

Jeffrey J. Olson, M.D.

Southington, CT
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CURRENT POSITIONS

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| Orthopaedic Associates of Hartford Orthopaedic Surgeon Shoulder & Elbow Surgery Sports Medicine Hartford, CT | 09/2023 – Present |
| RevelAI Clinical Advisor, Principal Investor | 06/11/2022 – Present |
| Team Physician Avon High School, Avon, CT Cromwell High School, Cromwell, CT Enfield High School, Enfield CT | 08/2023 -- Present |

EDUCATION & TRAINING

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|---|-------------------|
| Fellowship Shoulder and Elbow Reconstructive Surgery Washington University in St. Louis | 08/2022 – 07/2023 |
| Residency Harvard Combined Orthopaedic Residency Program, Boston, MA <i>Administrative Chief Resident (2021-2022)</i> | 06/2017 – 06/2022 |
| Doctor of Medicine Case Western Reserve University School of Medicine, Cleveland, OH <i>Alpha Omega Alpha Honors Society</i> | 07/2013 – 05/2017 |
| Bachelor of Arts - Biology College of the Holy Cross, Worcester, MA <i>Cum laude</i> | 09/2008 – 05/2012 |

SOCIETY MEMBERSHIP

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| American Academy of Orthopaedic Surgeons – Candidate member | 07-2017 – Present |
| American Shoulder and Elbow Society – Fellow member | 07/2021 – Present |
| Orthopaedic Trauma Association – Candidate member | 06/2021– Present |
| Connecticut Orthopedic Society – Member | 01/2024 —Present |

LICENSURE & CERTIFICATIONS

CT State Medical License #71980
Expires 03/31/2027

AWARDS & HONORS

- The Ivan E. Shalit Prize
 - *Awarded to two medical students who exceeded in demonstrated excellence in patient care.*
- M.D. Thesis – Honors with Distinction in Research

RESEARCH

Grants

Completed

Grant #19-094

12/2019 – 05/2021

Orthopedic Research and Education Foundation (OREF): Resident Research Grant

Biomechanical Testing of a Proximal Humerus Fixation: A Novel Approach

Principal Investigator: Jeffrey J. Olson, MD

Mentor: Edward K. Rodriguez, MD PhD

Total Amount: \$5000

Dean's Summer Research Grant

06/2014 – 08/2014

Traumatic Humeral Shaft Fractures in an Adult Population

Principal Investigator: Heather A. Vallier, MD

Total Amount: \$1500

Peer-reviewed Publications

1. Fares, MY, Liu, HH, da Silva Etges, APB, Zhang B, Warner JJP, **Olson JJ** MDm Fedorka CJ, Khan AZ. Best MJ, Kirsch JM, Simon JE, Sanders B, Costouros JG, Zhang X, Jones P, Haas D, Abboud JA; on behalf of The Avant-Garde Health and Codman Society Value-Based Care Group*. Utility of Machine Learning, Natural Language Processing, and Artificial Intelligence in Predicting Hospital Readmissions After Orthopaedic Surgery: A Systematic Review and Meta-Analysis. *JBJS Reviews* 12(8):e24.00075, August 2024. | DOI: 10.2106/JBJS.RVW.24.00075
2. Hill JR, Welbeck AN, **Olson JJ**, Aleem AW, Keener JD, Zmistowski BM. Functional deficiencies following reverse and anatomic total shoulder arthroplasty: detecting true differences. *Seminars in Arthroplasty: JSES*, 2025, ISSN 1045-4527, <https://doi.org/10.1053/j.sart.2024.12.005>.
3. Hill JR, **Olson JJ**, Sefko JA, Steger-May K, Teeffey SA, Middleton WD, Keener JD. Does surgical intervention alter the natural history of degenerative rotator cuff tears? Comparative analysis from a prospective longitudinal study. *J Shoulder Elbow Surg.* 2025 Feb;34(2):430-440. doi: 10.1016/j.jse.2024.05.056. Epub 2024 Jul 31. PMID: 39089418; PMCID: PMC11725452.
4. **Olson JJ**, Hill JR, Buchman B, Aleem AW, Keener JD, Zmistowski BM. Midterm radiographic outcomes of anatomic total shoulder arthroplasty in biplanar glenoid deformities. *J Shoulder Elbow Surg.* 2025 Apr;34(4):1043-1050. doi: 10.1016/j.jse.2024.07.020. Epub 2024 Aug 31. PMID: 39218346.
5. Hill JR, Fadell N, **Olson JJ**, Kahan LG, Aleem AW, Keener JD, Yamaguchi, K, Zmistowski, BM. Incidence of and Risk Factors for Reoperation and Revision Following Total Elbow Arthroplasty with an Anatomic Convertible Prosthesis. *The Journal of Bone and Joint Surgery (2024)*:10.2106/JBJS.23.01171, June 14, 2024. | DOI: 10.2106/JBJS.23.01171
6. Hill JR, **Olson JJ**, Aleem AW, Keener JD, Zmistowski BM Three-dimensional analysis of biplanar glenoid deformities: What are they and can they be virtually reconstructed with anatomic total shoulder arthroplasty implants? *J Shoulder Elbow Surgery.* (2024) <https://doi.org/10.1016/j.jse.2024.01.026>
7. **Olson JJ**, Hill JR, Wang J, Sefko JA, Teeffey SA, Middleton WD. Predictors of Pain Development for Contralateral Asymptomatic Degenerative Rotator Cuff Tears based on Features of a Ipsilateral Painful Cuff Tear – A Prospective Longitudinal Cohort Study. *J Shoulder Elbow Surgery.* (2023) <https://doi.org/10.1016/j.jse.2023.09.008>
8. **Olson JJ**, Granger CJ, Hill JR, Aleem AW, Keener JD, Zmistowski BM. Revision of Failed Reverse Total Shoulder Arthroplasty with Reverse: Short-term Clinical Outcomes. *J Shoulder Elbow Surgery.* (2023) <https://doi.org/10.1016/j.jse.2023.07.030>

9. Grisdela P, **Olson JJ**, Guild T, Dekhne M, Hresko A, Singh UM, Weaver MJ, von Keudell AG, Stenquist D. Complications and soft tissue coverage after complete articular, open tibial plateau fractures. *Injury*. (2022). <https://doi.org/10.1016/j.injury.2022.12.012>
10. Cho, E, Taylor, A, **Olson, JJ**, Entezari, V, Vallier, HA. Complications are infrequent after humeral shaft fractures due to low energy gunshot injuries. *Journal of Orthopaedic Trauma* ():10.1097/BOT.0000000000002491, September 16, 2022. | DOI: 10.1097/BOT.0000000000002491
11. **Olson JJ**, O'Donnell EA, Dang K, Huynh TM, Lu AZ, Kim C, Haberli J, Warner JJP, Prevalence, Management, and Outcomes of Nerve Injury after Shoulder Arthroplasty: A Case Control Study and Review of the Literature, *JSES Reviews, Reports, and Techniques* (2022), doi: <https://doi.org/10.1016/j.xrrt.2022.04.009>. PMID 37588461
12. **Olson JJ**, Galetta MD, Keller RE, Oh LS, O'Donnell EA, Systematic Review of Prevalence, Risk Factors, and Management of Instability Following Reverse Shoulder Arthroplasty, *JSES Reviews, Reports, and Techniques* (2022), doi: <https://doi.org/10.1016/j.xrrt.2022.02.009>. PMID 37588866
13. Entezari V*, **Olson JJ***, Vallier HA. Predictors of traumatic nerve injury and nerve recovery following humeral shaft fracture. *J Shoulder Elbow Surg*. 2021 May 5:S1058-2746(21)00405-5. doi:10.1016/j.jse.2021.04.025 PMID: 33964428.
14. **Olson JJ**, Anand K, Esposito JG, von Keudell AG, Rodriguez EK, Smith RM, Weaver MJ. Complications and Soft Tissue Coverage Following Complete Articular, Open Tibial Plafond Fractures. *J Orthop Trauma*. 2021 Mar 5. doi: 10.1097/BOT.0000000000002074. Epub ahead of print. PMID: 33675626.
15. **Olson JJ**, Zhang B, Zhu D, Zheng ET, Dyer GSM, Rozental TD, LaPorte DM. Do Resident Surgical Volumes and Level of Training Correlate with Improved Performance on Psychomotor Skills Tasks: Construct Validity Testing of an ASSH Training Platform (STEP)? *JB JS Open Access*. 2021 Feb 19;6(1):e20.00123. doi: 10.2106/JBJS.OA.20.00123. PMID: 33748639; PMCID: PMC7963499.
16. **Olson JJ**, Dyer GSM. "Skinny Wire and Plate Fixation for Complex Intraarticular Distal Humerus Fractures: A Novel Surgical Technique and Results." *JSES Reviews, Reports, and Techniques 1* (2021) 34e40
17. **Olson JJ**, Entezari V, Vallier HA. Risk factors for nonunion after traumatic humeral shaft fractures in adults. *JSES Int*. 2020 Jul 23;4(4):734-738. doi: 10.1016/j.jseint.2020.06.009. PMID: 33345208; PMCID: PMC7738446.
18. **Olson JJ**, Schwab PE, Jackson J, Lange JK, Bedair HS, Abdeen A. HIV-Positive Patients Are at Increased Risk of Venous Thromboembolism After Total Joint Replacement. *J Am Acad Orthop Surg*. 2021 Jun 1;29(11):479-485. doi: 10.5435/JAAOS-D-20-00737. PMID: 33252548.
19. **Olson JJ**, Anand K, von Keudell A, Esposito JG, Rodriguez EK, Smith RM, Weaver MJ. Judicious Use of Early Fixation of Closed, Complete Articular Pilon Fractures Is Not Associated With an Increased Risk of Deep Infection or Wound Complications. *J Orthop Trauma*. 2021 Jun 1;35(6):300-307. doi: 10.1097/BOT.0000000000001991. PMID: 33165207.
20. Cronin PK, **Olson JJ**, Harris MB, Weaver MJ. Severe aortic stenosis is associated with perioperative mortality in proximal femur fracture patients. *OTA Int*. 2020 May 5;3(2):e054. doi: 10.1097/OI9.0000000000000054. PMID: 33937694; PMCID: PMC8022902.
21. Masoudi A, Beamer BS, Harlow ER, Manoukian OS, Walley KC, Hertz B, Haeussler C, **Olson JJ**, Zurakowski D, Nazarian A, Ramappa AJ, DeAngelis JP. "Biomechanical Evaluation of an All-Inside Suture-Based Device for Repairing Longitudinal Meniscal Tears." *Arthroscopy*. 2015 Mar; 31(3):428-34. PMID: 25442653.
22. Beamer BS, Masoudi A, Walley KC, Harlow ER, Manoukian OS, Hertz B, Haeussler C, **Olson JJ**, DeAngelis JP, Nazarian A, Ramappa AJ. "Analysis of a New All-Inside Versus Inside-Out Technique for Repairing Radial Meniscal Tears." *Arthroscopy*. 2015 Feb; 31(2):293-8. PMID: 25312766.

*Denotes equal contribution to manuscript

Podium Presentations

1. Hill JR, **Olson JJ**, Sefko JA, Steger-May K, Teeffey SA, Middleton WD, Keener JD. Does Surgical Intervention Alter the Natural History of Degenerative Rotator Cuff Tears? Comparative Analysis from a Prospective Longitudinal Study. 2023 American Shoulder and Elbow Surgery Annual Meeting. October 3-7, 2023 Scottsdale, AZ.
2. Hill, JR, Fadell N, **Olson JJ**, Aleem A, Keener J, Yamaguchi K, Zmistowski BM. The Incidence and Risk Factors for Reoperation and Revision Following Total Elbow Arthroplasty with an Anatomic Convertible Prosthesis. 15th International Congress on Shoulder and Elbow Surgery. 2023 American Shoulder and Elbow Surgery Annual Meeting. October 3-7, 2023 Scottsdale, AZ.

3. Zmistowski BM, **Olson JJ**, Granger CJ, Hill RJ, Aleem A, Keener JD. Revision of Failed Reverse Total Shoulder Arthroplasty with Reverse: Short-term Clinical Outcomes. 15th International Congress on Shoulder and Elbow Surgery. September 5-8, 2023. Rome, Italy.
4. Hill, JR, Fadell N, **Olson JJ**, Aleem A, Keener J, Yamaguchi K, Zmistowski BM. The Incidence and Risk Factors for Reoperation and Revision Following Total Elbow Arthroplasty with an Anatomic Convertible Prosthesis. 15th International Congress on Shoulder and Elbow Surgery. September 5-8, 2023. Rome, Italy.
5. **Olson JJ**, Hill JR, Wang J, Keener JD. Pain Generation in the Contralateral Asymptomatic Shoulder in Patients with a Painful Cuff Tear: A Prospective, Longitudinal Cohort Study. ASES Fellow's Day, San Diego Shoulder Institute Annual Meeting, San Diego, CA. June 17, 2023
6. Grisdela Jr. P., **Olson JJ**, Guild T, Dekhne M., Hresko M., Singh M, Weaver M., von Keudell A., Stenquist D., Complications and Soft Tissue Coverage After Complete Articular, Open Tibial Plateau Fractures. Podium presentation at the Society of Military Orthopaedic Surgeons 64th Annual Meeting; December 16, 2022; Scottsdale, AZ
7. Grisdela P, **Olson JJ**, Guild T, Hresko D, Suneja N, Von keudell AG, Weaver MJ, Stenquist D. Complications and soft tissue coverage after complete articular, open tibial plateau fractures. Presented at the 12th Annual Harvard Orthopedic Trauma Research Day, Boston, MA. (Presented by Philip Grisdela)
8. **Olson JJ**, O'Donnell EA, Dang K, Hunyh TM, Lu AZ, Kim C, Warner JJ. "Prevalence, Management, and Outcomes of Nerve Injury after Shoulder Arthroplasty. Presented at New England Shoulder and Elbow Society Annual Meeting, Jay Peek, VT. February 12, 2022. (Presented by Jeffrey Olson)
9. Molenaars R, Medina G, Eygendaal D, **Olson JJ**, Oh LS. "Elbow Stress Radiographs and UCL Injury Severity in Throwers." Presented at New England Shoulder and Elbow Society Annual Meeting, Jay Peek, VT. February 13, 2021. (Presented by Jeffrey Olson)
10. **Olson JJ**, Dyer GSM. "Skinny Wire and Plate Fixation for Complex Intraarticular Distal Humerus Fractures: A Novel Surgical Technique and Results." Presented at New England Hand Society Meeting, Sturbridge, MA. Dec 2019. (Presented by Jeffrey Olson)
11. **Olson JJ**, von Keudell A, Esposito J, Smith RM, Weaver MJ. "Comparison of Infection Rates Between Early Primary and Delayed Staged Fixation of 478 Complete Articular Pilon Fractures." Harvard Orthopedic Trauma Initiative Research Day. June 2019 (Presented by Jeffrey Olson)
12. Ricchetti ET, **Olson JJ**, Patterson TE, Frangiamore SJ, Bauer TW, Daly TM, Zhang X, Derwin K, Iannotti JP. "Analysis of Synovial Fluid Cytokine Profiles in Determining Significance of Positive Culture Results in Patients Undergoing Primary Total Shoulder Arthroplasty for Glenohumeral Osteoarthritis. 2017 ASES Annual Meeting. New Orleans, LA. October 2017 (Presented by Eric Ricchetti, M.D.)
13. **Olson JJ**, Marjoua Y, Ayres D, Novak V, Abdeen A "Total Joint Arthroplasty in HIV Positive Patients: Predictive Factors." Orthopaedic Research Society Annual Meeting. San Diego, CA. March 2017. (Presented by Jeffrey Olson)
14. **Olson JJ**, Entezari V, Vallier HA "Nerve Injury and Recovery after Traumatic Humeral Shaft Fractures in an Adult Population." Mid-America Orthopaedic Association Annual Meeting; Bonita Springs, FL. April 2016. (Presented by Jeffrey Olson)
15. Entezari V, **Olson JJ**, Vallier HA; "Operative vs. Non-operative Management of Humeral Shaft Fractures." Alan Wilde, M.D. Resident and Fellow Research Symposium; Cleveland, OH, USA. June 2015 (Presented by Vahid Entezari)

Poster Presentations

1. Hill JR, **Olson JJ**, Aleem AW, Keener JD, Zmistowski BM. Functional Deficiencies Following Reverse and Anatomic Total Shoulder Arthroplasty: Detecting True Differences. 15th International Congress on Shoulder and Elbow Surgery. September 5-8, 2023. Rome, Italy.
2. Hill JR, Fadell N, **Olson JJ**, Aleem A, Keener J, Yamaguchi K, Zmistowski BM. The Incidence and Risk Factors for Reoperation and Revision Following Total Elbow Arthroplasty with an Anatomic Convertible Prosthesis. ASES Fellow's Day, San Diego Shoulder Institute Annual Meeting, San Diego, CA. June 17, 2023
3. **Olson JJ**, Galetta M, Keller R, Oh LS, O'Donnell EA. Systematic Review of Prevalence, Risk Factors, and Management of Instability Following Reverse Shoulder Arthroplasty. 2022 American Academy of Orthopaedic Surgery Annual Meeting, Chicago, IL. March 2022
4. **Olson JJ**, Williamson P, Momenzadeh K, Kheir N, Rodriguez EK, Nazarian A. "Biomechanical Testing of a Proximal Humerus Fixation: A Novel Approach." XXVIII Congress of the International Society of Biomechanics. ISB 2021. July 25, 2021

5. Zhu D, **Olson JJ**, Zhang B, Uong J, Zheng ET, Rozental TD, Dyer GSM, Laporte D. "Do Resident Surgical Volumes Correlate with Improved Performance on Psychomotor Skills Tasks: Construct Validity Testing of an ASSH Training Platform. 2020 American Society for Surgery of the Hand (ASSH) Annual Meeting.
6. **Olson JJ**, Schwab PE, Jackson J, Lange JK, Bedair HS, Abdeen A. "Venous Thromboembolism in HIV Positive Patients Following Total Joint Replacement. E-poster presented at 2020 American Academy of Orthopaedic Surgery Annual Meeting
7. **Olson JJ**, von Keudell A, Esposito J, Smith RM, Weaver MJ. "Comparison of Infection Rates Between Early Primary and Delayed Staged Fixation of 478 Complete Articular Pilon Fractures." Orthopaedic Trauma Association Annual Meeting. September 2019.
8. Cronin PK, **Olson JJ**, Weaver MJ, MD. "Aortic stenosis and perioperative mortality in hip fracture patients." Harvard Orthopaedic Trauma Initiation Research Day. Boston, MA. May 2018.
9. Ricchetti ET, **Olson JJ**, Patterson TE, Frangiamore SJ, Bauer TW, Daly TM, Zhang X, Derwin K, Iannotti JP. "Analysis of Synovial Fluid Cytokine Profiles in Determining Significance of Positive Culture Results in Patients Undergoing Primary Total Shoulder Arthroplasty for Glenohumeral Osteoarthritis. 2018 AAOS Annual Meeting. New Orleans, LA. March 2018
10. Entezari V, **Olson JJ**, Vallier HA. "Increased Fracture Angulation Results in Delayed Union After Nonoperative Management of Traumatic Humeral Shaft Fractures." Mid-America Orthopaedic Association Annual Meeting. Bonita Springs, FL. April 2016.
11. Entezari V, **Olson JJ**, Vallier HA. "Nerve Injury and Recovery after Traumatic Humeral Shaft Fractures in a Level I Trauma Center." Orthopaedic Trauma Association Annual Meeting, San Diego, CA. October 2015.
12. Entezari V, **Olson JJ**, Vallier HA. "Predictors of Nonunion after Operative and Nonoperative Management of Humeral Shaft Fractures in a Level I Trauma Center." Orthopaedic Trauma Association Annual Meeting. San Diego, CA. October 2015.
13. **Olson JJ**, Entezari, V, Vallier HA. "Epidemiology of Traumatic Humeral Shaft Fractures in an Adult Population: 15-year experience in a Level I Trauma Center." Lepow Day, Case Western Reserve University. Cleveland, OH. February 2015.
14. Masoudi A, Beamer BS, Harlow ER, Manoukian OS, Walley KC, Hertz B, Haeussler C, **Olson JJ**, Nazarian A, Ramappa AJ, DeAngelis JP. "Biomechanical Evaluation of an All-Inside Suture-Based Device for Repairing Longitudinal Meniscal Tears." Orthopaedic Research Society Annual Meeting. New Orleans, LA. March 2014.
15. Beamer BS, Masoudi A, Walley KC, Harlow ER, Manoukian OS, Hertz B, Haeussler C, **Olson JJ**, DeAngelis JP, Nazarian A, Ramappa AJ. "Analysis of a New All-Inside Versus Inside-Out Technique for Repairing Radial Meniscal Tears." Orthopaedic Research Society Annual Meeting. New Orleans, LA. March 2014.

Editorial Activities

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| ▪ Abstract Review Committee – 2023 American Shoulder and Elbow Society meeting | 05/23 – present |
| ▪ Abstract Review Committed – 15 th International Congress on Shoulder & Elbow Surgery. | 01/23 – 06/23 |
| ▪ Editorial Board– Arthroscopy: Journal of Arthroscopic and Related Surgery | 07/20 – present |
| ▪ Reviewer—Journal of Shoulder and Elbow Surgery | 05/21 – present |
| ▪ Reviewer -- BMC Musculoskeletal Disorders | 06/18 – present |

LEADERSHIP EXPERIENCE

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| Harvard Orthopedic Residency Education Committee | 07/20 – 06/21 |
| <ul style="list-style-type: none"> ▪ Served as the PGY-4 class representative for the 2020-2021 annual year. Committee meets monthly with faculty attendings and other residency representatives from all classes to discuss and implement changes to the residency education related issues (i.e. call-schedule, residency rotations, electives, skills labs, etc.) | |
| Residency CORE Education Block Leader – Orthopaedic Trauma | 07/19 – 06/21 |
| <ul style="list-style-type: none"> ▪ Organized weekly education sessions for the orthopaedic trauma block. Duties included developing a two-year orthopedic trauma curriculum, arranging faculty members to lead each session, finding relevant literature for assigned weekly readings, and leading OITE review sessions | |
| Brigham and Women's House Staff Council Member | 10/18 – 10/19 |
| <ul style="list-style-type: none"> ▪ Met quarterly to discuss house staff specific quality improvement topics | |

- Helped restructure and renovate the Harvard orthopedic residency didactic curriculum

PERSONAL INTERESTS AND ACCOMPLISHMENTS

- Spending time with family, my dog Macie, sports, weightlifting, traveling, food/restaurants
- Completed the 2017 Towpath Half-Marathon in Cleveland, OH
- Completed the 2013 Tough Mudder at Gunstock Resort, NH.