

# ALEXANDER M. BROWN

August 2020

## CONTACT INFORMATION

Nashville Sports Medicine & Orthopaedic Center  
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## EDUCATION

- 2010 – 2014 M.D., **University of Louisville**, Kentucky
- 2008 – 2009 Graduate Diploma of Arts, **University of Melbourne**, Australia  
(History and Philosophy of Science)
- 2004 – 2008 B.S., *magna cum laude*, **Centre College**, Danville, Kentucky  
Major: Biochemistry and Molecular Biology

## RESIDENCY/FELLOWSHIP TRAINING

- 2019 – 2020 **American Sports Medicine Institute**, St. Vincent's Hospital, Birmingham, AL  
Sports Medicine Orthopaedic Surgery Fellow  
Program Directors: Jeffrey R. Dugas MD, E. Lyle Cain MD, & Benton A. Emblom MD
- 2014 – 2019 **University of Rochester Medical Center**, Rochester, NY  
Orthopaedic Surgery Resident  
Program Director: John T. Gorczyca, MD

## LICENSURE AND BOARD CERTIFICATION

- 2020 – present Tennessee Medical License #61075  
2019 – present Alabama Medical License #38255  
2019 American Board of Orthopaedic Surgery  
Part 1 Passed: July 2019, Part 2 Eligible: July 2021

## MEMBERSHIPS IN NATIONAL ACADEMIC PROFESSIONAL ORGANIZATIONS

- 2017 – present American Orthopaedic Society for Sports Medicine  
2014 – present American Orthopaedic Association  
2014 – present American Academy of Orthopaedic Surgery  
2010 – present American Medical Association

### HONORS AND AWARDS

- 2019 **J. Edward Puzas, Ph.D. Clinical Translational Research Award** – in recognition of the most outstanding resident clinical science research project
- 2018 **AOA Resident Leadership Forum** – outstanding PGY4 resident selected by program director
- 2014-2019 **Strong Star** – 8-time recipient of Strong Memorial Hospital recognition for excellent patient care
- 2009 **Rotary Ambassadorial Scholarship** – awarded full tuition and living stipend for an academic year of study at the University of Melbourne, Australia
- 2008 **Kentucky Colonel** – honor bestowed by the Governor of Kentucky in recognition of noteworthy accomplishments and outstanding service to a community, state or the nation
- 2008 **Phi Beta Kappa Honor Society**
- 2008 **Ormond Beatty Alumni Prize** – awarded to a Centre College senior with a distinguished academic record
- 2007 **Omicron Delta Kappa National Leadership Honor Society**
- 2007 **John Marshall Harlan Award** – nominated by faculty and awarded to the Centre College junior who most conspicuously displays the quality of leadership on campus
- 2006 **Mitchell Young Chamberlain Prize** – awarded to the sophomore varsity letterman with the highest academic standing for the first two years of Centre College study
- 2004 **President's Scholarship** – full four-year tuition to attend Centre College
- 2004 **Eagle Scout**

### COURSES/CERTIFICATIONS

- 2019 **Stryker Mako Total Hip and Knee Certification** – Birmingham, AL
- 2019 **AOSSM Sports Medicine Fellows Course** – Chicago, IL
- 2018 **AOA; C. McCollister Evarts Resident Leadership Forum** – Boston, MA
- 2018 **AO Advanced Principle in Fracture Management** – San Diego, CA
- 2017 **AO Basic Principles in Fracture Management** – Charlotte, NC
- 2016 **American Association of Hip and Knee Surgeons Resident Course** – Dallas, Texas
- 2015 **Residents as Teachers** – University of Rochester Graduate Medicine Program

### ATHLETIC TEAM COVERAGE

- 2019 – 2020 **Troy University, Troy AL**  
Assistant Football Team Physician with Dr. Jeffrey R. Dugas
- 2019 – 2020 **Shades Valley High School, Birmingham, AL**  
Football Team Physician
- 2019 – 2020 **Birmingham Barons, Minor League Baseball, Birmingham AL**  
Assisted with game coverage and training room evaluation
- 2018 – 2019 **Nazareth College Men's and Women's Hockey Team, Rochester, NY**  
Provided in-game injury evaluations for local college hockey athletes
- 2015 – 2019 **Rochester, NY High School Football**  
Provided in-game injury evaluations for local high school football athletes

**RESEARCH ACTIVITIES**

- 2019 **Clinical Outcomes of Bankart Repair with Knotless Anchors**  
Retrospective comparative cohort study with prospectively collected outcome data evaluating knotless anchors versus knotted anchors in patients treated with primary anterior labral repair for shoulder dislocation/instability.  
*Primary Investigators:* E. Lyle Cain MD & Jeffrey Dugas MD, American Sports Medicine Institute
- 2017 **Arthroscopic Boney Bankart Repair Techniques**  
Biomechanical studies investigating the strength of single and double row repairs of boney Bankart lesions under normal physiologic joint conditions as well as cartilage damage incurred on the humeral head from overlying suture.  
*Primary Investigator:* Ilya Voloshin, M.D., UR Department of Orthopaedics and Rehabilitation
- Mid-Term Radiographic and Clinical Outcomes for Metal-Backed Glenoid Components in Total Shoulder Arthroplasty**  
Retrospective cohort study examining the failure rate of second-generation Zimmer Trabecular Metal glenoid components in patients with TSA as well as prospectively collected patient reported outcome measures.  
*Primary Investigator:* Ilya Voloshin, M.D., UR Department of Orthopaedics and Rehabilitation
- 2016 **Effect of Pre-Operative Direct Oral Anticoagulants on Time to Operation of Geriatric Hip Fractures**  
Retrospective case-control study comparing differences in time to surgery, peri-operative complications, bleeding events, and 30-day mortality between groups of hip fracture patients on direct oral anticoagulation at time of fracture with a control group.  
*Primary Investigator:* Kyle Judd, M.D., UR Department of Orthopaedics and Rehabilitation
- 2013 **Outcomes for Atypical Subtrochanteric Femur Fractures**  
Retrospective case-control study with prospective SF-36 outcome measures to determine the epidemiology and clinical outcomes after surgical treatment of atypical subtrochanteric femur fractures secondary to bisphosphonate therapy compared to a high-energy femur fracture group.  
*Primary Investigator:* Madhusudhan Yakkanti, M.D., UofL Department of Orthopaedic Surgery
- 2011 **UofL Summer Research Scholars Program**  
Factors which influence medical students to choose a residency: focus on general surgery.  
*Advisor:* Gerald Larson, M.D., UofL Department of Surgery
- 2006 **Centre College Summer Undergraduate Research**  
Developmental neurobiology: neurochemical characterization of interneurons in rat cerebral cortex.  
*Primary Investigator:* Stephen Asmus, Ph.D., Professor of Biology and Biochemistry & Molecular Biology of Centre College

## SCHOLARSHIP

### *Peer Reviewed Journal Articles:*

Chen RE, **Brown AM**, Greenstein AS, Mannava SP, Voloshin I. Radiographic and Clinical Outcomes of Second Generation Trabecular Metal™ Glenoid Components in Total Shoulder Arthroplasty. *Shoulder & Elbow*. E-published March 2020.

Asmus SE, Anderson EK, Ball MK, Barnes BA, Bohnen AM, **Brown AM** et al. Neurochemical characterization of tyrosine hydroxylase-immunoreactive interneurons in the developing rat cerebral cortex. *Brain Research*. 2008 Nov; 1222(1): 95-105.

**Brown A**, Zmich Z, Roberts A, Lipof J, Judd K. Influence of Direct Oral Anticoagulant Use on Time to Surgery and Clinical Outcomes in Geriatric Hip Fractures. Department of Orthopaedic Surgery, University of Rochester, NY. [*Submitted to OTA International*].

Greenstein A, Knapp E, **Brown A**, Roberts A, Chen R, Voloshin I. A Biomechanical Evaluation of Single- vs Double-Row Repair Techniques on Bony Bankart Stability. Department of Orthopaedic Surgery, University of Rochester, NY. [*Submitted of Journal of Arthroscopy*].

### *Book Chapters:*

Gerhart, DC, **Brown, AM**, Cain, EL. (2020). Valgus Extension Overload. In Joshua S. Dines, Christopher L. Camp, and David W. Altchek (Eds.), *Elbow Ulnar Collateral Ligament Injury: A Guide to Diagnosis and Treatment* (2<sup>nd</sup> Ed.) Springer.

### *Peer Reviewed Videos:*

**Brown A**, Soles G, Gorczyca J, Humphrey C, Judd K, Ketz J, and Nahom Teclé. External Fixation Across Pilon Fractures. *OTA Video Library*. 2019. <https://otaonline.org/video-library/45036/procedures-and-techniques/multimedia/17896825/external-fixation-across-pilon-fractures>

### *Oral Presentations:*

**Brown, A.** Clay, B., Siddiq, A., Emblom, B., Dugas, J., Cain, E., Fleisig, G. (July 2020). *Clinical Outcomes of Primary Arthroscopic Bankart Repair with Knotless versus Knotted Anchors*. ASMI Research Symposium, Birmingham, AL.

**Brown, A.**, Zmich, Z, Roberts, A, Lipof, J, Judd, K. (May 2019). *Influence of Direct Oral Anticoagulant Use on Time to Surgery in Geriatric Hip Fractures*. R. Plato Schwartz Lectureship; Rochester, NY.

Voloshin, I, Greenstein, A., **Brown, A.**, Roberts, A., Chen, R., Knapp, E. Pranay, R. (May 2019). *Cartilage Loss Due to Overlying Suture in Surgical Treatment of Acute Bony Bankart Lesions*. Arthroscopy Association of North America Meeting; Orlando, Florida.

Voloshin, I, Greenstein, A., **Brown, A.**, Roberts, A., Chen, R., Knapp, E. Pranay, R. (May 2019). *Biomechanical Comparison of Single- And Double-Row Repair Techniques For Acute Bony Bankart Lesions*. Arthroscopy Association of North America Meeting; Orlando, Florida.

**Brown, A.**, McCalla, D, Roberts, A, Lipof, J, Judd, K. (March 2018). *Effect of Pre-Operative Rivaroxaban Use on Timing of Operative Treatment for Patients 65 Years and Older with Proximal Femur Fractures*. AAOS Annual Meeting; New Orleans, LA.

McCalla, D, Roberts, A., **Brown, A.**, Lipof, J, Judd, K. (October 2016). *Effect of Pre-operative Rivaroxaban Use on the Treatment of Femur Fractures for Patients 65 years and Older*. International Geriatric Fracture Society Annual Meeting; National Harbor, MD.

Spanyer, J.M., **Brown, A.M.**, Voor, M.J., Yakkanti, M.R. (June 2013). *Health Related Quality of Life Outcomes after Surgical Treatment of Bisphosphonate-Associated Femur Fractures*. UofL Department of Orthopaedic Surgery Fischer-Owen Annual Research Day; Louisville, KY.

Spanyer, J.M., **Brown, A.M.**, Voor, M.J., Yakkanti, M.R. (September 2013). *Health Related Quality of Life Outcomes after Surgical Treatment of Bisphosphonate-Associated Femur Fractures*. Kentucky Orthopaedic Society Annual Fall Meeting; Louisville, KY.

*Poster Presentations:*

Chen RE, **Brown AM**, Greenstein AS, Mannava S, Voloshin I. (June 2020). Radiographic and Clinical Outcomes of Second Generation Trabecular Metal™ Glenoid Components in Total Shoulder Arthroplasty: Minimum 5-Year Follow-up. E-Poster at 2020 AOA Annual Leadership Meeting, Baltimore, MD.

Chen RE, **Brown AM**, Greenstein AS, Mannava S, Voloshin I. (September 2019). Minimum 5-Year Outcomes of Second Generation Trabecular Metal™ Glenoid Components. 9<sup>th</sup> Annual CMSR Symposium, Rochester, NY.

Greenstein, A., **Brown, A.**, Roberts, A., Chen, R., Knapp, E., Pranay, R., Voloshin, I. (October 2018). *Cartilage Loss Due to Overlying Suture in Surgical Treatment of Acute Bony Bankart Lesions*. American Shoulder and Elbow Surgeons Meeting; Chicago, Illinois.

Greenstein, A., **Brown, A.**, Roberts, A., Chen, R., Knapp, E., Pranay, R., Voloshin, I. (October 2018). *Biomechanical Comparison of Single- And Double-Row Repair Techniques for Acute Bony Bankart Lesions*. American Shoulder and Elbow Surgeons Meeting; Chicago, Illinois.

Greenstein, A., **Brown, A.**, Roberts, A., Chen, R., Knapp, E., Pranay, R., Voloshin, I. (October 2018). *Cartilage Loss Due to Overlying Suture in Surgical Treatment of Acute Bony Bankart Lesions*. Eastern Orthopaedic Association; Amelia Island, Florida.

Greenstein, A., **Brown, A.**, Roberts, A., Chen, R., Knapp, E., Pranay, R., Voloshin, I. (September 2018). *Biomechanical Comparison of Single- And Double-Row Repair Techniques for Acute Bony Bankart Lesions*. European Society for Surgery of the Shoulder and Elbow; Geneva, Switzerland.

**Brown, A.**, McCalla, D., Roberts, A., Lipof, J., Judd, K. (October 2017). *Effect of Pre-operative Rivaroxaban Use on the Treatment of Femur Fractures for Patients 65 years and Older*. Poster presented at Orthopaedic Trauma Association Annual Meeting; Vancouver, BC, Canada.

**Brown, A.**, McCalla, D., Roberts, A., Lipof, J., Judd, K. (July 2017). *Effect of Pre-operative Rivaroxaban Use on the Treatment of Femur Fractures for Patients 65 years and Older*. Poster presented at ORS Upstate New York and Northeast Regional Symposium; Rochester, NY.

**Brown, A.M.**, Spanyer, J.M., Voor, M.J., Yakkanti, M.R. (September 2013). *Health Related Quality of Life Outcomes after Surgical Treatment of Bisphosphonate-Associated Femur Fractures*. Poster presented at: Research!Louisville Symposium; Louisville, KY.

**Brown, A.M.**, Larson, G.M., Johnson, K. (October 2011). *Career Choices by Medical Students: Why Students Do and Do Not Choose General Surgery*. Poster presented at: Research!Louisville Symposium; Louisville, KY.

*Magazine Article:*

**Brown, A.** (December 2014). Hard Battles. *Louisville Medicine: Greater Louisville Medical Society*, Vol 62, No. 7, pp. 10-11. <https://view.joomag.com/louisville-medicine-volume-62-issue-7/0080875001417468358?short>

**ACADEMIC PRESENTATIONS**

2019 – present **American Sports Medicine Institute**

- Tendon Anatomy and Response to Injury
- Meniscal Injury and Repair
- Shoulder and Elbow Arthroplasty

2014 – present **University of Rochester Orthopaedic Conferences**

- Osteomyelitis
- Femoral Shaft Fractures
- Shoulder Arthroplasty
- Slipped Capital Femoral Epiphysis
- Distal Humerus Fractures
- Forearm and Elbow Surgical Approaches
- Proximal Humerus Fractures
- Ulnar Collateral Ligament/Throwing Elbow Injuries

**ADMINISTRATIVE LEADERSHIP AND EXTRACURRICULAR ACTIVITIES**

***UNIVERSITY OF ROCHESTER ORTHOPAEDIC RESIDENCY***

2018 – 2019 Sports Coverage Chief Resident

2015 – 2016 Junior Resident Call Scheduler

***UNIVERSITY OF LOUISVILLE SCHOOL OF MEDICINE***

2011 – 2012 President, UofL AMA – Medical Student Section Chapter

2011 – 2012 Member, Educational Efficiency Committee

2011 Course Representative, History of Medicine (April - May)

2010 – 2011 Class Senator, Student Government

***CENTRE COLLEGE***

2006 – 2008 Student Judiciary, Chair

2007 – 2008 Swim Team Captain (4-year letterman)

2006 – 2008 Student Government Senator

2007 – 2008 Resident Director

Alexander M. Brown, M.D.

**FOREIGN VOLUNTEER WORK/OVERSEAS EXPERIENCE**

- 2011            **Medical Mission Member**, Tena, Ecuador (May 22 – June 5, 2011)
- 2009            **Rotary Ambassadorial Scholar**, Melbourne, Australia
- Awarded \$23,000 to serve as an ambassador of goodwill to the city of Melbourne, Australia for one year.
  - Spoke at 10 different local Rotary clubs about my home country and attended the University of Melbourne.
- 2006            **Centre-in-Strasbourg, France Study Abroad**, Centre College
- 2006            **New Zealand Study Abroad**, Centre College

**HOBBIES & INTERESTS**

Travel, piano, fly-fishing, hiking/camping, skiing, and spending time with my wife and two daughters