

Erik Hall McDonald, MD, MAS.

Curriculum Vitae

Offices:

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Citizenship: USA

Marital Status: Married

Education:

2009 B.S. Mechanical Engineering, University of California, Berkeley, California
2015 Masters in Clinical Research – University of California, San Francisco, California
2016 M.D., University of California, San Francisco, School of Medicine

Postdoctoral Training: *Residency and Fellowship*

2016 – 2021 Residency in Orthopaedic Surgery – University of California, San Francisco
2021 – 2022 Adult Reconstruction Fellowship – Yale University, New Haven, CT

Licensure and Certification:

2017 California Medical License A152771
2024 Licensed and Certified American Board of Orthopaedic Surgery
California Fluoroscopy Xray Supervisor and Operator

EMPLOYMENT

- November 2024 – Present **Adult Reconstruction Surgeon**
Dearborn and Associates Institute for Joint Restoration *Menlo Park and Fremont, CA*
 Performs primary and revision total hip and knee arthroplasty
- September 2022 – November 2024 **Adult Reconstruction Surgeon**
Kaiser Santa Clara *Santa Clara, CA*
- Performed primary and revision total hip and knee arthroplasty
 - Participated in weekly education sessions for radiology rounds teaching Podiatry Residents
 - Invited to be a board member of the Senior Surgical Care Program focusing on excellence in care of geriatric Orthopaedic patients
- August 2021 – July 2022 **Adult Reconstruction Fellow**
Yale University *New Haven, CT*
- Completed a yearlong Adult Reconstruction fellowship focusing in complex total hip and knee replacement including revision surgery, navigation, and robotic surgery with a special interest in direct anterior total hip arthroplasty for complex and revision cases.
- June 2016 – June 2021 **Orthopaedic Surgery Resident**
University of California, San Francisco *San Francisco, CA*
- Completed Orthopedic Surgery residency in good standing.
- January 2008 – 2011 **Project Manager / Mechanical Engineer**
Biomechanical Testing Facility, UCSF *San Francisco, CA*
- Managed all aspects of in vitro and ex vitro biomechanical experiments of medical devices for academic and industry sponsored research projects.
 - Managed daily operations of the laboratory including holding lab meetings, maintaining machinery, scheduling projects, communicating with industry and academic collaborators
 - Principle engineer for entire laboratory designing and fabricating test fixtures for trauma, sports medicine, and spine biomechanics experiments
 - Assisted in Orthopaedic resident research projects and education
 - Managed/ mentored undergraduate engineering students
- August 2006 – August 2007 **Mechanical Engineer/Engineering Technician**
B.C. Tech Inc. *Santa Cruz, CA*
- Progressed from an intern to a mechanical engineer designing commercial medical devices including handheld devices for fluorescence PAP test, powered bone biopsies, long bone fracture fixation, blood flow rate sensing catheter, biological threat detection system, minimally invasive knee replacements, etc.

AWARDS

- 2020 - Teaching Excellence Award for Cherished Housestaff
- *Selected as a recipient from the graduating medical student class of 2020 at UCSF*
- 2015 - Orthopaedic Trauma Assoc., National Trauma Data Bank Research Grant - \$16,870
- *Does the Mortality Benefit of Trauma Centers Vary Across Levels of Socioeconomic Status – a Master’s Thesis examining how socioeconomic status modifies the association between trauma center care and mortality*
- 2015 - University of California, Regents Scholar - \$5,500
- 2014 - University of California, Regents Scholar - \$5,500
- 2013 - UCSF Research Allocation Training Program Research Grant - \$20,000
- 2013 - University of California, Regents Scholar - Deferred award while in Master’s Program
- 2012 - University of California, Regents Scholar - \$5,500
- 2012 - UCSF Dean’s Summer Research Award - \$2,600
- *Project Title: The UCSF Experience with Liver Donation Following Cardiac Death*
- 2011 - University of California, Regents Scholar - \$5,500

COMMUNITY/ SCHOOL INVOLVEMENT/ TEACHING

- 2023 – Invited didactic session on anterior total hip arthroplasty provided to the Physician Assistant, Physical Therapy, and Occupational Therapy groups at Kaiser Santa Clara
- 2021-2022 – Lead weekly didactic sessions for residents and medical students at Yale University
- 2020-2021 – Resident instructor in resident and medical student surgical anatomy course
- 2019 – Resident instructor in resident and medical student pelvis and acetabular anatomy
- 2017 – Participated in the PlaySafe program within the UCSF Department of Orthopedics providing sports medicine care to high school athletes.
- 2015 – Gave lectures to three high school classes at Jesse Bethel High School in Vallejo, CA on how to reach out to mentors and how to get involved in research.
- 2014 – Acted as the teaching assistant for a Clinical Epidemiology class that instructed medical students, residents, fellows, and attendings and lead weekly small group discussions.
- 2012 – Member of UCSF USMLE Step 1 Working Group
- 2012 – Member of the Essential Core Teaching Awards Selection Committee
- 2011 – Present – Member of Integrated Curriculum Steering Committee
- 2011, 2012 - Course leader for surgical skills elective for 1st year medical students
- 2011, 2012 - Course leader for elective pairing students with the Organ Procurement Team at UCSF for students to participate in organ transplants.
- 10/2012, 2/2010 – Gave lecture on materials in medicine to undergraduate engineering class at Cabrillo College.
- May 2009 - Awarded top prize of \$13,000 in Berkeley Big Ideas Contest to establish the first ever computer center in San Quentin State Prison
- February 2009 – May 2009 - Taught Computer Aided Design to inmates in San Quentin State Prison’s Vocational Program
- May 2009 – Profiled in a promotional video for Cabrillo College Engineering Program
- May 2008 – Panel discussion for students interested in Engineering at Cabrillo College

PATENTS

1. Fracture Fixation Device with Support Rods and Sheath: US 2010/0087821 – 4/8/2010

RESEARCH

Ongoing Projects

1. Evaluating the Efficacy of Bactisure on Treatment of Infection in Debridement, Antibiotics and Implant Retention in Total Joint Arthroplasty – In Preparation
2. Does Metabolic Syndrome Affect Readmission Rates in Total Joint Arthroplasty? – In Review
3. The Perceived Working Relationship Between Surgeons and Anesthesiologists Varies Based on Who You Ask: A Survey of Faculty and Trainees at a University Hospital – *In Review with J GME*
4. Injury Recovery and Prevention of Chronic Disability in Current and Former Professional Skateboarders – This project will utilize a survey of current and former professional skateboarders to determine risk factors poor recovery after acute injuries and development of chronic disability – *Manuscript in Preparation*

Peer Reviewed Journal Articles

1. Pathak N, **McDonald E**, Radford Z, Gibson D., External Rotation Deformity after Primary S-ROM THA: Dissociation and Subsequent Malrotation of the Femoral Stem within the Proximal Metaphyseal Sleeve. JBJS Case Connector – In Press
2. **McDonald E.**, Kwait D., and Kandemir U., Geometry of Proximal Humerus Locking Plates. Journal of Orthopaedic Trauma, 2015. 29(11): e425-30
3. **McDonald E.**, Theologis A., Horst P., Kandemir U., and Pekmezci M., When do anterior external or internal fixators provide additional stability in an unstable (Tile C) pelvic fracture? A biomechanical study. European Journal of Trauma and Emergency Surgery, 2015. 41(6): p.665-71
4. Pekmezci M., **McDonald E.**, Buckley J., and Kandemir U., Retrograde intramedullary nails with distal screws locked to the nail have higher fatigue strength than locking plates in the treatment of supracondylar femoral fractures: A cadaver-based laboratory investigation. Bone Joint J, 2014. 96-B(1): p. 114-21.
5. Huang E., Chern H., O'Sullivan P., Cook B., **McDonald E.**, Palmer B., Liu T., and Kim E., A better way to teach knot tying: a randomized controlled trial comparing the kinesthetic and traditional methods. Am J Surg, 2014. 208(4): p. 690-4.
6. Aluede E., **McDonald E.**, Jergesen H., Penoyar T., and Calvert K., Mechanical behaviour of low-cost dynamic compression plates correlates with manufacturing quality standards. Int Orthop, 2014. 38(1): p. 141-7.

7. Marmor M., **McDonald E.**, Buckley J.M., and Matityahu A., Propensity for hip dislocation in normal gait loading versus sit-to-stand maneuvers in posterior wall acetabular fractures. *Am J Orthop (Belle Mead NJ)*, 2013. 42(9): p. 412-5.
8. Gordon L., Matsui J., **McDonald E.**, Gordon J.A., and Neimkin R., Analysis of a knotless flexor tendon repair using a multifilament stainless steel cable-crimp system. *J Hand Surg Am*, 2013. 38(4): p. 677-83.
9. Gordon J.A., **McDonald E.**, Buckley J.M., and Gordon L., Biomechanical evaluation of a cable-crimp system designed for repair of tendons and ligaments in the hand. *J Surg Orthop Adv*, 2013. 22(4): p. 288-94.
10. Toogood P., **McDonald E.**, and Pekmezci M., A Biomechanical Comparison of Ipsilateral and Contralateral Pedicle Screw Placement for Modified Triangular Osteosynthesis in Unstable Pelvic Fractures. *J Orthop Trauma*, 2012.
11. Pekmezci M., **McDonald E.**, Kennedy A., Dedini R., McClellan T., Ames C., and Deviren V., Can a novel rectangular footplate provide higher resistance to subsidence than circular footplates? An ex vivo biomechanical study. *Spine (Phila Pa 1976)*, 2012. 37(19): p. E1177-81.
12. Matityahu A., **McDonald E.**, Buckley J.M., and Marmor M., Propensity for hip dislocation in gait loading versus sit-to-stand maneuvers: implications for redefining the dome of the acetabulum needed for stability of the hip during activities of daily living. *J Orthop Trauma*, 2012. 26(8): p. e97-e101.
13. Firoozabadi R., **McDonald E.**, Nguyen T.Q., Buckley J.M., and Kandemir U., Does plugging unused combination screw holes improve the fatigue life of fixation with locking plates in comminuted supracondylar fractures of the femur? *J Bone Joint Surg Br*, 2012. 94(2): p. 241-8.
14. Amanatullah D.F., **McDonald E.**, Shellito A., Lafazan S., Cortes A., Curtiss S., and Wolinsky P.R., Effect of mini-fragment fixation on the stabilization of medial malleolus fractures. *J Trauma Acute Care Surg*, 2012. 72(4): p. 948-53.
15. **McDonald E.**, Gordon J., Buckley J.M., and Gordon L., Comparison of a New Multifilament Stainless Steel Suture With Frequently Used Sutures for Flexor Tendon Repair. *Journal of Hand Surgery*, 2011. 36(6): p. 6.
16. **McDonald E.**, Chu T., Tufaga M., Marmor M., Singh R., Yetkinler D., Matityahu A., Buckley J.M., and McClellan R.T., Tibial plateau fracture repairs augmented with calcium phosphate cement have higher in situ fatigue strength than those with autograft. *J Orthop Trauma*, 2011. 25(2): p. 90-5.
17. Chu T., **McDonald E.**, Tufaga M., Kandemir U., Buckley J., and Ma C.B., Comparison of completely knotless and hybrid double-row fixation systems: a biomechanical study. *Arthroscopy*, 2011. 27(4): p. 479-85.

Book Chapters

1. Femoral Revision – Invited book chapter for Operative Techniques in Orthopedics Volume 29, Issue 3, 2019 – **McDonald E, Ward D.**

Podium Presentations

1. **McDonald, E.**, Golden, M. Spichler A., Rubin, L., Does Bactisure Decrease the Rate of Infection in Debridement Antibiotics and Implant Retention. Yale Research Symposium. New Haven, CT, 2022
2. **McDonald, E.** Sports Psychology – Applications to Surgical Training. Yale Research Symposium, New Haven, CT 2022
3. **McDonald E.**, Veillette G., Parekh J., and Freise C., Clinical Course and Risk Factors for Biliary Complications in Liver Transplant Recipients of Donation After Cardiac Death Donors, in Pacific Coast Surgical Association Annual Meeting. 2015 – Podium Presentation: Monterey, CA.
4. **McDonald E.**, Gordon L., Matsui J., Gordon J.A., and Neimkin R., Analysis of a knotless flexor tendon repair using a multifilament stainless steel cable-crimp system, in 58th Annual LeRoy C Abbott Society Scientific Program and 34st Annual Verne T Inman Lectureship. 2013 - Podium Presentation: San Francisco, CA. p. 677-83.
5. **McDonald E.**, Matityahu A., Buckley J.M., and Marmor M., Propensity for Hip Dislocation is Higher During Sit-to-Stand Maneuvers Than Gait in a Cadaver Model, in American Academy of Orthopaedic Surgeons. 2011 - Podium Presentation: San Diego, CA, USA.
6. **McDonald E.**, Marmor M., Buckley J.M., and Matityahu A., Propensity for Hip Dislocation in Gait Loading Versus Sit-to-Stand Maneuvers: Implications for Surgical Management of Acetabular Fractures, in ASME Summer Bioengineering Conference. 2010 - Podium Presentation: Naples, Florida, USA.

Conference Abstracts

1. **McDonald E.**, Glymour M., Boscardin J., and Morshed S., Socioeconomic status affects mortality following trauma differently at trauma centers and non-trauma centers, in Orthopaedic Trauma Association. 2015 - San Diego, CA.
2. **McDonald E.**, Dincheva G., Hoopes C., Bush E., Al-Dossari G., Wieselthaler G., Brzezinski M., and Kukreja J., Bringing the Mobile ICU to Community Hospitals: A single institution ECMO To-Go Experience in American Thoracic Society. 2015: Denver, CO.
3. Huang E., Kim E., Chern H., O'Sullivan P., Palmer B., Cook B., and **McDonald E.**, Teaching Knot Tying Via the Kinesthetic Model, in Northern California American College of Surgeons. 2013: San Francisco, CA.

4. Pekmezci M., **McDonald E.**, and Kandemir U. A biomechanical comparison of external fixator and internal fixators (INFIX) in an unstable pelvis fracture model. in 8th Annual LeRoy C Abbott Society Scientific Program and 34st Annual Verne T Inman Lectureship. 2013 - Podium Presentation. San Francisco, CA.
5. **McDonald E.**, Gordon L., Matsui J., Gordon J.A., and Neimkin R., Analysis of a knotless flexor tendon repair using a multifilament stainless steel cable-crimp system, in 8th Annual LeRoy C Abbott Society Scientific Program and 34st Annual Verne T Inman Lectureship. 2013 - Podium Presentation: San Francisco, CA. p. 677-83.
6. Huang E., Kim E., Chern H., O'Sullivan P., Palmer B., Cook B., and **McDonald E.**, Teaching Knot Tying Via the Kinesthetic Model, in Northern California American College of Surgeons. 2013: San Francisco, CA.
7. Pekmezci M., **McDonald E.**, and Kandemir U. A biomechanical comparison of external fixator and internal fixators (INFIX) in an unstable pelvis fracture model. in American Academy of Orthopaedic Surgeons Annual Meeting. 2012.
8. **McDonald E.**, Veillette G., and Freise C., The UCSF Experience with Liver Donation Following Cardiac Death and Management of Biliary Complications, in UCSF Dean's Summer Research Symposium. 2012: San Francisco, CA.
9. Amanatullah D., **McDonald E.**, Shellito A., Cotres A., Curtiss S., and Wolinsky P. Optimal Fixation for Horizontal Medial Malleolus Fractures. in Western Orthopaedic Association. 2012. Monterey, CA.
10. Yamamoto A., Marmor M., Friedberg D., **McDonald E.**, Calvert K., and Meinberg E. Use of Acute Shortening versus Bridging Plate for Highly Comminuted OTA 21-B1.3(1) Unreconstructable Olecranon Fractures. in Orthopaedic Trauma Association Annual Meeting. 2011 - Podium Presentation. San Antonio, TX.
11. **McDonald E.**, Matityahu A., Buckley J.M., and Marmor M., Propensity for Hip Dislocation is Higher During Sit-to-Stand Maneuvers Than Gait in a Cadaver Model, in American Academy of Orthopaedic Surgeons. 2011 - Podium Presentation: San Diego, CA, USA.
12. Marmor M., **McDonald E.**, Buckley J.M., and Matityahu A., Hip stability After Posterior Wall Fractures is Dependent Fracture Size and the Direction of Loading in American Academy of Orthopaedic Surgeons. 2011 - Podium Presentation: San Diego, CA.
13. Kandemir U., **McDonald E.**, Kelly M., Liddle K., and Buckley J.M. Larger Diameter Interlocking Screws Improve the Fatigue Life of Femoral Nail Fixation. in Orthopaedic Trauma Association Annual Meeting. 2011 - Podium Presentation. San Antonio, TX.
14. Firoozabadi R., **McDonald E.**, Nguyen T.-Q., Buckley J.M., and Kandemir U. Filling Empty Holes at the Level of the Gap Does Not Increase the Fatigue Life of the Fixation Construct in Supracondylar Comminuted Femoral Fractures. in 6th Annual LeRoy C. Abbott Society Scientific

- Program and 32st Annual Verne T. Inman Lectureship. 2011 - Podium Presentation. San Francisco, CA.
15. Bromfield C., Leslie M., **McDonald E.**, Buckley J.M., Lee M., and Ferguson T. When Does Anterior External Fixation (AEF) Enhance Construct Stability in Zone II Sacral Fractures? A Biomechanical Evaluation. in Orthopaedic Trauma Association Annual Meeting. 2011 - Podium Presentation. San Antonio, TX.
 16. **McDonald E.**, Pekmezci M., Buckley J.M., and Kandemir U. Comparison of the Fatigue Strength of Fixation Techniques for Supracondylar Femur Fractures. in Orthopaedic Research Society. 2011. Long Beach, CA.
 17. **McDonald E.**, Matityahu A., Buckley J.M., and Marmor M., Hip stability After Posterior Wall Fractures is Dependent Fracture Size and the Direction of Loading in Orthopaedic Research Society Annual Meeting. 2011: Long Beach, CA, USA.
 18. **McDonald E.**, Marmor M., Buckley J.M., and Matityahu A., Propensity for hip dislocation in gait loading versus sit-to-stand maneuvers: implications for redefining the weight bearing dome of the acetabulum during activities of daily living., in Orthopaedic Research Society Annual Meeting. 2011: Long Beach, CA.
 19. **McDonald E.**, Gordon J., Buckley J.M., and Gordon L., Evaluation of Methods Used to Reduce the Force of Flexion Following Primary Flexor Tendon Repair, in Orthopaedic Research Society Annual Meeting. 2011: Long Beach, CA.
 20. **McDonald E.**, Firoozabadi R., Nguyen T.-Q., Buckley J.M., and Kandemir U. Can Fatigue Strength of Locking Plates be Improved by Plugging the Unfilled Screw Holes in Comminuted Supracondylar Femur Fractures. in Orthopaedic Research Society Annual Meeting. 2011. Long Beach, CA.
 21. Leslie M., Bromfield C., **McDonald E.**, Buckley J.M., Lee M., and Ferguson T. Biomechanical Analysis of Posterior Pelvic Ring Fixation In a Vertically Unstable Pelvic Fracture Model. in Orthopaedic Trauma Association Annual Meeting. 2011. San Antonio, TX.
 22. Amanatullah D., **McDonald E.**, Shellito A., Cotres A., Curtiss S., and Wolinsky P. Optimal Fixation for Horizontal Medial Malleolus Fractures. in Orthopaedic Trauma Association Annual Meeting. 2011. San Antonio, TX.
 23. **McDonald E.**, Marmor M., Buckley J.M., and Matityahu A., Propensity for Hip Dislocation in Gait Loading Versus Sit-to-Stand Maneuvers: Implications for Surgical Management of Acetabular Fractures, in ASME Summer Bioengineering Conference. 2010 - Podium Presentation: Naples, Florida, USA.
 24. Matityahu A., **McDonald E.**, Chu T., Marmor M., Singh R., Yetkinler D., Buckley J.M., and McClellan T., Tibial Plateau Fracture Repairs Augmented with Calcium Phosphate Cement have Higher in Situ Fatigue Strength than Those with Autograft in Societe Internationale de Chirurgie Orhopedique et de Traumatologie. 2010 - Podium Presentation: Gothenburg, Sweden.

25. Matityahu A., **McDonald E.**, Buckley J.M., and Marmor M., The effect of simulated posterior wall acetabular fractures on hip stability during single leg stance and sit-to-stand maneuvers, in Societe Internationale de Chirurgie Orthopedique et de Traumatologie. 2010 - Podium Presentation, Podium Presentation: Gothenburg, Sweden.
26. Marmor M., **McDonald E.**, Buckley J.M., and Matityahu A., Hip Instability After Posterior Wall Fractures Is Dependent On The Size Of The Fracture, The Distance From The Acetabular Dome And The Direction Of Loading In Single Leg Stance Verses Sit-To-Stand Maneuvers, in Western Orthopaedic Association. 2010 - Podium Presentation: Monterey, CA.
27. Gordon L., **McDonald E.**, Gordon J., and Buckley J.M. The Importance of the Flexor Digitorum Superficialis Tendon in Tendon Repair: An Analysis of Anatomy, Strength, and Friction – Presentation in 5th Annual LeRoy C. Abbott Society Scientific Program and 31st Annual Verne T. Inman Lectureship. 2010 - Podium Presentation. Mission Bay, San Francisco, CA.
28. **McDonald E.**, Gordon J., Fischer J., Bartlett T., Buckley J.M., and Gordon L. In Situ Comparison of a New Flexor Tendon Repair using Multifilament Stainless Steel Suture with the Savage Technique. in Orthopaedic Research Society. 2010. New Orleans, LA.
29. **McDonald E.**, Fischer J., Buckley J.M., and Gordon L., Multifilament Stainless Steel as a Core Suture Material in Flexor Tendon Repair, in ASME Summer Bioengineering Conference. 2009: Naples, Florida, USA.
30. **McDonald E.**, Fischer J., Bartlett T., Buckley J.M., Pekmezci M., and Kandemir U. Intramedullary Nails With Distal Interlocking Screws Locked To The Nail May Have Higher Fatigue Strength In Comminuted Supracondylar Femur Fractures. in Orthopaedic Research Society. 2010. New Orleans, LA.
31. **McDonald E.**, Chu T., Tufaga M., Marmor M., Singh R., Yetkinler D., Matityahu A., Buckley J.M., and McClellan R.T. Tibial Plateau Fracture Repairs Augmented with Calcium Phosphate Cement have Higher in Situ Fatigue Strength than Those with Autograft. in Orthopaedic Research Society. 2010. New Orleans, LA.
32. **McDonald E.**, Chu T., Marmor M., Singh R., Yetkinler D., Matityahu A., Buckley J.M., and McClellan T., Lateral tibial plateau repairs using CaPO₄ cement have higher fatigue strength than autograft, in American Academy of Orthopaedic Surgeons Annual Meeting. 2010: New Orleans, LA, USA
33. Matityahu A., **McDonald E.**, Buckley J.M., and Marmor M., Propensity for hip dislocation in gait loading versus sit-to-stand maneuvers: implications for redefining the weight bearing dome of the acetabulum during activities of daily living., in Orthopaedic Trauma Association Annual Meeting. 2010: Baltimore, Maryland, USA.
34. Matityahu A., **McDonald E.**, Buckley J.M., and Marmor M., Propensity for hip dislocation in gait loading versus sit-to-stand maneuvers: implications for redefining the weight bearing dome of the

- acetabulum during activities of daily living., in Societe Internationale de Chirurgie Orthopedique et de Traumatologie. 2010, Poster Presentation: Gothenburg, Sweden.
35. Kandemir U., **McDonald E.**, Fischer J., Bartlett T., Buckley J.M., and Pekmezci M. Intramedullary nails with distal interlocking screws locked to the nail may have higher fatigue strength in comminuted supracondylar femur fractures. in Societe Internationale de Chirurgie Orthopedique et de Traumatologie. 2010. Gothenburg, Sweden: Poster Presentation.
 36. Kandemir U., Chu T., **McDonald E.**, Tufaga M., Buckley J.M., and Ma C.B. Biomechanical Evaluation of Knotless Fixation Systems for Rotator Cuff Repairs. in Societe Internationale de Chirurgie Orthopedique et de Traumatologie. 2010. Gothenburg, Sweden: Poster Presentation.
 37. Chu T., **McDonald E.**, Tufaga M., Kandemir U., Buckley J.M., and Ma C.B. Biomechanical Evaluation of Knotless Fixation Systems for Rotator Cuff Repairs. in Orthopaedic Research Society. 2010. New Orleans, LA.
 38. **McDonald E.**, Chu T., Buckley J.M., Kandemir U., and Ma C.B., A Biomechanical Comparison Of Knot-Minimizing Rotator Cuff Tendon Repair Systems, in ASME Summer Bioengineering Conference. 2009: Resort at Squaw Creek, Lake Tahoe, California, USA.
 39. Eguizabal J., Tufaga M., Scheer J.K., **McDonald E.**, Do S., Lotz J., Ames C., and Buckley J.M., Multisegmental Spinal Biomechanical Testing Using a Novel 3-D Sliding Ring Pure Moment Apparatus, in Orthopaedic Research Society. 2009: Las Vegas, NV.