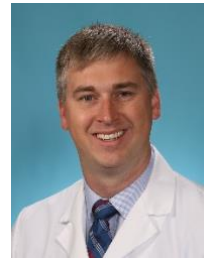


CURRICULUM VITAE

JONATHON D. BACKUS, M.D.



DATE: Jan 13, 2026

CITIZENSHIP: USA

ADDRESS AND TELEPHONE NUMBERS:

The Steadman Clinic
181 W. Meadow Drive
Suite 400
Vail, CO 81657
970-401-8949 Office/ 970-237-5596 Fax

PRESENT POSITION:

The Steadman Clinic, Vail, CO

EDUCATION:

- | | |
|-----------|---|
| 2001-2005 | BS in Molecular and Cellular Biology,
Minor in Chemistry, Cum Laude and Departmental Distinction,
University of Illinois Urbana – Champaign, IL |
| 2004 | Biomedical Sciences
Kings College London, UK |
| 2006-2010 | Doctorate of Medicine
Duke University School of Medicine, Durham, NC |
| 2010-2015 | Residency, Department of Orthopaedic Surgery
Washington University School of Medicine/
Barnes-Jewish Hospital, St. Louis, MO |
| 2015-2016 | The Steadman Clinic Foot and Ankle Fellowship Program, Vail, CO |

ACADEMIC POSITIONS / EMPLOYMENT:

- | | |
|-----------|---|
| 2016-2019 | Private Practice
Cornerstone Orthopaedics & Sports Medicine, P.C.
Orthopaedic Foot and Ankle Surgeon
3 Superior Drive, Suite 225
Superior, CO 80027 |
| 2019-2023 | Assistant Professor, Department of Orthopaedic Surgery
Washington University School of Medicine, St. Louis, Missouri |

2023-Present Director of Foot and Ankle Research
The Steadman Clinic
181 W. Meadow Drive
Suite 400
Vail, CO 81657

NATIONAL, UNIVERSITY, AND HOSPITAL APPOINTMENTS AND COMMITTEES:

2016-2019 American Orthopaedic Foot and Ankle Society
Member of the Young Physician Committee

2016-2019 American Orthopaedic Foot and Ankle Society
Member of Evidence Based Medicine Committee

2019-2023 St. Louis Foot and Ankle Study Group
President

2019-2025 American Orthopaedic Foot and Ankle Society
Education Committee

2019-2023 Barnes-Jewish Hospital
One Barnes-Jewish Hospital Plaza
St. Louis, MO 63110
Active Status

2019-2023 Barnes-Jewish Hospital
Washington University Orthopedic Center
14532 South Outer Forty Drive
Chesterfield, MO 63017
Attending Status

2019-2023 Barnes-Jewish Hospital
Progress West Healthcare Center
2 Progress Point Parkway
O'Fallon, MO 63368
Active Status

2020-2023 Barnes-Jewish West County Hospital
12634 Olive Boulevard
St. Louis, MO 63141
Active Status

2020-2023 BJH Credentialing Committee

2021-2022 BJH Ortho Trauma Physician Sub Group Committee

2022-2023 Washington University Department of Orthopaedic Surgery
Orthopaedic Resident Clinical Competency Committee

2021-2023 American Orthopaedic Foot and Ankle Society
Member at Large, Board of Directors

2023-present American Orthopaedic Foot and Ankle Society
Committee on Outside Collaborations, Chair

2024-2026 Orthopaedic Foot and Ankle Foundation
Member at Large, Board of Directors

2025-present Vail Health Credentialing Committee

MEDICAL LICENSURE AND BOARD CERTIFICATION:

2015-present Colorado Department of Regulatory Agencies, #54772

2018-2028 American Board of Orthopaedic Surgery, Certified

2019-2024 Missouri Board of Registration for the Healing Arts, #2019009680

2020-2023 Illinois Department of Financial and Professional Regulation, #036156480

HONORS AND AWARDS:

2001-2005 Graduated Cum Laude with Departmental Distinction "MeCP2 Promoter
Activity during *Xenopus Tropicalis* Development"

2001-2005 Edmund James Scholar: University of Illinois Scholar Program

2005 Cancer Research Training Award Fellowship, National Cancer Institute

2013 AOFAS Resident Scholar

2020 AOFAS Traveling Fellow Alternate

2021-2025 Castle Connolly Top Doctor

2024 Finalist Roger Mann Award for best clinical paper at the AOFAS annual meeting

EDITORIAL RESPONSIBILITIES:

2018-Present *Foot & Ankle International*, Reviewer

2018-Present *Foot & Ankle Orthopaedics*, Reviewer

2019-Present *Techniques of Foot & Ankle*, Reviewer

2024-Present *Foot and Ankle Specialist*, Reviewer

2024-2026 *Foot & Ankle International*, Specialty Content Editor

PROFESSIONAL SOCIETIES AND ORGANIZATIONS:

American Academy of Orthopaedic Surgeons Member - active

American Orthopaedic Foot and Ankle Society Member - active

U.S. Ski Team Pool Physician – active

MAJOR INVITED PROFESSORSHIPS AND LECTURESHIPS:

1. McAndrew CM, **Backus JD**, Putnam SM. Ankle Fractures: The good, the bad, and the ugly. Symposium II. Mid-America Orthopaedic Association Annual meeting 2022, San Antonio, TX. April 6-10, 2022.
2. **Backus JD**. Arthroscopy for Ankle Fractures: Symposium 5: Arthroscopy for Arthritis and Fractures: Indications and Techniques. Moderators Fortin PT, Hepple S. American Orthopaedic Foot & Ankle Society 2022 Annual Meeting. Quebec City, Canada. September 14-17, 2022.
3. **Backus JD**. Moderator, Paper Session1: Ankle/Hindfoot Arthritis. American Orthopaedic Foot & Ankle Society 2023 Winter Meeting. Big Sky, MT. January 27, 2023
4. **Backus JD**. Moderator, Paper Session 2A: Total Ankle 1. American Orthopaedic Foot & Ankle Society 2023 Annual Meeting. Louisville, KY. September 22, 2023
5. **Backus, JD**. Faculty, Arthroscopy Association of North America (AANA) Advanced Foot and Ankle Arthroscopy Course. Rosemont, IL. November 3-4, 2023
6. **Backus, JD**. Is Microfracture Still the Answer for First-Line OLT Treatment? Symposium 5: Sports Controversies. Moderators: Doty, J, Cooper, T. American Orthopaedic Foot & Ankle Society 2025 Winter Annual Meeting. Lake Louise, Alberta, Canada. January 16-19, 2025
7. **Backus, JD**. Syndesmosis and Ankle Ligament Repair in the Setting of Ankle Fractures. American Orthopaedic Foot & Ankle Society 2026 Annual Meeting. Moderators: Kelly K. Hynes, MD, and Blake E. Moore, MD. Savannah, GA September 10-13, 2025
8. **Backus JD**. Moderator, Symposium 4: I Thought Sports Medicine Was Supposed to Be Fun! Napa, CA. January 24, 2026.
9. **Backus, JD**. 2026 Arthritis Foundation and American Orthopaedic Foot and Ankle Society Ankle Arthritis Think Tank. Course Chair. Napa, CA. January 22, 2026.

CONSULTING RELATIONSHIPS AND BOARD MEMBERSHIPS:

2024-Present Sparta Medical, Scientific Advisory Board

2024-2026 Orthopaedic Foot and Ankle Foundation
Board of Directors, Member at Large

2021-2023 American Orthopaedic Foot and Ankle Society
Board of Directors, Member at Large

2020-2022 Marrow Access Technologies Medical Consultant
2018-Present Medline Industries UNITE Foot and Ankle Implant Consultant

RESEARCH SUPPORT (role, title, duration, amount):

ACTIVE

a. Governmental

b. Non-governmental

2025-present Principle Investigator. The Steadman Clinic. Biomechanical Comparison of Normal versus an Augmented Brostrom using an open weave, non-resorbable material.
Medline Unite Grant. \$60,000

2024-2025 Principle Investigator. The Steadman Clinic. Biomechanical Comparison Between Nitinol Staple/Screw Fixation and Plate/Screw Fixation for First MTP Joint Arthrodesis.
Medline Unite Grant. \$45,000

2019-present Principle Investigator. Washington University in St. Louis. Investigated lateral ligament instability, postoperative ankle fracture management, Total ankle outcomes, and long-term outcomes of motion sparing procedures for hallux rigidus.
AOFAS Grant, \$20,000
Multi-center grant with the AOFAS and Arthritis Foundation \$200,000/2y.

PAST RESEARCH:

2002-2005 University of Illinois, Peter Jones, PhD, Champaign, IL
Laboratory Technician
Researched epigenetic etiologies of the neurological disorder Rett Syndrome through utilizing molecular genetic and transgenic techniques in Xenopus.

2005-2006 National Cancer Institute, Laboratory of Molecular Cell Biology, Carl Wu, PhD, Bethesda, MD
Cancer Research Training Award Fellowship
Researched specific epigenetic phenomena related to a histone variant's (H2A.Z) deposition and function in chromatin structure and gene expression. Some abnormalities in this particular phenomenon have been known to cause acute myelogenous and lymphoblastic leukemia.

2008-2010 Duke University Medical School, James A Nunley, MD & Steven A Olson, MD, Durham, NC – With Dr. Nunley – investigated operative outcomes of treatment for osteochondral lesion of the talus.
-With Dr. Olson, researched acute changes in articular cartilage following trauma through a novel porcine knee model.

2010-2012 Washington University in St. Louis, Jeremy McCormick, MD, Jay D Keener, MD, William M Ricci, MD, St. Louis, MO
- Started a multi-center prospective clinical outcomes study comparing syndesmosis fixation techniques.
- Investigated the effect medical co-morbidities and patient expectations have on outcomes following reverse total shoulder arthroplasty with Dr. Keener.

- Studied the effect that a novel radiographic protocol has on operative indications and treatment outcomes for clavicle fractures with Dr. Ricci.
- 2015-2022 The Steadman Philippon Research Institute, Thomas O. Clanton, MD, Vail
- Involved in a multi-center project investigating the effect of Syndesmosis fixation on patient outcomes.

CLINICAL TITLE AND RESPONSIBILITIES:

- 2019-2023 Assistant Professor, Department of Orthopaedic Surgery
Washington University School of Medicine, St. Louis, Missouri

BIBLIOGRAPHY:

SCIENTIFIC PRESENTATIONS – NATIONAL AND INTERNATIONAL

1. **Backus JD**, Furman B, DeFrate L, Pritchett P, Guilak F, Olson SA. Chondrocyte Viability Following Traumatic Joint Disruption in a Novel Closed Intraarticular Fracture Model of the Porcine Knee. Podium presentation for the 25th Orthopaedic Trauma Association Basic Science Annual Meeting. Oct 7-10, 2009. San Diego, CA.
2. **Backus JD**, Jo MJ, Merriman DJ, McAndrew C, Gardner MJ, Ricci WM. Upright Radiographs of the clavicle: how does patient positioning affect displacement. Podium presentation for the 29th Orthopaedic Trauma Association Annual Meeting. Oct 9-12, 2013. Phoenix, AZ. Nominated for Edwin Bovill “Best Paper” award.
3. **Backus JD**, Clanton TO, Whitlow SR, Williams BT, Dornan GJ, Saroki A, Turnbull TL, LaPrade, RF. Repair of Ankle Syndesmosis: A Biomechanical Analysis of Three Current Repair Techniques. Podium Presentation for the 2016 American Orthopaedic Society of Sports Medicine Annual Meeting. Colorado Springs, CO. July 7-10, 2016.
4. **Backus JD**. “Up Feet, Down Feet, Here Come Clown Feet: Advancements in Foot and Ankle Surgery. Washington University Mini-Medical School Curriculum. October 12, 2021.
5. Obey M, Schafer KA, Matheny LM, McAndrew C, Gardner MJ, Ricci WM, Clanton TO, **Backus JD**. Syndesmotomic Suture Button Fixation Results in Higher Tegner Activity Scale Scores when Compared to Screw Fixation: A Multicenter Investigation. Paper Session 3A: Trauma. Moderators: Eric M. Bluman, MD, PhD, and Stephen J. Pinney, MD. Podium presentation presented at the 2022 American Orthopaedic Foot & Ankle Society Annual Meeting. September 14-17, 2022, Quebec City, Canada.
6. Savage-Elliott, I, Rodriguez, R, **Backus, J**. Talus. Fractures: Now and Maybe Later? VuMedi. 15 October 2021. <https://www.vumedi.com/video/talus-fractures-now-and-maybe-later/>
7. Johnson JE, Phinney AR, Hastings, MK, Jeong HJ, Chen L, Thome AP, McCormick JJ, **Backus, JD**: What is the Gold Standard for Advanced Hallux Rigidus? Minimum 10-Year Follow-up Comparison of Interposition Arthroplasty and Arthrodesis Shows Similar Outcomes.
Roger A Mann Award Finalist 2024- nominated for Best Clinical Paper presented at the 2024 Annual Meeting of the American Orthopaedic Foot and Ankle Society. Presented September 13, 2024, Vancouver, BC.

8. Brady, AW, Kataoka, K, Sidrak, JP, Kreulen, CD, **Backus, JD**, Haytmanek, CT. Robotic Evaluation of Ankle Joint Stability Following Trans-Syndesmotic Fixation, AITFL Augmentation, and Deltoid Ligament Repair in the Setting of a Combined Deltoid and Syndesmosis Injury. AOSSM 2025 Annual Meeting, Nashville, TN, July 10-12, 2025.
9. Bopha, C, Cesar de Cesar Netto, Thome, A, **Backus, J**, Talusan, P, Anderson, D. Determining the Traumatic Origins of Ankle Osteoarthritis and Time to Joint Degeneration. Moderators: Michael C. Aynardi, MD, and Michael D. Johnson, MD. American Orthopaedic Foot & Ankle Society 2026 Annual Meeting. Savannah, GA September 10-13, 2025
10. Calibo, T, Romere, C, Hollenbeck, J, Sidrak, J, Haytmanek, CT, **Backus, J**. Biomechanical Evaluation of Nitinol vs. Plate Fixation in MTP Arthrodesis. Society of Military Orthopaedic Surgeons. 67th Annual Meeting. December 8-12, 2025. Vail, CO

POSTER PRESENTATIONS:

1. **Backus JD**, Furman BD, DeFrate L, Guilak F, Olson SA. Chondrocyte Viability Following Closed Intraarticular Fracture in a Novel Model of the Porcine Knee. Poster for the 2010 Annual Meeting for the American Academy of Orthopaedic Surgeons. March 10-13, 2010. New Orleans.
2. **Backus JD**, Furman BD, DeFrate L, Guilak F, Olson SA. Acute Response of Chondrocytes to Closed Intraarticular Fracture in a Novel Porcine Knee Model. Poster for the 56th Orthopaedic Research Society Annual Meeting, March 6-9, 2010, New Orleans, LA.
3. **Backus JD**, Jo MJ, Merriman DJ, McAndrew C, Gardner MJ, Ricci WM. Upright Radiographs of the clavicle: how does patient positioning affect displacement? Poster accepted for the Annual Meeting for the American Academy of Orthopaedic Surgeons. March 19-23, 2013. Chicago, IL. Featured in guided trauma poster tours by Drs. Tornetta and Templeman.
4. Schon JM, Williams BT, Venderley MB, Dornan GJ, **Backus JD**, Turnbull TL, LaPrade RF, Clanton TO. CT Analysis of Screw and Suture-Button Fixation for Syndesmosis Repair. Poster at the European Society of Sports Traumatology, Knee Surgery & Arthroscopy (ESSKA) 2016 Biennial Congress. Barcelona, Spain. 2016, May 4-7.
5. Schon JM, Williams BT, Venderley MB, Dornan GJ, **Backus JD**, Turnbull TL, LaPrade RF, Clanton TO. 3-D CT Analysis of Screw and Suture-Button Fixation for Syndesmosis Repair. Poster at the 2016 American Orthopaedic Society of Sports Medicine Annual Meeting. Colorado Springs, CO. July 7-10, 2016.
6. **Backus, JD**. Marchetti D, Slette E. Dahl, K, Turnbull TL, Clanton, TO. The Effect of Suture Caliber and Number of Core Strands on Repair of Acute Achilles Ruptures using a Mini-open Repair: A Biomechanics Study. E-poster 2016. American Orthopaedic Foot and Ankle Society Annual Meeting. Toronto, Canada. July 20-23, 2016.
7. Shlykov M, McCormick JJ, Klein SE, Johnson JE, **Backus J**, Lonergan T: Does the Canadian Orthopaedic Foot and Ankle Society Postoperative End-Stage Ankle Arthritis Classification System Correlate with Pre- and Postoperative PROMIS Scores for Total Ankle Arthroplasty? Poster presentation, American Orthopaedic Foot & Ankle Society 2020 Annual Meeting, San Antonio, TX. September 9-12, 2020.
8. Carney DD, Vyas PS, Hicks J, Johnson, JE, McCormick, JJ, Klein SE, **Backus JD**. Effect of Postoperative Immobilization Time on PROMIS Scores and Clinical Outcomes in Ankle Fracture Patients. Audio Poster

presentation, American Orthopaedic Foot & Ankle Society 2021 Annual Meeting, Charlotte, NC. September 22-25, 2021.

9. Cohen, B, Ward P, Carney DD, Elliott I, Fischer B, McCormick JJ, **Backus JD**. Mid-term Follow-Up of Patient Reported Outcomes and Reoperation Rates for Minimal-Resection Total Ankle Arthroplasty. Poster presentation. 2022 AOFAS Annual Meeting, Quebec City, Canada September 14-17, 2022.
10. Matheny LM, Clanton TO, **Backus JD**, Waldrop NE, Briggs KB, Horan MP, Robinson A. Development of the Foot and Ankle Activity Level Scale (FAALS) Using Item Response Theory for Injury Assessment in Clinical Application. American Public Health Association Annual Meeting. Boston, Massachusetts. November 8, 2022.
11. Vaidya, RS; Gilmore, PE; Spruiung, RW; Zhang, Q; Townsend, RR; Lohse, KR; **Backus, JD**, Lake, SP; Guilak, F; Yang, SY; Zellers, JA. Proteomics reveal region-specific and inter-individual variability in human Achilles tendons: A Pilot Study. Orthopaedic Research Society Annual Meeting, Long Beach, California. February 2-6. 2024.
12. Matheny LM, Clanton TC, **Backus JD**, Waldrop NE, Briggs KK, Horan MP, Robinson A. Development of the Foot and Ankle Activity Level Scale (FAALS): A Clinical Tool for Orthopaedic Surgeons. Annual Meeting of the American Orthopaedic Foot & Ankle Society (AOFAS). Vancouver, British Columbia, Canada. September 11-14, 2024.
13. Wang Y, Hinz M, Buchalter WH, Drumm AH, Eren EA, Haytmanek CT, Backus JD. Ankle Ligament Reconstruction-Return to Sport After Injury (ALR-RSI) Scale and Return to Sports After Ankle Ligament Reconstruction or Repair. Annual Meeting of the American Orthopaedic Foot & Ankle Society (AOFAS). Vancouver, British Columbia, Canada. September 11-14, 2024.
14. Justin F.M. Hollenbeck, Chase M. Romere, Jason P. Sidrak, Craig T. Haytmanek Jr, Jonathan D. Backus. "Biomechanical Comparison Between Nitinol Staple/screw Fixation And Plate/screw Fixation For First MTP Joint Arthrodesis," ORS 2025 Annual Meeting, Phoenix, AZ. February 7-11, 2025.
15. Chen, M, Vaidya, R, Havlioglu, N, McSpedon, S, McCormick, J, Thome, A, Backus, J, Zellers, J. Relationship between Tendon Degenerative Changes and Self-Reported Symptoms Pre- and Post-Surgery for Insertional Achilles Tendinopathy. APTA CSM Annual Meeting, Houston, TX. February 13-15, 2025.
16. Justin F.M. Hollenbeck, Chase M. Romere, Jason P. Sidrak, Craig T. Haytmanek Jr, Jonathan D. Backus. Biomechanical Comparison Between Nitinol Staple/Screw Fixation and Plate/Screw Fixation for First MTP Joint Arthrodesis. AOSSM 2025 Annual Meeting, Nashville, TN, July 10-12, 2025.
17. Romere, C, Sidrak, J, Hollenbeck, JF, Haymanek, CT, Backus, JD. " Biomechanical Comparison Between Fixation Techniques for First Metatarsophalangeal Joint Arthrodesis." AOFAS 2025 Annual Meeting, Savannah, GA. Sept 10-13, 2025.

SCIENTIFIC PRESENTATIONS – REGIONAL, LOCAL & STUDY GROUP MEETINGS:

PODIUM PRESENTATIONS:

1. **Backus JD**, Viens NA, Nunley JA. Operative Treatment Outcomes for Osteochondral Lesions of the Talus. Podium presentation accepted for the 41st Annual Meeting of the Eastern Orthopaedic Association. October 13-16, 2010. Naples, FL.
2. McAndrew CM, **Backus JD**, Putnam SM. Ankle Fractures: The good, the bad, and the ugly. Symposium II. Mid-America Orthopaedic Association Annual meeting 2022, San Antonio, TX. April 6-10, 2022.
3. **Backus, JD**. The Future of Ankle Arthritis and how the AF and AOFAS are shaping it. Colorado University Fellowship Reunion. Vail, CO April 10, 2026.

Meetings:

St. Louis Foot and Ankle Study Group - quarterly 2020-2023

REVIEW ARTICLES AND NON-PEER REVIEWED PUBLICATIONS:

1. Paxton ES, **Backus J**, Keener J, Brophy RH. Shoulder arthroscopy: basic principles of positioning, anesthesia, and portal anatomy. *J Am Acad Orthop Surg*. 2013 Jun; 21(6):332-342.
2. **Backus JD**, McCormick JJ. Tendon Transfers in the Treatment of the Adult Flatfoot. *Foot Ankle Clin*. 2014 Mar; 19(1):29-48.
3. **Backus JD**, Ocel DL. Ankle Arthrodesis for Talar Avascular Necrosis and Arthrodesis Nonunion. *Foot Ankle Clin*. 2019 Mar; 24(1):131-142.
4. **Backus JD** and McCormick JJ. Achilles Tendon Disorders. *American Academy of Orthopaedic Surgeons Resident Curriculum*. Foot and Ankle Section. Chapter 4. Ed: Haddad S and Thordarson D. 2021- Online only.
5. Obey MR, Johnson JE, **Backus JD**. Managing Complications of Foot and Ankle Surgery: Reconstruction of the Progressive Collapsing Foot Deformity. *Foot Ankle Clin*. 2022 Jun;27(2):303-325.
6. **Backus JD**, Clanton TO. Could MIS Lateral Ligament Reconstruction Be the Future? *Foot Ankle Int*. 2025 Apr;46(4):386-388. doi: 10.1177/10711007251323894. Epub 2025 Apr 1. PMID: 40167491.

PEER-REVIEWED MANUSCRIPTS:

1. Luk E, Vu ND, Patteson K, Mizuguchi G, Wu WH, Ranjan A, **Backus J**, Sen S, Lewis M, Bai Y, Wu C. Chz1, a nuclear chaperone for histone H2AZ. *Mol Cell*. 2007 Feb; 25(3):357-368.
2. **Backus JD**, Furman BD, Swimmer T, Kent CL, McNulty AL, Defrate LE, Guilak F, Olson SA. Cartilage viability and catabolism in the intact porcine knee following transarticular impact loading with and without articular fracture. *J Orthop Res*. 2011 Apr; 29(4):501-510.
3. **Backus JD**, Viens NA, Nunley JA. Arthroscopic treatment of osteochondral lesions of the talus: microfracture and drilling versus debridement. *J Surg Orthop Adv*. 2012 Winter; 21(4):218-222.

4. **Backus JD**, Merriman DJ, McAndrew CM, Gardner MJ, Ricci WM. Upright versus Supine Radiographs of Clavicle Fractures: Does Positioning Matter? *J Orthop Trauma*. 2014 Nov; 28(11):636-641. [Featured AAOS Headline News 11/5/14].
5. **Backus, J**. In Response: "Upright vs. Supine Radiographs of Clavicle Fractures: Does Positioning Matter?", *J Orthop Trauma*. 2015 Sep; 29(9):e348.
6. Liechti, DJ, **Backus, JD**, Clanton, TO. Joint Salvage Procedures for Failed First Metatarsal Phalangeal Joint Cheilectomy. *Tech. in Foot & Ankle Surgery*, 2016 Jul; 15(3):113-118.
7. Clanton TO, Williams BT, **Backus JD**, Dornan, GJ, Liechti, DJ, Whitlow SR, Saroki AJ, Turnbull TL, LaPrade RF. A Biomechanical Analysis of the Individual Ligament Contributions to Syndesmotic Stability. *Foot Ankle Intl*. 2017 Jan; 38(1):66-75.
8. Schon JM, Williams BT, Venderley MB, Dornan GJ, **Backus JD**, Turnbull TL, LaPrade RF, Clanton TO. A 3-D CT Analysis of Screw and Suture-Button Fixation of the Syndesmosis. *Foot Ankle Intl*. 2017 Feb; 38(2):208-214.
9. Schon JM, Mikula JD, **Backus JD**, Venderley MB, Dornan GJ, LaPrade RF, Clanton TO. 3D Model Analysis of Ankle Flexion on Anatomic Reduction of a Syndesmotic Injury. *Foot Ankle Int*. 2017 Apr;38(4):436-442. doi: 10.1177/1071100716681605. Epub 2016 Dec 7. PMID: 27920331.
10. Clanton TO, Whitlow SR, Williams BT, Liechti DJ, **Backus JD**, Dornan GJ, Saroki, AJ, Turnbull, LaPrade RF. A Biomechanical Comparison of 3 Current Ankle Syndesmosis Repair Techniques. *Foot Ankle Intl*. 2017 Feb; 38(2):200-207.
11. **Backus JD**, Marchetti DC, Slette EL, Dahl KD, Turnbull TL, Clanton TO. Effect of Suture Caliber and Number of Core Strands on Repair of Acute Achilles Ruptures: A Biomechanical Study. *Foot Ankle Intl*. 2017 May; 38(5):564-570.
12. Liechti DJ, Moatshe G, **Backus JD**, Marhetti DC, Clanton TO. A Percutaneous Knotless Technique for Acute Achilles Tendon Ruptures. *Arthrosc Tech*. 2018 Feb; 7(2):e171-e178.
13. Shlykov MA, Savage-Elliott I, Lonergan TM, Klein SE, **Backus JD**, Johnson JE, McCormick JJ. Does the Canadian Orthopaedic Foot and Ankle Society Postoperative COFAS End-Stage Ankle Arthritis Classification System Correlate with Pre- and Postoperative PROMIS Scores for Total Ankle Arthroplasty? *Foot Ankle Orthop*. Jan 2022; 7(1):24730114221084635.
14. Schafer KA, Cusworth BM, Kazarian GS, **Backus JD**, Klein SE, Johnson JE, McCormick JJ. Outcomes Following Repeat Ankle Arthroscopy and Microfracture for Osteochondral Lesions of the Talus. *Foot Ankle Spec*. Mar 2022 (online ahead of print). *Foot Ankle Spec*. 2024 Jun;17(3):216-223.
15. Schafer KA, Baldini T, Hamati M, **Backus JD**, Hunt KJ, McCormick JJ. Two Orthogonal Nitinol Staples and Combined Nitinol Staple-Screw Constructs for a First Metatarsophalangeal Joint Arthrodesis: A Biomechanical Cadaver Study. *Foot Ankle Int*. 2022 Nov;43(11):1493-1500.
16. Carney DD, Vyas PS, Hicks J, Johnson JE, McCormick JJ, Klein SE, **Backus JD**. Effects of Postoperative Immobilization Time on PROMIS Scores and Clinical Outcomes in Ankle Fracture Patients. *Foot Ankle Orthop*. 2023 Jan 29;8(1):24730114221151080. Ecollection

17. Obey MR, Schafer K, Matheny LM, McAndrew CM, Gardner MJ, Ricci WM, Clanton TO, **Backus JD**. Syndesmotomic Suture Button Fixation Results in Higher Tegner Activity Scale Scores When Compared to Screw Fixation: A Multicenter Investigation. *Foot Ankle Spec*. 2024 Jun;17(3):270-276. doi: 10.1177/19386400231174829. Epub 2023 May 26. PMID: 37232097.
18. Wang Y, Hinz M, Buchalter WH, Drumm AH, Eren E, Thomas Haytmanek C, **Backus JD**. Ankle ligament reconstruction-return to sport after injury scale and return to sports after ankle ligament reconstruction or repair-A systematic review. *J Exp Orthop*. 2024 Jul 2;11(3):e12077. doi: 10.1002/jeo2.12077. PMID: 38957230;
19. Vaidya RS, Gilmore PE, Zhang Q, Lohse KR, Havlioglu N, Sprung RW, Townsend RR, Backus J, McCormick J, Thome A, Lake SP, Tang SY, Guilak F, Zellers JA. How Does Tendon Region, Donor, and the Presence of Disease Affect Protein Composition of the Achilles Tendon? *Clin Orthop Relat Res*. 2025 Jun 13;483(9):1762-1780. doi: 10.1097/CORR.0000000000003578. PMID: 40522651; PMCID: PMC12373045.
20. Matheny, Lauren; Clanton, Thomas; Backus, Jonathon; Waldrop, Norman; Briggs, Karen; Horan, Marilee; Robinson, Anastasia. "Development of the Foot and Ankle Activity Level Scale (FAALS) Instrument for Orthopaedic Clinical Application." *Foot Ankle Int*. 2025 Jan 22:10711007241311907.
21. Romere CM, Sidrak JP, Hollenbeck JFM, Schafer KA, Haytmanek CT Jr, Backus JD. Biomechanical Comparison Between Fixation Techniques for First-Metatarsophalangeal Joint Arthrodesis. *Foot Ankle Int*. 2025 Aug;46(8):895-902. doi: 10.1177/10711007251341886. Epub 2025 Jun 28. PMID: 40580156.
22. Johnson JE, Phinney AR, Hastings MK, Jeong HJ, Chen L, Thome AP, McCormick JJ, **Backus JD**. Fifteen-Year Follow-up of the Modified Oblique Keller Capsular Interposition Arthroplasty Compared to Arthrodesis for Treatment of Advanced First Metatarsophalangeal Joint Arthritis. *Foot Ankle Orthop*. 2025 Mar 20;10(1):24730114251322766. doi: 10.1177/24730114251322766. PMID: 40114855; PMCID: PMC11924083.

23. Add techniques paper

BOOK CHAPTERS:

1. Bogunovic L, **Backus J**, Wright RW. Stress Fractures of the Ankle. *Stress Fractures in Athletes: Diagnosis and Management*. Ed. Kaeding C, Miller T., Springer, 2014; 12:161-169.
2. Waldrop, N, Haytmanek, T, **Backus, J**, Clanton TO. Ankle Sprains, Ankle Instability and Syndesmosis Injuries. *Baxter's The Foot and Ankle in Sports*, 3rd. Ed. Porter D, Schon L., Elsevier, 2021.
3. Hicks, JJ, Vyas, P, **Backus, J**, Bogunovic, L. Stress Fractures of the Midfoot and Forefoot. *Stress Fracture in Athletes*, 2nd Ed. Ed Miller TL, Kaeding CC., Springer, Cham. 2020: Chapter 19:259-278.
https://doi.org/10.1007/978-3-030-46919-1_19.
4. Johnson JE, **Backus, JD**, Stivers, JJ: Plantarflexion Opening Wedge Medial Cuneiform Osteotomy. In Easley ME, Wiesel SW (eds.) *Operative Techniques in Foot and Ankle Surgery*. Philadelphia, PA: Wolters Kluwer/Lippincott, Williams & Wilkins; 2020: Section 8, Chapter 40.

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