

Curriculum Vitae

Ryan Elijah Harold, M.D.

847-370-5144 | ryan.e.harold@gmail.com

Employment:

Illinois Bone and Joint Institute (IBJI) 09/2022 – Present
Offices in: Glenview, Bannockburn, and Morton Grove, IL
Shoulder and Elbow Surgery
Hand and Upper Extremity Surgery

Hospital and Surgery Center Privileges:

Advocate Aurora Lutheran General Hospital 09/2022 – Present
Covering Level 1 Hand Trauma Call (7 days per month)
Park Ridge, IL

Endeavor (NorthShore) Skokie Hospital 09/2022 – Present
Admitting privileges
Skokie, IL

Illinois Sports Medicine and Orthopedic Center (ISMOSC) 09/2022 – Present
Surgery center privileges
Morton Grove, IL

Ravine Way Surgery Center (RWSC) 09/2022 – Present
Surgery center privileges
Glenview, IL

Board Certification:

American Board of Orthopedic Surgery (ABOS) 09/2024 – Present
Board Certified in Orthopedic Surgery

Postgraduate Education and Training:

Washington University 08/2021 – 07/2022
St. Louis, MO
Shoulder and Elbow Surgery
Fellowship Training

Indiana Hand to Shoulder Center 08/2020 – 07/2021
Indianapolis, IN
Hand and Upper Extremity Surgery
Fellowship Training

Northwestern University Feinberg School of Medicine 06/2015 – 06/2020
Chicago, IL
Orthopedic Surgery
Internship and Residency Training

Graduate Education:

University of Illinois College of Medicine at Chicago Chicago, IL Medical Doctorate Graduation with Honors Junior Alpha Omega Alpha (AOA) Honor Society	07/2011 – 05/2015
--	-------------------

Undergraduate Education:

Loyola University Chicago Chicago, IL Post-Baccalaureate Program	08/2009 – 05/2010
Purdue University West Lafayette, IN Bachelor of Science, Mechanical Engineering Academic Dean’s List, 8 consecutive semesters	08/2002 – 05/2006

Medical Licensure:

Illinois Physician License, #036.159363	Exp. 07/31/2026
Missouri Physician License, #2021013951	06/2020-01/2021
Indiana Physician License, #01083512A	02/2020-10/2021
Illinois Temporary Physician License, #125066424	06/2015-06/2020

Leadership Positions and Experiences:

- Journal Reviewer
 - Clinical Orthopedics and Related Research (CORR) 2021-present
 - Journal of Hand Surgery (JHS) 2021-present
 - Journal of Shoulder and Elbow Surgery (JSES) 2020-present
- 3D HEALS – Promoting 3D printing innovation in healthcare
 - Chicago Community Manager 2019-present
- Medical Student Orthopedic Surgery Rotation Lecture:
 - Lectured on Orthopedic Urgencies and Emergencies 3/2019
 - Lectured on Orthopedic Urgencies and Emergencies 7/2018
 - Lectured on Orthopedic Urgencies and Emergencies 4/2017
- Surgical Volunteering Abroad:
 - Operation Walk – Kathmandu, Nepal 2017
 - Assisted with joint reconstruction for underprivileged patients
 - Projects Abroad – Rajapalayam, Tamil Nadu, India 2009
 - Assisted an orthopedic surgeon for 3 weeks

- University of Illinois at Chicago (UIC), College of Medicine:
 - UIC AOA Council, Co-President 2014-2015
 - UIC Class Board, Alumni Chair 2012-2015
 - Society of Prospective Surgeons (SPS), Co-President 2012-2013
- Rube Goldberg Machine Contest:
 - Judge for Regional Competition 2011-2019
 - Judge for National High School and College Competitions 2015, 2016

Honors and Awards:

- Northwestern University Feinberg School of Medicine, Orthopedic Surgery Residency:
 - Young Investigator Traveling Scholarship 2019
 - International Society of Technology in Arthroplasty
 - Young Investigator Abstract Scholarship 2018
 - International Society of Technology in Arthroplasty
 - For scoring in the top 15 of all abstracts submitted
- University of Illinois College of Medicine at Chicago:
 - Graduation with Honors 2015
 - Junior Alpha Omega Alpha (AOA) Honor Society 2014
 - Arrie and Estelle Johnson Bamberger Scholarship 2014
 - Dr. C.M. Craig Summer Research Fellowship 2012
- Purdue University:
 - Rube Goldberg Machine Contest
 - National Champions 2005, 2006
 - Featured on Jimmy Kimmel Live TV show 2005, 2006
 - General team member 2002-2006
 - Undergraduate Dean's List – 8 consecutive semesters 2002-2006
 - Pi Tau Sigma – Mechanical Engineering Honor Society 2005-2006
- Achieved Eagle Scout 2002

Professional Memberships:

- American Shoulder and Elbow Surgery (ASES) 2020-present
- American Association for Hand Surgery (AAHS) 2019-present
- American Society for Surgery of the Hand (ASSH) 2018-present
- American Academy of Orthopedic Surgeons (AAOS) 2015-present
- Alpha Omega Alpha (AOA) Honor Society 2014-present
- American Society of Mechanical Engineers (ASME) 2004-present
- American Medical Association (AMA) 2011-2015

Ryan E. Harold, M.D.

- American Medical Student Association (AMSA) 2011-2015
- National Honor Society 2002

Peer-Reviewed Publications:

1. **R Harold**, P Sweeney, M Torchia, J Kramer. Acromial bony adaptations in rotator cuff tear arthropathy facilitates acromial stress fracture following reverse total shoulder arthroplasty. *Seminars in Shoulder Arthroplasty: JSES* (2024)
2. **R Harold**, P Sweeney, A Chamberlain, J Keener. Total shoulder arthroplasty in patients with a B2 glenoid addressed with high-side corrective reaming: Mean 8-year follow-up. *Journal of Shoulder and Elbow Surgery* (2023)
3. **R Harold**, P Henning, B Smetana, G Merrell. Thumb metacarpophalangeal joint static and dynamic hyperextension in a biomechanical cadaveric model. *Journal of Hand Surgery* (2023)
4. M Hartwell, **R Harold**, P Sweeney, A Seitz, G Marra, M Saltzman. Posterior Rotator Cuff Fatty Infiltration Associated with Increased Posterior Glenoid Wear in Glenohumeral Osteoarthritis: An MRI-based Study. *Clinical Orthopedics and Related Research* (2021)
5. **R Harold**, D Hu, A Edelstein, J Souza, V Brander, SD Stulberg. Patient Reported Outcomes After Total Hip Arthroplasty in a Developing Country by a Visiting Surgical Team. *Arthroplasty Today* (2021)
6. **R Harold**, B Butler, D Delagrammaticas, R Sullivan, M Stover, D Manning. PROMIS Physical Function and Pain Interference Correlates with Modified Harris Hip Score in Total Hip Arthroplasty. *Orthopedics*, 2021 Jan 1;44(1):e19-e25
7. A Martusiewicz, D Delagrammaticas, **R Harold**, S Bhatt, M Beal, DW Manning. Anterior Versus Posterior Approach Total Hip Arthroplasty: Patient Reported and Functional Outcomes in the Early Post-operative Period. *Hip International*, 2020 Nov;30(6):695-702
8. J Chan, **R Harold**, Muturi G. Muriuki, R Havey, D Kalainov. Biomechanical Study of Extensor Tendon Lacerations over the Finger Metacarpophalangeal Joints. *Journal of Hand Surgery Global Online*, 2019. 1(1): p. 15-20.
9. **R Harold**, D Delagrammaticas, T Keller, B Butler, MD Stover, DW Manning. Are Supine Intraoperative and Standing Biplanar Postoperative Radiographic Measurements of Acetabular Cup Position the Same? *Hip International*, 2020 Sep;30(5):530-535
10. **R Harold**, J Macleod, B Butler, R Sullivan, MD Beal, DW Manning. Single Use Custom Instrumentation in Total Knee Arthroplasty: Effect on In-Hospital Complications, Length of Stay, and Discharge Disposition. *Orthopedics*, 2019: p. 1-5.

Ryan E. Harold, M.D.

11. B Butler, C Lawton, R Christian, **R Harold**, P Gourineni, JF Sarwark. Long Leg Splinting for Pediatric Femur Fractures. *Journal of Orthopedics*, 2018. 15(4): p. 971-973.
12. B Butler, C Lawton, **R Harold**, T Peabody, MD Stover. Valgus Osteotomy with Plate and Nail Fixation for the Treatment of Proximal Femoral Deformities Due to Fibrous Dysplasia. *The Journal of Bone and Joint Surgery Case Connector*, 2018; 8(3): p. e71.
13. S Sahota, F Lovecchio, **R Harold**, MD Beal, DW Manning. The Effect of Smoking on Thirty-Day Postoperative Complications After Total Joint Arthroplasty: A Propensity Score-Matched Analysis. *The Journal of Arthroplasty*, 2018. 33(1): p. 30-35.
14. **R Harold**, B Butler, J Lamplot, H Luu, C Lawton, DW Manning. Multifaceted Aseptic Protocol Decreases Surgical Site Infections Following Hip Arthroplasty. *Hip International*, 2018. 28(2): p. 182-188.
15. D Bronsnick, **R Harold**, A Youderian, G Solitro, F Amirouche, B Goldberg. Can High-Friction Intraannular Material Increase Screw Pullout Strength in Osteoporotic Bone? *Clinical Orthopedics and Related Research*, 2015. 473(3): p. 1150-4.

Published Book Chapters:

1. M Oyer, **R Harold**, R Nicolay, M Beal. Medial Pivot Knee. *The Adult Knee, Second Edition*.

Podium Presentations:

1. MJ Hartwell, **RE Harold**, PT Sweeney, AL Seitz, G Marra, M Saltzman. Imbalance in Axial-plan Rotator Cuff Fatty Infiltration in Posteriorly Worn Glenoids in Primary Glenohumeral Osteoarthritis: An MRI-based Study. *International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Global Congress*. November 2021. Virtual Meeting.
2. J Chan, **R Harold**, Muturi G. Muriuki, R Havey, D Kalainov. Biomechanical Study of Extensor Tendon Lacerations over the Finger Metacarpophalangeal Joints. *Mid-America Orthopedic Association Meeting (MAOA)*. April 2019. Miramar Beach, Florida.
 - Presented by: **R Harold**
3. **R Harold**, E Soares, E Cavalcante, M Barros, S Souza, V Brander, SD Stulberg. Patient Reported Outcomes After Total Hip Arthroplasty in a Developing Country by a Visiting Surgical Team: 1-Year Outcomes. *International Society of Technology in Arthroplasty (ISTA) Meeting*. October 2018. London, United Kingdom.
 - Presented by: **R Harold**
4. **R Harold**, D Delagrammaticas, M Stover, DW Manning. Are Supine Intraoperative and Standing Biplanar Postoperative Radiographic Measurements of Acetabular Cup Position

the Same? *International Society of Technology in Arthroplasty (ISTA) Meeting*. October 2018. London, United Kingdom.

- Presented by: **R Harold**

5. **R Harold**, J Macleod, A Mazmudar, B Butler, MD Beal, DW Manning. Patient Specific Instrumentation in Total Knee Arthroplasty Does Not Reduce Length of Stay, In-Hospital Complications, or Discharge Disposition: A Propensity Score Matched Comparison. *American Academy of Orthopedic Surgery (AAOS) Meeting*. March 2018. New Orleans, LA.

- Presented by: **R Harold**

6. S Bhatt, **R Harold**, K Wortman, N Rothroc, MD Stover, DW Manning. PROMIS (Patient-Reported Outcomes Measurement Information System) Physical Function and Pain Assessments are Valid Outcome Measures in Total Hip Arthroplasty as Compared to Legacy Measures. *American Academy of Orthopedic Surgery (AAOS) Meeting*. March 2018. New Orleans, LA.

- Presented by: **R Harold**

7. **R Harold**, D Delagrammaticas, M Oyer, M Sullivan, MD Stover, DW Manning. Acetabular Cup Position Measurements Are Not the Same with Intraoperative RadLink as Compared to Postoperative EOS: A Prospective Analysis. *Mid-America Orthopedic Association Meeting*. April 2018. San Antonio, TX.

- Presented by: **R Harold**

8. **R Harold**, A Edelstein, E Soares, E Cavalcante, M Paula, S Nunes, V Brander, S Julio, SD Stulberg. Patient Reported Outcomes After Total Hip Arthroplasty in a Developing Country by a Visiting Surgical Team: A Prospective Study. *International Society of Technology in Arthroplasty (ISTA)*. September 2017. Seoul, South Korea.

- Presented by: **R Harold**

Poster Presentations:

1. MJ Hartwell, **RE Harold**, PT Sweeney, AL Seitz, G Marra, M Saltzman. Association Between Rotator Cuff Fatty Infiltration and Posterior Glenoid Wear in Glenohumeral Osteoarthritis. *Mid America Orthopaedic Association Annual Meeting (MAOA)*. September 2021. Amelia Island, FL.

2. **RE Harold**, MJ Hartwell, PT Sweeney, A Seitz, G Marra, M Saltzman. Correlation Between Goutallier Classification, Glenoid Version Angle, and Walch Classification on MRI Versus CT Scan in Glenohumeral Osteoarthritis. *Mid America Orthopaedic Association Annual Meeting (MAOA)*. September 2021. Amelia Island, FL.

3. **R Harold**, M Hartwell, P Sweeney, G Marra, M Saltzman. Correlation Between Rotator Cuff Muscle Fatty Infiltration and Glenoid Morphology in Glenohumeral Osteoarthritis.

International Society of Technology in Arthroplasty (ISTA) Meeting. October 2019. Toronto, Ontario, Canada.

- e-Poster with short presentation by: **R Harold**

4. A Bi, **R Harold**, K Suresh, SK Singh, MD Beal, DW Manning. Influence of Inter-Hospital Transfer on Complication Rates after Hip Fractures. *American Academy of Orthopedic Surgery (AAOS) Meeting*. March 2019. Las Vegas, NV
5. **R Harold**, D Delagrammaticas, M Oyer, M Sullivan, MD Stover, DW Manning. Acetabular Cup Position Measurements Are Not the Same with Intraoperative RadLink as Compared to Postoperative EOS: A Prospective Analysis. *American Association of Hip and Knee Surgeons (AAHKS) Meeting*. November 2018. Dallas, TX.
6. D Johnson, M Hartwell, **R Harold**, J Weiner, DW Manning. Which Post-operative Day after Total Joint Arthroplasty are Catastrophic Events Most Likely to Occur? *American Association of Hip and Knee Surgeons (AAHKS) Meeting*. November 2018. Dallas, TX.
7. **R Harold**, D Hu, L Woeltjen, V Brander, SD Stulberg. Feasibility of Using a Surface Sensor to Measure Activity Specific Outcomes After Total Knee Replacement. *International Society of Technology in Arthroplasty (ISTA) Meeting*. October 2018. London, United Kingdom.
 - e-Poster with short presentation by: **R Harold**
8. J Chan, **R Harold**, Muturi G. Muriuki, R Havey, D Kalainov. Biomechanical Study of Partial Extensor Tendon Lacerations over the Finger Metacarpalphalangeal Joints. *Hand Society's 73rd Annual Meeting*. September 2018. Boston, MA
9. S Bhatt, **R Harold**, K Wortman, N Rothrock, MD Stover, DW Manning. PROMIS (Patient-Reported Outcomes Measurement Information System) Physical Function and Pain Assessments Are Valid Outcome Measures in Total Hip Arthroplasty as Compared to Legacy Measures. *Mid-America Orthopedic Association Meeting*. April 2018. San Antonio, TX
10. **R Harold**, B Butler, M Oyer, D Delagrammaticas, MD Stover, DW Manning. PROMIS (Patient-Reported Outcomes Measurement Information System) Physical Function and Pain Interference Computer Adaptive Testing Correlates Well with Modified Harris Hip Score in Total Hip Arthroplasty. *Mid-America Orthopedic Association Meeting*. April 2018. San Antonio, TX
11. S Bhatt, **R Harold**, K Wortman, N Rothrock, MD Stover, DW Manning. PROMIS (Patient-Reported Outcomes Measurement Information System) Physical Function and Pain Assessments Are Valid Outcome Measures in Total Hip Arthroplasty as Compared to Legacy Measures. *American Academy of Orthopedic Surgery (AAOS) Meeting*. March 2018. New Orleans, LA

Grant Support:

- **The St. Vincent Hand and Upper Extremity Research and Education Endowment Fund** 2020
Fellow recipient
Principal Investigators: Dr. Gregory Merrell, Dr. Brandon Smetana
Project: Thumb metacarpophalangeal joint static and dynamic hyperextension in a biomechanical cadaveric model
Award: \$5,320
- **Orthopedic Research and Education Fund (OREF) Grant** 2018
Resident recipient
Principal Investigator: Dr. Erin L. Hsu, PhD
Project: Can a Novel 3D Printed, Citrate-Based, Strontium-Containing Material Serve as Bioabsorbable Bone Graft with Osteoinductive Properties?
Award: \$4,992
- **Northwestern University Orthopedic Surgery Resident Research Fund** 2018
Resident recipient
Principal Investigator: Dr. Erin L. Hsu, PhD
Project: Can a Novel 3D Printed, Citrate-Based, Strontium-Containing Material Serve as Bioabsorbable Bone Graft with Osteoinductive Properties?
Award: \$7,063
- **Northwestern University Orthopedic Surgery Resident Research Fund** 2017
Resident recipient
Principal Investigator: Dr. Michael Stover, MD
Project: Does the Aid of a 3D Printed Model Improve Resident Understanding and Operative Planning for Complex Fractures?
Award: \$250
- **Northwestern University Orthopedic Surgery Resident Research Fund** 2017
Resident recipient
Principal Investigator: Dr. S. David Stulberg, MD
Project: Patient Reported Outcomes After Total Hip Arthroplasty in a Developing Country by a Visiting Surgical Team: A Prospective Study.
Award: \$2,000

Educational Courses Attended:

- Advanced Shoulder Arthroplasty Meeting (ASAP) – Snowbird, UT 2024
- Nice Shoulder Course, Course Chairman – Pascal Boileau – Nice, France 2022
- Tornier Fellow’s Shoulder Arthroplasty Course – Denver, CO 2022
- Arthrex Fellow’s Shoulder Arthroscopy Course – Naples, FL 2022

Ryan E. Harold, M.D.

- Depuy Fellow's Shoulder Arthroplasty Course – Austin, TX 2022
- AAOS/ASES Anatomic and Reverse Total Shoulder Arthroplasty:
State of the Art – Rosemont, IL 2022
- Mixed Reality in Shoulder Arthroplasty using HoloLens 2, Industry
Sponsored – St. Louis, MO 2022
- Advanced Shoulder Arthroplasty Meeting (ASAP) – Snowbird, UT 2022
- Fellows Total Elbow Arthroplasty Course, Industry Sponsored – Park Ridge, IL 2021
- Augmented Reality in Shoulder Arthroplasty using HoloLens 2, Industry
Sponsored – Indianapolis, IN 2021
- Best in Practice Nerve Repair: Fellow Edition, Axogen sponsored cadaver
course – Indianapolis, IN 2020
- Microvascular Surgery Skills Training Course – Mayo Clinic, Rochester, MN 2020
- Advanced Shoulder Arthroplasty Meeting (ASAP) – Snowbird, UT 2020
- American Shoulder and Elbow Surgery (ASES) 2019 Resident Course: Essentials
of Shoulder and Elbow Surgery – Rosemont, IL 2019
- International Congress for Joint Reconstruction (ICJR) 8th Annual Shoulder
Course – Las Vegas, NV 2019
- San Diego Shoulder Institute 2019 Endured Course – San Diego, CA 2019
- American Academy of Orthopedic Surgery (AAOS)/American Shoulder and
Elbow Surgery (ASES) Reverse Total Shoulder and Latarjet/Open Instability
Procedures – Rosemont, IL 2019
- Total Shoulder Arthroplasty Laboratory, Industry Sponsored, Park Ridge, IL 2019
- Total Elbow Arthroplasty Laboratory, Industry Sponsored, Burr Ridge, IL 2019
- AO Trauma – Advanced Principles – Toronto, Ontario 2017
- American Academy of Orthopedic Surgery (AAOS), Fundamentals of Hip and Knee
Arthroplasty – Rosemont, IL 2017
- American Academy of Hip and Knee Surgery (AAHKS), Resident Arthroplasty
Course – Dallas, TX 2017
- AO Trauma – Basic Principles – Minneapolis, MN 2016

Ryan E. Harold, M.D.

Conferences Attended:

- American Shoulder and Elbow Surgeons (ASES) Annual Meeting – Scottsdale, AZ 2023
- American Shoulder and Elbow Surgeons (ASES) Specialty Day - Las Vegas, NV 2023
- American Academy of Orthopedic Surgery (AAOS) – Chicago, IL 2022
- American Shoulder and Elbow Surgeons (ASES) Annual Meeting – Tampa, FL 2021
- American Society for Surgery of the Hand (ASSH) 76th Annual Meeting – Virtual 2020
- American Shoulder and Elbow Surgeons (ASES) Annual Meeting – Virtual 2020
- International Society of Technology in Arthroplasty (ISTA) – Toronto, Canada 2019
- Mid-America Orthopedic Association (MAOA) – Miramar Beach, Florida 2019
- American Academy of Orthopedic Surgery (AAOS) – Las Vegas, NV 2019
- American Academy of Hip and Knee Surgeons (AAHKS) – Dallas, TX 2018
- International Society of Technology in Arthroplasty (ISTA) – London, UK 2018
- Mid-America Orthopedic Association (MAOA) – Houston, TX 2018
- American Academy of Orthopedic Surgery (AAOS) – San Antonio, TX 2018
- American Academy of Hip and Knee Surgeons (AAHKS) – Dallas, TX 2017
- International Society of Technology in Arthroplasty (ISTA) – Seoul, South Korea 2017
- Chicago Trauma Symposium – Chicago, IL 2017

Hobbies and Interests:

Family, running, golfing, skiing, traveling, 3D printing