

# Jacob Babu M.D, M.H.A

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## Training & Education

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### Spine Surgery Fellowship

Johns Hopkins University  
Fellowship Director: Dr. Khaled Kebaish

Baltimore, MD  
August 2020 – July 2021

### Orthopedic Trauma Surgery Fellowship

Warren Alpert Medical School of Brown University  
Fellowship Director: Dr. Roman Hayda

Providence, RI  
July 2019 – July 2020

### Orthopedic Surgery Residency

Warren Alpert Medical School of Brown University  
Chairman: Dr. Edward Akelman (2016-Present)  
Previous Chairman: Dr. Michael Ehrlich (2014-2016)

Providence, RI  
July 2014 – June 2019

### General Surgery Internship

Warren Alpert Medical School of Brown University

Providence, RI  
July 2014 – June 2015

### Doctor of Medicine

Chicago Medical School  
G.P.A: 3.96/4.0  
*Alpha Omega Alpha, Highest Clinical G.P.A, Top 2% in Class*

North Chicago, IL  
August 2010 - June 2014

### Masters in Healthcare Administration and Management

Rosalind Franklin University of Medicine & Science  
G.P.A: 3.95/4.0

North Chicago, IL  
August 2009 - May 2011

### Masters in Biomedical Sciences

Rosalind Franklin University of Medicine & Science

North Chicago, IL  
August 2009 - May 2010

### Bachelor of Science, General Engineering

University of Illinois Urbana-Champaign

Champaign, IL  
August 2005 - May 2009

## Academic Appointment:

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### Assistant Professor in Orthopaedic Surgery

Faculty Specialty Advisor, Orthopaedics

Chicago Medical School  
August 2021 - Present

## Clinical Appointments:

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### Illinois Bone and Joint Institute

Orthopedic Spine and Trauma Surgery

Libertyville, IL  
September 2021 – Present

### Northwestern Memorial Hospital – Lake Forest

Department of Orthopedics – Spine & Trauma

Lake Forest, IL  
September 2021 – Present

### Advocate Condell Hospital

Department of Orthopedics – Spine & Trauma

Libertyville, IL  
September 2021 – Present

**Northshore University Health System**

Department of Spine Surgery

Skokie, IL

September 2021 - Present

**Certification and Licensure**

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American Board of Orthopedic Surgeons Part 2: Pass	October 2023
American Board of Orthopedic Surgeons Part 1: Pass <i>90<sup>th</sup> percentile</i>	July 2019
Illinois Physician License	March 2021 - Present
Maryland Physician License	April 2020 - Present
Rhode Island Physician License	June 2019 – July 2020
BLS/ACLS/ATLS	June 2014 - Present
USMLE Step 1: Pass	June 2012
USMLE Step 2 CK: Pass	November 2013
USMLE Step 2 CS: Pass	February 2014
USMLE Step 3: Pass	November 2014

**Awards and Scholarships**

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<b>Mark Palumbo/Phil Lucas Spine Surgery Achievement Award</b> Brown University, Providence, RI	July 2020
<b>Michael Ehrlich Travelling Fellowship Scholarship</b> Addis Ababa, Ethiopia	November 2019
<b>Rhode Island Orthopedic Society Award</b> First Place, Top Research Project	June 2019
<b>Brown University Award of Excellence in Geriatrics</b> Top Resident Project in Geriatric Medicine	June 2019
<b>American Orthopaedic Association Top Poster Award</b> Top Poster in Sports Medicine	June 2019
<b>Carroll Silver Travelling Fellowship Scholarship</b>	July 2018
<b>New England Orthopedic Society Resident Research Award</b> Top Original Publication	May 2018
<b>Health Volunteers Overseas Scholarship</b> Kumasi, Ghana	February 2018
<b>Highest Clinical GPA Award</b> Chicago Medical School	May 2014
<b>Alpha Omega Alpha Honor Society</b>	December 2013
<b>Chicago Medical School Health Service Travel Award</b> Rubirizi, Uganda	March 2012
<b>Chicago Medical School Excellent Clinical Standing Scholarship</b>	August 2010
<b>James F. Lincoln Arc Welding Foundation National Award</b>	June 2009
<b>Electrical and Computer Engineering Department Award</b> University of Illinois Urbana-Champaign	December 2007

## Peer-Reviewed Publications

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- Amlani L, Xu A, Suresh K, Oni J, **Babu JM**. *Outcomes of the Management of Orthopaedic Presentations by Traditional Bonesetting in Sub-Saharan Africa: A Literature Review*. July 2024. Pending Publication
- Harris A, **Babu JM**, Wang J, Yoon T, Jain A. *Structural Allograft Versus Mechanical Interbody Devices Augmented with Osteobiologics in Anterior Cervical Discectomy and Fusion: A Systematic Review*. Global Spine Journal. April 2023. Accepted for Publication.
- Babu JM**, Wang KY, Jami M, Durand WM, Neuman BJ, Kebaish KM. *Sarcopenia as a Risk Factor for Complications Following Pedicle Subtraction Osteotomy*. Clinical Spine Surgery. January 2023. Accepted for Publication
- Lyons S, Xu AL, Durand WM, Patel S, Oni JK and **Babu JM**. *The Impact of the COVID-19 Pandemic on the Functionality of International Surgical Volunteer Organizations*. Front. Surg. 2022 April; 9:868023. doi: 10.3389/fsurg.2022.868023
- Jami M, Xu AL, Zhang B, Durand WM, Musharbash FN, **Babu JM**. *Applying to Fellowship During a Pandemic: Lessons Learned From the 2020-2021 Orthopaedic Spine Fellowship Application Cycle*. Cureus. 2022;14(2). doi:[10.7759/cureus.22630](https://doi.org/10.7759/cureus.22630)
- Sobel AD, **Babu JM**, Blood TD, Paxton ES. *Biomechanical Comparison of Dual and Posterior Locking Plates in an Ex Vivo Comminuted Olecranon Fracture Model*. J Hand Surg Am. 2022 Jan 11:S0363-5023(21)00479-2. doi: 10.1016/j.jhsa.2021.07.029. Epub ahead of print. PMID: 35031124.
- Xu AL, Mo KC, **Babu JM**, Neuman BJ. *Epidural Hematoma Producing Neural Compression After Bilateral Rod Fractures in Failed Long-Construct Fusion: A Case Report*. JBJS Case Connector. 2021; in press.
- Durand W, **Babu JM**, Hamilton K, Passias P, Kim HJ, Protopsaltis T, Laflage V, Laflage R, Smith J, Shaffrey C, Gupta M, Kelly MP, Klineberg E, Schwab F, Gum J, Mundis G, Eastlack R, Kebaish K, Bess S, Ames C, Hart R, Daniels A, ISSG. *Adult Spinal Deformity Surgery is Associated with Increased Productivity and Decreased Absenteeism from Work and School*. Spine. 2021 Oct 25. doi: 10.1097/BRS.0000000000004271
- Miclau T, Born C, **Babu J**. et al. *International Orthopaedic Volunteer Opportunities in Low-and Middle-Income Countries*. Journal of Bone and Joint Surgery. December 2021. doi: 10.2106/JBJS.21.00948
- Wang KY, **Babu J**, Zhang B, Jami M, Musharbash FN, LaPorte D. *The Impact of the COVID-19 Pandemic on the Orthopaedic Surgery Residency Application Process: What Can We Learn?* J Am Acad Orthop Surg Glob Res Rev. Aug 2021. Accepted - In Press.
- Xu AL, Petrusky O, **Babu J**, Wang KY, Durand WM, Gross JM, Neuman BJ. *Surgically Managed Malakoplakia of the Spine: A Case Report*. JBJS Case Connector. 2021; in press.
- Wang KY, Ikwuezunma I, Puvanesarajah V, **Babu JM**, Margalit A, Raad M, Jain A. *Using Predictive Modeling and Supervised Machine Learning to Identify Patients at Risk for Venous Thromboembolism following Posterior Lumbar Fusion*. Global Spine J. 2021 May. Epub ahead of print.
- Patel S, McDonald C, Li N, **Babu JM**, Daniels A, Rihn J. *Understanding Health Economics in Spine Surgery*. JBJS Reviews. 2021 Mar 5;9(3). doi: 10.2106/JBJS.RVW.20.00124
- O'donnell RO, Dove J, **Babu JM**, Blood T, Hayda R. *Partial Delaminated Quadriceps Tendon Rupture: A Case Report*. JBJS Case Connect: Accepted 2021 March
- Babu JM**, Cruz JR, Patel SA, Born CT, Akelman EA. *Global Volunteering in Orthopedics: Availability and Implementation Considerations*. JAAOS. 2021 Feb; 29(4):139-147. doi: 10.5435/JAAOS-D-20-00740  
Featured Article
- Patel, S. A., Goyal, D. K. C., Reid, D., Patel, R., **Babu, JM.**, Fereydonyan, N., & Anderson, D. G. *Transpsoas Lumbar Interbody Fusion Without Psoas Stimulated Electromyography*. Clinical Spine Surgery. 2021 Feb 1;34(1):E57-63. doi.org: 10.1097/BSD.0000000000001021

- Patel S, Li N, Yang D, Reid D, Disilvestro K, **Babu JM**, Kuris E, Barrett T, Daniels A. *Patients Who Undergo Primary Lumbar Spine Fusion after Recent but Not Remote Total Hip Arthroplasty are at Increased Risk for Complications, Revision Surgery, and Prolonged Opioid-use*. *World Neurosurg*. 2020 Dec 144 :e523-e532. doi: 10.1016/j.wneu.2020.08.210.
- Johnson J, **Babu JM**, Eltorai A, Durand W, Patel S, Daniels A. *Recognition and management of emergent spinal pathology amongst first-line providers*. *Orthopedics*. 2020 April 9:1-7. doi: 10.3928/01477447-20200404-07
- Cohen E, **Babu JM**, Ritterman S, Borenstein T, Rubin L. *Heterotopic Ossification after Direct Anterior Approach Total Hip Arthroplasty*. *Journal of Hip Surgery*. 2019 Dec 2019;3:186-190.
- Daniels A, Patel S, Reid D Gao B, Kuris E, **Babu JM**, Depasse J. *Proximal Junctional Failure Prevention in Adult Spinal Deformity Surgery Utilizing Interlaminar Fixation Constructs*. *Orthopedic Reviews*. 2019 May 23;11(2):8068. <https://doi.org/10.4081/or.2019.8068>
- Babu JM**, Kalagara S, Durand W, Deren ME, Antoci V, Cohen E. *Sarcopenia as a Risk Factor for Prosthetic Infection after Total Hip or Knee Arthroplasty*. *Journal of Arthroplasty*. 2019 Jan 1;34(1):116-122  
Selected Key Article
- Babu JM**, Hodax J, Fadale P, Owens BD. *Osteochondral Allograft Transplantation: Identifying the Biomechanical Impact of Using Shorter Grafts and Pulsatile Lavage on Graft Stability*. *Journal of Knee Surgery*. 2018 Dec. doi:[10.1055/s-0038-1676501](https://doi.org/10.1055/s-0038-1676501)
- Marcaccio S, **Babu JM**, Shah K, Budacki R, Tabaddor R. *Diagnosis and Management of Hip Abductor Insufficiency*. *R I Med J*. 2018 Dec; 101(10):46-50
- Babu JM**, Patel S, Palumbo M, Daniels A. *Spinal Emergencies in Primary Care Practice*. *American Journal of Medicine*. 2018 Oct. doi:[10.1016/j.amjmed.2018.09.022](https://doi.org/10.1016/j.amjmed.2018.09.022)
- Deren ME, **Babu JM**, Cohen EM, Machan J, Born CT, Hayda R. *Increased Mortality in Elderly Patients with Sarcopenia and Acetabular Fractures*. *J Bone Joint Surg Am*. 2017 Feb 1;99(3):200-6
- Babu JM**, Shalvoy RM, Behrens SB. *Diagnosis and Management of Meniscal Injury*. *R I Med J*. 2016 Oct 4;99(10):27-30
- Ghodasra JH, Nickoli MS, Hashmi SZ, Nelson JT, Mendoza M, Nicolas JD, **Babu JM**, et al. *Ovariectomy-Induced Osteoporosis Does Not Impact Fusion Rates in a Recombinant Human Bone Morphogenetic Protein-2-Dependent Rat Posterolateral Arthrodesis Model*. *Glob Spine J*. 2016 Feb;6(1):60-8
- Babu JM**, Shah K, Mansuripur K, Hayda R. *Delayed Erosion Of A Pelvic Reconstruction Plate Into The Bladder Causing Recurrent Urinary Tract Infections*. *JBJS Case Connector* 5.4 (2015): e97. Web
- Lee SS, Hsu EL, Mendoza M, Ghodasra J, **Babu JM**, Hsu WK. *Gel Scaffolds of BMP-2-binding Peptide Amphiphile Nanofibers for Spinal Arthrodesis*. *Advanced healthcare materials*. 2015;4(1):131-141. doi:10.1002/adhm.201400129
- Ghodasra J, Nickoli M, Mendoza M, **Babu JM**, Polavarapu M, Nelson D, Maharaj K, Stupp S, McKee J, Bairstow S, Hsu EL, Hsu WK. *A Bioactive, Biodegradable, BMP-2-Binding Nanofiber Scaffold to Enhance Spinal Arthrodesis in a Rat Model*. *The Spine Journal, North American Spine Society*. 2012 Sept; 12(9): S19-S20

## Podium Presentations

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- Jami M, Xu A, Wang K, **Babu J**, Zhang B, Durand W, Musharbash F, Kebaish K. *Applying to Fellowship During a Pandemic: Lessons Learned from the 2020-2021 Orthopaedic Spine Fellowship Application Cycle*. *Orthopaedic Research and Education Foundation Northeast Regional Symposium 2021*
- Babu JM**, Wang KW, Kebaish K. *Sarcopenia as a Risk Factor for Complications Following Pedicle Subtraction Osteotomy*. *Maryland Orthopedic Association, 2021 Annual Meeting*
- Babu JM**, Wang KW, Kebaish K. *Sarcopenia as a Risk Factor for Complications Following Pedicle Subtraction Osteotomy*. *North American Spine Society, 2021 Annual Meeting*

- Babu JM.** *International Healthcare: From Volunteering to Creating.* International College of Surgeons. 82 Annual Surgical Update, 2020 Meeting, 4/2020
- Babu JM,** Hodax J, Fadale P, Owens B. *Osteochondral Allograft Transplantation: Identifying the Biomechanical Impact of Using Smaller Grafts.* American Orthopaedic Society for Sports Medicine. 2019 annual meeting, 07/2019
- Babu JM,** Kalagara S, Dominguez L, Durand W, Antoci V, Deren M, Cohen E. *Sarcopenia as a Risk Factor for Prosthetic Infection after Total Hip or Knee Arthroplasty.* Rhode Island Orthopedic Society, 2019 summer meeting, Providence, RI, 06/2019  
First Place – Top Research Project
- Babu JM,** Hodax J, Fadale P, Owens B. *Osteochondral Allograft Transplantation: Identifying the Biomechanical Impact of Using Smaller Grafts.* Arthroscopy Association of North America, 2019 annual meeting, Orlando, FL, 05/2019
- Babu JM,** Johnson J, Eltorai A, Durand W, Patel S, Daniels A. *Recognition and management of emergent spinal pathology amongst first-line providers.* New England Orthopedic Society, 2018 spring meeting, Harwich, MA, 06/2018
- Babu JM,** Kalagara S, Dominguez L, Durand W, Antoci V, Deren M, Cohen E. *Sarcopenia as a Risk Factor for Prosthetic Infection after Total Hip or Knee Arthroplasty: A New Era of Screening.* New England Orthopedic Society, 2018 spring meeting, Harwich, MA, 06/2018  
New England Orthopedic Society top resident publication award
- Babu JM,** Hodax J, Fadale P, Owens B. *Osteochondral Allograft Transplantation: Identifying the Biomechanical Impact of Using Smaller Grafts.* New England Orthopedic Society, 2018 spring meeting, Harwich, MA, 06/2018

## Poster Presentations

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- Sobel AD, **Babu JM,** Blood T, Paxton ES. *Biomechanical Comparison of Dual and Posterior Locking Plates for Comminuted Olecranon Fractures.* 74th Annual Meeting of the American Society for Surgery of the Hand, Las Vegas, NV. September 2019
- Patel S, Reid D, Gao B, **Babu JM,** Kuris E, Kleinhenz D, Daniels A. *Early Outcomes Following Interlaminar Fixation Construct Utilization for Prevention of Proximal Junctional Kyphosis.* International Society for Advancement of Spine Surgery Annual Meeting. Anaheim, CA. April 2019
- Babu JM,** Hodax J, Fadale P, Owens B. *Osteochondral Allograft Transplantation: Identifying the Biomechanical Impact of Using Smaller Grafts.* Invited: American Orthopaedic Association, 2019 annual meeting, San Diego, CA, 06/2019  
Winner: Top Poster Award in Sports Medicine
- Babu JM,** Johnson J, Eltorai A, Durand W, Patel S, Daniels A. *Recognition and management of emergent spinal pathology amongst first-line providers.* Invited: American Orthopaedic Association, 2019 annual meeting, San Diego, CA, 06/2019
- Babu JM,** Hodax J, Fadale P, Owens BD. *Osteochondral Allograft Transplantation: Identifying the Biomechanical Impact of Using Shorter Grafts and Pulsatile Lavage on Graft Stability.* Poster Accepted: AAOS 2019 Annual Meeting, Las Vegas, NV, 03/2019
- Cohen E, **Babu JM,** Ritterman S, Borenstein T, Rubin L. *Heterotopic Ossification after Direct Anterior Approach Total Hip Arthroplasty.* Poster Accepted: AAOS 2019 Annual Meeting, Las Vegas, NV, 03/2019
- Babu JM,** Johnson J, Eltorai A, Durand W, Patel S, Daniels A. *Recognition and management of emergent spinal pathology amongst first-line providers.* Orthopaedic Research Society, 2019 annual meeting, Austin, TX, 02/2019
- Babu JM,** Kalagara S, Dominguez L, Durand W, Antoci V, Deren M, Cohen E. *Sarcopenia as a Risk Factor for Prosthetic Infection after Total Hip or Knee Arthroplasty: A New Era of Screening.* Orthopaedic Research Society, 2019 annual meeting, Austin, TX, 02/2019

**Babu JM**, Hodax J, Fadale P, Owens B. *Osteochondral Allograft Transplantation: Identifying the Biomechanical Impact of Using Smaller Grafts*. Orthopaedic Research Society, 2019 annual meeting, Austin, TX, 02/2019

Johnson J, **Babu JM**, Eltorai A, Durand W, Patel S, Daniels A. *Recognition and Management of Spinal Emergencies Amongst First-line Providers*. E-poster: NASS 2018 Annual meeting. 09/2018

Ghodasra J, Nickoli M, Mendoza M, **Babu J**, Hsu WL, Hsu EL. *A Bioactive, Biodegradable, BMP-2-binding Nanofiber Scaffold to Enhance Spinal Arthrodesis in a Rat Model*. North American Spine Society, 2012 annual meeting, Dallas, TX, 10/2012

Nickoli M, Ghodasra J, Mendoza M, **Babu J**, Hsu WK, Hsu EL. *Evaluation of a Novel Bioactive Nanofiber Scaffold to Elicit Spine Fusion in a Rodent Arthrodesis Model*. Lumbar Spine Research Society, 2012 annual meeting, Chicago, IL 04/2012

Mendoza M, Hsu WK, **Babu J**, Polavarapu M, Kaltz S, Stupp S, McKee J, Bairstow S, Hsu EL. *Evaluation of Spinal Fusion Capacity by a Biodegradable Nanogel*. American Academy of Orthopaedic Surgeons, 2012 annual meeting, San Francisco, Ca, 02/2012

Mendoza M, **Babu J**, Hsu WK, Polavarapu M, Riaz R, Stock SR, Hsu EL. *Systemic Cytokine Profile during the Host Response to Recombinant Bone Morphogenetic Protein in a Rodent Posterolateral Spine Fusion Model*. Lumbar Spine Research Society, 2011 annual meeting, Chicago, IL, 05/ 2011

Mendoza M, **Babu J**, Hsu WK, Polavarapu M, Riaz R, Roc GC, Stock SR, Ghodasra JH, Hsu EL. *The Characterization of the Host Response to Bone Morphogenetic Protein – 2 during Early Bone Healing*. Cervical Spine Research Society, 2010 annual meeting, Charlotte, NC, 12/2010

## Book Chapters

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**Babu JM**, Zhang B, Jain A. AAOS Resident Curriculum: Diagnostic Imaging of the Spine

**Babu JM**, Eltorai A, Ebersson C, Daniels A. Essential Orthopedic Review: Questions and Answers for Senior Medical Students, Chapter 4, Dislocations. Springer Nature Publisher. June 2018.

**Babu JM**, Eltorai A, Ebersson C, Daniels A. Essential Orthopedic Review: Questions and Answers for Senior Medical Students, Chapter 5, Emergencies. Springer Nature Publisher. June 2018.

**Babu JM**, Eltorai A, Ebersson C, Daniels A. Essential Orthopedic Review: Questions and Answers for Senior Medical Students, Chapter 6, Principles of Trauma. Springer Nature Publisher. June 2018.

**Babu JM**, Eltorai A, Ebersson C, Daniels A. Essential Orthopedic Review: Questions and Answers for Senior Medical Students Chapter, 102, Spinal Cord Injury. Springer Nature Publisher. June 2018.

**Babu JM**, Eltorai A, Ebersson C, Daniels A. Essential Orthopedic Review: Questions and Answers for Senior Medical Students, Chapter 103, Cervical Fracture and Dislocation. Springer Nature Publisher. June 2018.

**Babu JM**, Eltorai A, Ebersson C, Daniels A. Essential Orthopedic Review: Questions and Answers for Senior Medical Students Chapter 104, Thoracolumbar Fracture. Springer Nature Publisher. June 2018.

## Video Publications

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Vangipuram S, **Babu JM**, Jain A. Single Position Lateral: Front-Back Spine Surgery Technique Video. AAOS Technical Videos – Submitted 12/2020

## Research Grants

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**RIH Orthopedic Research Foundation, Inc: \$5,000**. Yang W, **Babu J**, Levins J. Exploring the Role of SHP2 Signaling Pathway in Fracture Healing

**RIH Orthopedic Research Foundation, Inc: \$7,500**. Patel S, **Babu J**, Daniels A. Ligamentoplasty: a biomechanical study on range of motion at the UIV

**RIH Orthopedic Research Foundation, Inc: \$6,085. Babu J**, Owens BD. Osteochondral Allograft Transplantation: Can we get away with smaller plugs?

**RIH Orthopedic Research Foundation, Inc: \$8,000.** Sobel A, **Babu J**, Paxton ES. Dual Plate Fixation versus Single Plate Fixation of Olecranon Fractures

## **Current Research Projects**

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**Babu JM**, Mackenzie J. Orthopedic Residency Curriculum to Include International Electives

**Babu JM**, Mackenzie J. A systematic Review of the Impact of Bonesetters

**Babu JM**, Lyons S, Durand W, Patel S. Impact of COVID-19 pandemic on Surgical Nongovernmental Organizations.

**Babu JM**, Wang K, Kebaish K. Sarcopenia and its impact on outcomes after adult spinal deformity surgery.  
In preparation

## **Lectures**

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“Nonoperative Vs. Operative Management of Commonly Seen Spinal Pathologies.” Athletico Lecture. March 2022.

“When is it Coming From the Spine: Understanding Spinal Pathology and Treatment Options.” Advocate Condell Hospital. February, 2022.

“Global Volunteering: An Evolving Perspective.” Chicago Medical School Grand Rounds, Invited Speaker, April 2021.

“The Role of Steroids in Spinal Cord Injury.” Johns Hopkins Orthopedic Spine Dept. February, 2021.

“International Healthcare – Availability and Implementation Considerations.” Tufts University Orthopedic Department Grand Rounds, Invited Speaker, December 2020.

“International Healthcare – Availability and Implementation Considerations.” University of New Mexico, Global Surgical Student Alliance Online Webinar, Invited Guest speaker, June 2020.

“Global Volunteering in Orthopedics: An Evolving Perspective.” Brown University, Orthopedic Surgery Department Annual Danforth Lecture, June 2020.

“Orthopedic Spine Surgery Boards Review Course.” Ethiopian Orthopedic Resident Forum, Addis Ababa University, AO Trauma Sponsored Boards Review, November 2019.

“Orthopedic Trauma Surgery Boards Review Course.” Ethiopian Orthopedic Resident Forum, Addis Ababa University, AO Trauma Sponsored Boards Review, November 2019.

“Strategies in Implementing Sustainable Change Abroad.” Warren Alpert Medical School Student Lecture, Brown University, Global Interest Group, October 2019.

“International Volunteerism in Orthopedics.” Warren Alpert Medical School Student Lecture, Brown University, Women’s Orthopedic Leadership Forum, May 2019.

“Principles of Upper and Lower Extremity Casting.” Warren Alpert Medical School Student Lecture, Brown University, Women’s Orthopedic Leadership Forum, November 2018.

“Orthopedic Training and Volunteering in a Developing Country.” Carroll Silver Invited Lecture, Brown University, Department of Orthopedic Surgery, October 2018.

“Spinal Emergencies for Primary Care Providers.” Brown University, Family Medicine Department, August 2018.

“An Update on the Management of Spinal Emergencies.” Komfo Anokye Teaching Hospital, Orthopedic Department, August 2018.

“Acute Amputation vs. Limb Salvage for Mangled Lower Extremity Fractures.” Komfo Anokye Teaching Hospital, Orthopedic Department, August 2018.

“Management of Distal Humerus Fractures.” Komfo Anokye Teaching Hospital, Orthopedic Department, July 2018.

“Pearls and Pitfalls of Joint Aspiration for Emergency Providers.” Rhode Island Hospital, Emergency Department Orthopedic Instructional Lectures, May 2018.

“An Update on the Management of Spinal Emergencies.” Brown University, Orthopedic Surgery Grand Rounds, March 2018.

“Diagnosis and Surgical Management of Kienbock’s Disease.” Rhode Island Hospital, Department of Orthopedics, Combined Hand/Plastic Surgery Conference, October 2017.

“Strategies and Approaches to the Management of Articular Fractures.” New England Fracture Forum, May 2017.

“Surgical Approaches to the Pelvis.” Rhode Island Hospital, Department of Orthopedics, Resident Anatomy Lecture, August 2016.

“Techniques for Skeletal Traction and External Fixation in the Emergency Room.” Rhode Island Hospital, Department of Orthopedics, Resident Teaching Lecture, July 2016.

“Identification and Management of Compartment Syndrome.” Rhode Island Hospital, Department of Orthopedics, Resident Teaching Lecture, July 2016.

“Pressure Ulcers in the Orthopedic Patient.” Rhode Island Hospital, Department of Orthopedics, Quality Improvement Discussions, September 2014.

“Management of Medial Epicondyle Fractures.” San Francisco General Hospital, UCSF Department of Orthopedics, August 2013.

## **Administrative Service**

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**Brown Orthopedics/Ethiopia Collaborative Fellowship Committee** February 2019 – Present  
Addis Ababa, Ethiopia

**Fracture Liaison Service Creation Committee** August 2018 – July 2020  
Rhode Island Hospital, Providence, R.I

**Emergency Medicine Department Instructional Lecturer** May 2018  
Rhode Island Hospital, Providence, R.I

**Orthopedic Department Grand Rounds Chief** March 2018 – June 2019  
Brown University, Providence, R.I

**Aspiration Precautions Protocol Initiation** July 2017  
Rhode Island Hospital, Providence, R.I

**Resident Curriculum Committee Chief** Aug 2016 – June 2019  
Warren Alpert School of Medicine, Providence, R.I

**Cooperative Care Patient Quality Improvement Task Force** Aug 2014 – June 2019  
Rhode Island Hospital, Providence, R.I

**Lifespan Epic Super User** March 2015  
Rhode Island Hospital, Providence, R.I

**Treasurer of the Orthopedic Interest Group** Aug 2011 - Jun 2012  
Chicago Medical School, North Chicago, IL

## **Local Service**

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**Medical School Musculoskeletal Anatomy Lab Instructor** April 2018 – June 2019  
Warren Alpert Medical School of Brown University, Providence, R.I

**Brown University Sports Medicine Physician Coverage** July 2017 – June 2019  
Providence, R.I



**Mt. Hope High School Football, Sports Medicine Physician Coverage** Aug 2016 – June 2019  
Mt. Hope High School, Bristol, R.I.

**Big Brothers Big Sisters of Rhode Island** May 2015 - June 2020  
Providence, R.I.

**Orthopedic Surgery Interest Group, Mentor** July 2014 – June 2019  
Warren Alpert Medical School of Brown University, Providence, R.I.

**Surgical Subspecialties Medical Student Mentor** Aug 2014 – June 2019  
Warren Alpert Medical School of Brown University, Providence, R.I.

**Red Cross Blood Drive Volunteer** Jan 2010 – Dec 2010  
North Chicago, IL

**INSPIRE Mentor Program** Sep 2009 – Oct 2010  
Lake Zion High School, Illinois

## **International Service**

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**Health Volunteers Overseas Steering Committee** August 2021 – Present

**SIGN Fracture Care Volunteer** November 2019  
Addis Ababa, Ethiopia

**Brown Orthopedics International Volunteer Initiative** February 2019 – Present  
Addis Ababa, Ethiopia

**Ghana Health Volunteers Overseas** July 2018 – August 2018  
Orthopedic Volunteer, Komfo Anokye Teaching Hospital Kumasi, Ghana

**International Health Interest Group Volunteer** May 2011 - July 2011  
Rubirizi Health Center IV, Uganda

## **Professional Societies & Memberships**

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Orthopedic Research Society July 2018 - Present  
North American Spine Society Member May 2018 - Present  
Health Volunteers Overseas Member February 2018 – Present  
AO Trauma Member June 2015 - Present  
American Academy of Orthopedic Surgeons June 2014 – Present  
Alpha Omega Alpha Honor Society December 2013 – Present

## **Journal Reviewer**

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Global Spine Journal

British Medical Journal

Orthopedics

Journal of Clinical Neuroscience

Journal of Clinical Medicine

## **Meetings & Training Courses**

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Ethiopian Orthopedic Resident Forum (Faculty Instructor) – Addis Ababa, Ethiopia, November 2019  
Rhode Island Orthopedic Society Annual Meeting – Providence, RI, June 2019  
Arthroscopy Association of North America Annual Course – Orlando, FL, May 2019  
American Academy of Orthopaedic Surgeons Annual Course – Las Vegas, NV, February 2019  
Orthopaedic Research Society Annual Meeting – Austin, TX, February 2019  
New England Orthopaedic Society Annual Meeting – Harwich, MA, June 2018  
American Academy of Orthopaedic Surgeons Annual Course – New Orleans, LA, March 2018  
New England Fracture Forum – Raynham, MA, May 2016  
Arthroscopy Association of North America – Resident/Fellow Course: Fundamentals of Arthroscopy. Chicago, IL, December 2016  
Dallas Short Course, Orthotics and Prosthetics – Dallas, TX, October 2016  
Boston Orthopaedic Pathology Course – Boston, MA, April 2016  
AO Trauma – Basic Principles of Fracture Management – New Orleans, LA, March 2016  
Foundation for Orthopaedic Trauma – Trauma Symposium and Lower Extremity Dissection Course - Las Vegas, NV, January 2016

## **Team Coverage**

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Brown University – Men’s Football  
Brown University – Men’s Hockey  
Brown University – Women’s Hockey  
Brown University – Men’s Lacrosse  
Mt. Hope High School – Men’s Football

## **Interests**

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Travel (70+ countries), cultural experiences, new foods, leisure reading, volunteering  
Outdoor activities: Hiking, biking, scuba diving  
Competitive sports: Basketball, football, table tennis