

Jonathan Scott Duncan, MD

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EDUCATION

FELLOWSHIP

2014-2015 Mayo Clinic, Mayo School of Graduate Medical Education Rochester, Minnesota
Orthopaedic Spine Fellowship: 8/2014-7/2015.

RESIDENCY

2010-2014 Henry Ford Hospital System Detroit, Michigan
Orthopaedic Surgery Residency

2009-2010 Henry Ford Hospital System Detroit, Michigan
Orthopaedic Surgery Internship

MEDICAL SCHOOL & UNDERGRADUATE

2009 University of Texas Southwestern Medical School at Dallas Dallas, Texas
MD, Medical Doctorate

2005 University of Texas at Austin Austin, Texas
BA, Bachelor of Arts, Double Major:
Latin American Studies with Special Honors and Biology

2003 Universidad de Guadalajara Guadalajara, Mexico
Study Abroad - Undergraduate Foreign Exchange Student
Clinical Internship : Health Care in Mexico Program
Centro Universitario de Ciencias de la Salud (CUCS) & Hospital Civil

LICENSURES & CERTIFICATIONS

Texas Medical License	Temporary issued, Permanent Pending 8-28-15
Minnesota Medical License, Full unrestricted	2014-Current
DEA Controlled Substance License	2014-Current
Michigan Educational Limited Medical License	2009-2014
Michigan Board of Pharmacy Controlled Substance License	2009-2014
Basic Life Support (BLS) Certification	2013-Current
Advanced Cardiac Life Support (ACLS) Certification	2013-Current
Fundamentals of Critical Care Support Provider	2009-2010

BOARD CERTIFICATION: Board Eligible

American Board of Orthopaedic Surgery (ABOS) – Part 1 Written Exam: Passed 07/2014.

American Board of Orthopaedic Surgery (ABOS) – Part 2 Oral Exam: Pending 2016

EXAMINATIONS:

United States Medical Licensing Examination (USMLE): Steps 1, 2 CS, 2 CK, 3 Passed & Complete

PROFESSIONAL MEMBERSHIPS & SOCIETIES

Regional	2015-Present	Texas Medical Association-Pending
	2015-Present	Texas Orthopaedic Association-Associate Pending
	2015-Present	Bexar County Medical Society-Pending
	2014-Present	Mayo Fellows Association
	2009 - 2014	Detroit Academy of Orthopaedic Surgeons
	2009 - 2015	Michigan Orthopaedic Society
National	2009 - Present	American Academy of Orthopaedic Surgeons (AAOS), Associate member
	2005 - Present	American Medical Association (AMA)
	2014 – Present	Cervical Spine Research Society (CSRS), Associate Fellowship member
	2012 – Present	North American Spine Society (NASS), Member
International	2014 – Present	AO Spine, Fellow

PROFESSIONAL AND TEACHING EXPERIENCE

Lectures & Presentations: National

1. **Course Faculty** Cervical Radiculopathy: ACDF versus Laminoforaminotomy. 9th Annual Mayo Clinic Spine Center: Medical and Surgical Spine Course. Phoenix, AZ. January 16-17, 2015.
2. **Session Moderator** Cervical & Lumbar Case Presentations Session. 9th Annual Mayo Clinic Spine Center: Medical and Surgical Spine Course. Phoenix, AZ. January 17, 2015.

Lectures & Presentations: Local/Regional

1. Dural Injuries: Challenges and Treatment Strategies. Mayo Clinic Joint Neurosurgery & Orthopaedic Spine Conference. January 21, 2015.
2. Sub-axial cervical trauma: Controversies in Management. Mayo Clinic Joint Neurosurgery & Orthopaedic Spine Conference. November 19, 2015.
3. Annual Spine Review. Henry Ford Hospital Orthopaedic Surgery Conference: OITE Review Series. September 2013.
4. Neurovascular disorders of the Shoulder. Henry Ford Hospital Orthopaedic Surgery Conference. April 4, 2014.
5. Emergency Spine Consultations. Henry Ford Hospital Orthopaedic Surgery Conference: Summer Trauma Series. July 7, 2013.
6. Applied Surgical Anatomy of the Elbow. Henry Ford Hospital Orthopaedic Surgery Conference: Anatomy Series. September 9, 2012.
7. Surgical Approaches to the Lower Leg and Ankle. Henry Ford Hospital Orthopaedic Surgery Conference: Anatomy Series. March 3, 2013.

8. Complications of Transforaminal Lumbar Interbody Fusions. Henry Ford Hospital Orthopaedic Surgery Conference. May 29, 2012.
9. Perioperative Venous Thromboembolic Disease in Spine Surgery. Henry Ford Hospital Orthopaedic Surgery Conference. September 9, 2011.
10. Complications of Surgical Treatment of Diabetic Ankle Fractures. Henry Ford Hospital Orthopaedic Surgery Conference. July 7, 2010.
11. Vascular Complications after Total Hip Arthroplasty. Henry Ford Hospital Orthopaedic Surgery Conference. April 28, 2010.
12. Evidence Based Medicine Approach to Low Back Pain. Family Medicine Case Presentations. UT Southwestern Family Medicine, Dallas, TX. May 22, 2008.

Academic Responsibilities

2014-2015 **Administrative Chief Fellow** Orthopaedic Spine Fellowship, Mayo Clinic, Rochester, MN.
Journal Club, Trauma Case Series, Didactic Lectures, Call Schedule, Fellowship Handbook

Quality Improvement Projects

Mayo Clinic Spine Fellowship, Rochester, MN

2015 EMR Convergence of Neurosurgery & Orthopaedic Spine Order Sets, Orthopaedic Representative
2015 Updated Vitamin D Deficiency Protocol & Spine Fellowship Handbook

Henry Ford Hospital Orthopaedic Surgery Residency, Detroit, MI

2014 Video Camera & Electronic Remote Observation upgrade of Gross Anatomy Lab.
2013 Updated and modernized residency website: Curriculum, Rotations, Online content.
2013 Spine Level Localization Video: Avoiding Wrong Level Spine Surgery.
2012 EMR Orthopaedic templates for H&P and Consultations.

Medical Staff Appointments

Clinical Fellow – Orthopaedic Spine Surgery

08/2014-07/2015 St. Mary's Hospital & Methodist Hospital Rochester, MN

Credentialed Supplemental Medical Staff – Orthopaedic Surgery

01/2015-Current	Mayo Clinic Health System in Austin	Austin, MN
01/2015-Current	Mayo Clinic Health System in Albert Lea	Albert Lea, MN
01/2015-Current	Allina Health System Owatonna Hospital	Owatonna, MN

HONORS & AWARDS

2015 Top 10 Selected Posters, Invited Podium, AO Spine North America Fellows Forum, Banff, Alberta, Canada

2015 Honorable Mention, Good Author Project, Quality Dictation Recognition, Mayo Clinic, Rochester, MN
 2014 Mayo Quality Fellows Program, Bronze Certification, Mayo Clinic, Rochester, MN
 2012 Nominee, Consultant of the Year Award, Dept. of Emergency Medicine, Henry Ford Hospital, MI
 2006 Dr. David Hemsell Medical Student Scholarship, U. Texas Southwestern Medical Center
 2006 Women's Club Scholarship, U. Texas Southwestern Medical Center
 2005 Dr. Bryan Williams Scholars, U. Texas Southwestern Medical Center
 2005 College Scholar, Honors Day, U. Texas Austin
 2005 U.S. & Mexico Borderlands Academic Research Scholarship, U. Texas Austin
 2005 Special Honors in Latin American Studies, U. Texas Austin
 2004 Teresa Lozano Long Academic Scholarship, U. Texas Austin
 2003 Benjamin A. Gilman International Scholar, U.S. Department of State
 2003 Kaplan Scholarship, Alpha Phi Sigma Honor Society, U. Texas Austin
 2003 Certificate of Advanced Achievement, Austin Institute of Religion
 2002 University Honors, U. Texas Austin

PROFESSIONAL DEVELOPMENT

Course Attendance

2015

AO Spine North America Fellows Forum	Banff, Alberta, Canada
AO Spine Complex Cervical Spine Surgery and Complication Management Bioskills	Phoenix, AZ
Mayo Clinic Spine Center: Medical and Surgical Spine Course	Phoenix, AZ
Mayo Clinic Spine Center: Live Animal Dural Repair Lab	Phoenix, AZ

2014

Cervical Spine Research Society Annual Meeting	Orlando, FL
Cervical Spine Research Society Instructional Course	Orlando, FL
AO Spine Controversies in Complex Spine Surgery Comprehensive Bioskills Course	Long Beach, CA
Miller Review Course: Orthopaedic Surgery Board Review	Denver, CO
Michigan Orthopaedic Society, Orthopaedic Trauma Annual Educational Program	Plymouth, MI
Federation of Spine Associations, Specialty Day	New Orleans, LA
American Academy Orthopaedic Surgery Annual Meeting and Instructional Courses	New Orleans, LA

2013

Future Leaders: Surgical Management of Adult Spinal Deformity Course	Indianapolis, IN
Michigan Orthopaedic Society, Orthopaedic Trauma Annual Educational Program	Plymouth, MI

2012

North American Spine Society (NASS), 27 th Annual Meeting	Dallas, TX
NASS Instructional Course: Fundamentals of Image Guided Spine Surgery	Dallas, TX
Henry Ford Comprehensive Spine Symposium	Detroit, MI
Arthroscopy Association North America Fundamentals of Arthroscopic Surgery	Rosemont, IL

2011

Michigan Orthopaedic Society, Annual Meeting	Mackinac Island, MI
Texas Scottish Rite Orthotics and Prosthetics Course	Dallas, TX
Michigan Foot and Ankle Society Annual Review	Ann Arbor, MI
AO Trauma Resident Basic Fracture Course	Sun Valley, ID

2010 & Previous

AO Trauma Technique Conference and Bioskills Lab, 2010
Fundamentals of Critical Care Support Provider Course, 2009

Kalamazoo, MI
Detroit, MI

RESEARCH and PUBLICATIONS

RESEARCH EXPERIENCE

1. **Public Health Research Internship.** *Staphylococcus aureus* and Methicillin-Resistant *Staphylococcus aureus* on surfaces in a University Setting. Mentors: Leanne Field, PhD; Marilyn Felkner, PhD. Texas Department of State Health Services, Austin, Texas, 2005
2. **Honors Thesis.** U.S.-Mexico border health policy and bi-national initiatives towards treatment of Multi-Drug Resistant Tuberculosis. Faculty Supervisor: David C. Warner PhD, Professor, University of Texas LBJ School of Public Affairs, Austin, Texas. 2005
3. **Research Assistant.** Impedance threshold breathing device to improve blood pressure in patients in shock. Mentor: Ahmad Idris, MD. Univ. of Texas Southwestern Medical Center, Division of Emergency Medicine, Dallas, Texas. 2006
4. **Research Assistant.** Variable CPR breathing ratios in a porcine model of cardiac arrest and hemorrhagic shock and subsequent brain perfusion. Mentors: Ahamed Idris, MD; Kathy Rinnert MD,MPH. Univ. of Texas Southwestern Medical Center, Division of Emergency Medicine, Dallas, Texas. 2006

PODIUM & POSTER PRESENTATIONS

1. **Duncan J.** Honors thesis Presentation: U.S.-Mexico border health policy and bi-national initiatives towards treatment of Multi-Drug Resistant Tuberculosis. University of Texas LBJ School of Public Affairs, Advanced Topics in Public Policy Graduate Seminar: "U.S. – Mexico Border Health". Austin, Texas. 2005.
2. **Duncan J.** *Staphylococcus aureus* and Methicillin-Resistant *Staphylococcus aureus* on surfaces in a University Setting. Podium Presentation. Texas Department of State Health Services, Public Health Internship Research Forum. Austin, Texas, 2005
3. Felkner M, Bartlett K, Andrews K, Field L, Taylor J, Baldwin T, Presley J, **Duncan J**, Newsome S. *Staphylococcus aureus* and Methicillin-Resistant *Staphylococcus aureus* on surfaces in a University and a Jail Setting. International Conference on Emerging Infectious Diseases 2008: Slide sessions and Poster abstracts. 2008
4. Banka T, **Duncan J**, Khalil J, Hoegler J, Morandi M. The Lateral Percutaneous Suprapatellar Approach to Tibial Intramedullary Nailing: A Cadaver Study. Podium Presentation, Michigan Orthopaedic Society Annual Meeting. Mackinac Island, Michigan. June 2011.
5. **Duncan J**, Moutzouros V, Craig J, Van Holsbeeck M. Evaluation of Prognostic Factors in Surgical Rotator Cuff Tears: Comparison of Ultrasonography to MRI. Podium Presentation. Dr. Harold M Frost Annual Research Presentations. Henry Ford Hospital. Detroit, MI. June 2013.

6. **Duncan J**, Moutzouros V, Craig J, Van Holsbeeck M. Evaluation of Prognostic Factors in Surgical Rotator Cuff Tears: Comparison of Ultrasonography to MRI. Podium and E-Poster Presentation. Henry Ford Graduate Medical Education Annual Research Symposium. Henry Ford Hospital. Detroit, MI. February 2014.
7. Mehran, N, **Duncan J**, Moutzouros V, Craig J, Van Holsbeeck M. Evaluation of Full-Thickness Rotator Cuff Tears in a Surgical Population: Ultrasound versus Magnetic Resonance Imaging. Podium Presentation. Mid-America Orthopaedic Association Annual Meeting. Paper #152, 3rd Plenary Session. April 25, 2015.
8. **Duncan J**, Mohamed Ahmed A, Zarrabian M, Eck J, Rhee J, Currier B, Nassr A. Do Lumbar Decompression & Fusion patients remember their pre-operative status? Recall bias in Patient-reported Outcomes. Poster Presentation. 13th Annual AOSNA Fellows Forum, Banff Springs, Alberta, Canada. April 24, 2015.
9. **Duncan J**, Mohamed Ahmed A, Zarrabian M, Eck J, Rhee J, Currier B, Nassr A. Do Lumbar Decompression & Fusion patients remember their pre-operative status? Recall bias in Patient-reported Outcomes. AO Spine Selected Podium Presentations. 13th Annual AOSNA Fellows Forum, Banff Springs, Alberta, Canada. April 25, 2015.

BOOK CHAPTERS

Duncan J, Nassr A, Radcliff K. Complications of Posterior and Transforaminal Lumbar Interbody Fusions. *Complications of Spinal Instrumentation*. Vaccaro A, Kim D. eds. Thieme, New York, NY. Publication Pending 2015.

PEER-REVIEWED ABSTRACTS and MANUSCRIPTS

1. Felkner M, Bartlett K, Andrews K, Field L, Taylor J, Baldwin T, Presley J, **Duncan J**, Newsome S. *Staphylococcus aureus* and Methicillin-Resistant *Staphylococcus aureus* on surfaces in a University and a Jail Setting. International Conference on Emerging Infectious Diseases 2008: Abstract. Emerging Infectious Diseases. <http://wwwnc.cdc.gov/eid/pdfs/ICEID2008.pdf>. 2008.
2. Mehran, N, **Duncan J**, Moutzouros V, Craig J, Van Holsbeeck M. Evaluation of Full-Thickness Rotator Cuff Tears in a Surgical Population: Ultrasound versus Magnetic Resonance Imaging. Mid-America Orthopaedic Association. Abstract #152, 3rd Plenary Session. April 25, 2015.
3. **Duncan J**, Mohamed Ahmed A, Zarrabian M, Eck J, Rhee J, Currier B, Nassr A. Do Lumbar Decompression & Fusion patients remember their pre-operative status? Recall bias in Patient-reported Outcomes. Manuscript submission pending.

PROFESSIONAL INTERESTS

Spinal Infection and Treatment, Spinal Tumors, Spinal Metastasis, Spinal Deformity, Cervical Spine

EXPERIENCE & ACTIVITIES

2014-2015	Sunday School Instructor	The Church of Jesus Christ of Latter-Day Saints, Rochester, MN
2010-2013	Assistant Coach	Troy Youth Soccer, Troy, MI
2009-2014	Assistant Coach	Little League Troy Baseball, Troy MI

2006-2007	President	Emergency Medicine Student Association (EMSA), UTSW Dallas, TX
2005-2006	Mentor	Health Professions Enrichment Program (HPREP), UTSW, Dallas, TX
2005-2006	Admissions Committee	Class Representative, UTSW, Dallas, TX
2005	Public Health Research Intern	Texas Dept. State Health Services (DSHS), Austin, TX
2003	Clinical Observational Intern	Health Care in Mexico, Guadalajara, Mexico
2001-2005	Pharmacy Technician	North Austin Medical Center, Austin, TX
2001-2004	Wing/Fullback/ Scrum Half	University of Texas Rugby Football Club, Austin, TX
2002-2003	Spanish Translator/ Volunteer	Austin Volunteer Clinic, Brackenridge Hospital, Austin, TX
2002-2004	Volunteer	Alpha Phi Sigma Honor Society, Austin, TX
2000-2001	Zone Leader, District Leader	The Church of Jesus Christ of Latter-Day Saints, Oakland, CA
1999-2001	Volunteer Church Missionary	The Church of Jesus Christ of Latter-Day Saints, Oakland, CA
1998-1999	Chairperson	Activities Committee, Austin LDS Institute of Religion, Austin, TX

LANGUAGE

Spanish: Fluent

PERSONAL INTERESTS

Snowboarding, UT College football, Coaching kids sports teams, Outdoors, Backpacking and Camping.