotomy Using Computer Navigation, Intramedullary Saw and a Cephalomedullary Nail – A Description of Technique. International Society for Computer Assisted Orthopaedic Surgery. Orlando, Florida.

June 2012. Williams, J; Anderson, M; Christiansen, B; Reddi, H; Lee, M. Induction of Bone Regeneration by BMP-7 in Critical Sized Defects Using a Novel Internal Fixator. Western Orthopaedic Association 76th Annual Meeting. Portland, OR.

June 2012. Williams, J; Amanatullah, D; Shellito, A; Tamurian, R. Calcium Phosphate Cement and Locking Plate Augmentation for Distal Femoral Defects. Western Orthopaedic Association 76th Annual Meeting. Portland, OR.

June 2012. Amanatullah, D; Williams, J; Tamurian, R. Properties of Distal Femoral Defects with a Cortical Breach. Western Orthopaedic Association 76th Annual Meeting. Portland, OR.

April 2012. Williams, J; Anderson, M; Christiansen, B; Reddi, H; Lee, M. Induction of Bone Regeneration by BMP-7 in Critical Sized Defects Using a Novel Internal Fixator. California Orthopaedic Association Annual Meeting. Carlsbad, CA.

April 2012. Amanatullah, D; Williams, J; Tamurian, R. Properties of Distal Femoral Defects with a Cortical Breach. California Orthopaedic Association Annual Meeting. Carlsbad, CA.

February 2012. Williams, J; Amanatullah, D; Shellito, A; Tamurian, R. Calcium Phosphate Cement and Locking Plate Augmentation for Distal Femoral Defects. Challenges in Fracture Care Across Disciplines, AO North America. Orlando, FL.

February 2012. Williams, J; Anderson, M; Christiansen, B; Reddi, H; Lee, M. Induction of Bone Regeneration by BMP-7 in Critical Sized Defects Using a Novel Internal Fixator. Challenges in Fracture Care Across Disciplines, AO North America. Orlando, FL.

February 2012. Williams, J; Anderson, M; Christiansen, B; Reddi, H; Lee, M. Induction of Bone Regeneration by BMP-7 in Critical Sized Defects Using a Novel Internal Fixator. 58th Annual Meeting of Orthopaedic Research Society (ORS).

October 2011. Williams, J; Amanatullah, D; Shellito, A; Tamurian, R. Calcium Phosphate Cement and Locking Plate Augmentation for Distal Femoral Defects. Connective Tissue Oncology Society – Musculoskeletal Tumor Society Meeting. Chicago, IL.

October 2011. Amanatullah, D; Williams, J; Tamurian, R. Properties of Distal Femoral Defects with a Cortical Breach. Connective Tissue Oncology Society – Musculoskeletal Tumor Society Meeting. Chicago, IL.

September 2011. Christiansen, B; Lee, C; Anderson, M; Williams, J; Haudenschild, D. Short-Term Bone Changes After Non-Invasive Knee Injury Using a Novel Mouse Model of Post-Traumatic Osteoarthritis. 2011 Annual Meeting of the American Society for Bone and Mineral Research. San Diego, CA.

September 2011. Christiansen, B; Lee, C; Anderson, M; Williams, J; Haudenschild, D. Early Changes Following Knee Injury in Non-Invasive Mouse PTOA Model. Osteoarthritis Research Society International. San Diego, CA.

August 2011. Christiansen, B; Lee, C; Anderson, M; Williams, J; Haudenschild, D. Rapid Subchondral Bone Changes After Non-Invasive ACL Injury in Mice. IBMS Sun Valley Workshop. Sun Valley, ID.

July 2011. Williams, J; Anderson, M; Christiansen, B; Reddi, H; Lee, M. Induction of Bone Regeneration by BMP-7 in Critical Sized Defects Using a Novel Internal Fixator. Western Orthopaedic Association Annual Meeting. Honolulu, HI.

May 2011. Williams, J; Anderson, M; Christiansen, B; Reddi, H; Lee, M. Induction of Bone Regeneration by BMP-7 in Critical Sized Defects Using a Novel Internal Fixator. ORS/OREF Southwest Regional Resident Research Symposium. San Diego, CA.

September 2007. Vigler, M; Lee, S; Posner, M; Cordova, M; Williams, J; Hausman, M. A Biomechanical comparison of Antibulking techniques for Flexor tendon repairs. American Society for Surgery of the Hand (ASSH). Seattle, WA.

September 2007. Edelstein, D; Landa, J; Lee, S; Williams, J; Cordova, M; Kim, B. Biomechanical Characteristics of Suture Repair Methods of the Flexor Digitorum Superficialis Tendon in Zone II. American Society for Surgery of the Hand (ASSH). Seattle, WA.

May 2007. Vigler, M; Lee, S; Posner, M; Cordova, M; Williams, J; Hausman, M. A Biomechanical comparison of Antibulking techniques for Flexor tendon repairs. New York Society for Surgery of the Hand (NYSSH) Residents and Fellows Meeting. New York, NY.

May 2007. Edelstein, D; Landa, J; Lee, S; Williams, J; Cordova, M; Kim, B. Biomechanical Characteristics of Suture Repair Methods of the Flexor Digitorum Superficialis Tendon in Zone II. New York Society for Surgery of the Hand (NYSSH) Residents and Fellows Meeting. New York, NY.

March 2006. Casagrande, DC; Williams, JC; Bird, JE; Cordova, MA; Ghillani, R; Laudier DM; Terranova, CJ; Levy, R; Jepsen, KJ. Patterns of Intracortical Bone Reveal Changes in Bone Quality. 52nd Annual Meeting of Orthopaedic Research Society (ORS). Chicago, IL.

May 2005. Casagrande, DC; Williams, JC; Bird, JE; Cordova, MA; Ghillani, R; Laudier DM; Terranova, CJ; Levy, R; Jepsen, KJ. Patterns of Intracortical Bone Reveal Changes in Bone Quality. American Society for Bone and Mineral Research (ASBMR). Bethesda, MD.

March 2005. Williams, JC; Cordova, MA; Casagrande, DC; Bird, JE; Laudier, DM; Terranova, CJ; Levy, R; Jepsen, KJ. Comparative Analysis of Bone Resorption in the Proximal Femur and Distal Radius. 51st Annual Meeting of Orthopaedic Research Society (ORS). Washington, D.C.