ALEXANDRA MOREIRA

EDUCATION

Pain Medicine Fellowship	Rush University Medical Center, Chicago, IL, 60612	8/2024-8/2025
Physical Medicine & Rehab Residency	University of Miami, JMH Miami, FL 31328	7/2021-6/2024
Internal Medicine, Internship	Medical University of South Carolina, Charleston, SC 29407	7/2020-6/2021
Medical Degree, M.D.	Medical University of South Carolina, Charleston, SC 29407	8/2016-5/2020
Bachelor of Science, B.S.	Biomedical Engineering, University of SC, Columbia, SC 29201	8/2012-5/2016

WORK EXPERIENCE

Interventional Pain Physician	Illinois Bone & Joint, Barrington, IL 60010	9/28/26
Interventional Pain Physician	Southern Pain and Spine, Atlanta, GA 30324	10/1/2025-7/31/2026
PM&R Medical Director	Loyola University Acute Inpatient Rehab	6/2025-9/2025

AWARDS

Nevro Early Practice Leader's Summit 2025

$600 2024 ASRA Annual Meeting Cadaver Lab Workshop Travel Grant, 7/2024

Resident Research Award, Most Research Points, 6/2024

$1000 International Neuromodulation Society Travel Grant, 5/2024

$500 NANS North American Neuromodulation Society (NANS) Early Career Travel Fellowship Grant Award

NANS Rising Star Fellow Award, NANS, 12/2023

Poster to Podium Scholar, The American Society of Pain & Neuroscience (ASPN), 9/2023

$200 Resident Research Award, University of Miami, Department of PM&R 9/2023

$500 Committee of Interns & Residents Travel Award, Women innovators in Pain Medicine Meeting, 6/2023

ASPN Fellows Webinar Panelist, 2/2023

NANS Cadaver Lab participant, 2/2023

$500 NANS Diversity Outreach Committee Travel Award, 1/2023

$500 Committee of Interns & Residents Travel Award, ASPN Meeting, 1/2022

$300 Scholarship Fellows & Resident Award, ASPN Meeting, 1/2022

$400 Interventional Orthobiologics Foundation, IOF Max Experience Meeting Scholarship, 2/2022

$1000 University of Miami, Department of PM&R Educational Conference Stipend

Nth Dimensions AAOS Medical Student Symposium Grant Award Recipient, 3/2019
Nth Dimensions J. Robert Gladden Membership Scholarship Recipient, 3/2019
American Medical Association, Physicians of Tomorrow Scholarship Nomination, 2/2019

$4000 Mary D. Rich Dean's Academic Scholarship, 8/2018-2019

Nth Dimensions AAOS Medical Student Symposium Grant Award Recipient, 3/2018

Nth Dimensions J. Robert Gladden Membership Scholarship Recipient, 3/2018

$5,000 MUSC Alumni Fund Academic Scholarship, 8/2017
$5,000 Jerry & Jenny Reeves Diversity Scholarship, 8/ 2016
Perry V. Halushka 2013 Student Research Day: MUSC, Undergraduate Oral Presentation Award, 11/2013
$3,000 Magellan Scholarship Research Grant, University of South Carolina, 4/2015

$500 Magellan Voyager Travel Grant, University of South Carolina, 4/2015

LEADERSHIP EXPERIENCE

Regenerative Medicine Director, Southern Pain and Spine	12/2025
ASPN Diversity Webinar, Panelist Presenter	12/2025
ASPN Fellows Webinar Panelist, Regenerative Medicine	4/2025
ASPN Journal Club Panelist, Vertebrogenic pain	3/2025
NANS Journal Club Presenter	9/2024
ASPN Young Innovators Co-chair, Education Committee	8/2024-8/2027
International Neuromodulation Society (INS) Journal Club Presenter	7/2024
Women in Neuromodulation, Research Co-Chair	5/2024
ASPN Pain Unfiltered, Women in Medicine, Podcast Speaker	5/2024
Research Liaison, Women in Neuromodulation	5/2024
Peer reviewer, Pain Practice Journal	11/2023
Poster to Podium Scholar, The American Society of Pain & Neuroscience (ASPN).	9/2023
Women Innovators in Pain Management (WIPM), Education & Wellness Committee Member	1/2023
ASRA Mentorship Program	5/2023
ASPN Fellows Webinar Panelist	3/2025, 2/2023
Residency Social Media Director, University of Miami/ Jackson Memorial Hospital	3/2022-Present
Resident Liaison, University of Miami Medical School Iron Intellects Interest Group	7/2022-Present
Wellness Committee Representative, University of Miami/ Jackson Memorial Hospital Residency	8/2021-Present
Wodapalooza Crossfit Competition, Medical Sports Coverage	1/2022
World Amputee Football Federation USA National Amputee Soccer Team, Medical Sports Coverage	12/2021

PUBLICATIONS

Moreira, Alexandra. Deer, TR. Diwan, S; “Minimally Invasive Spine Techniques- Modern Approaches.” *Chapter 3 - Anatomy of the Cervical Spine*, Academic Press, 2026, p. Pages 15-44,.

Gish B, Al-Asadi Z, Tisler AT, Mata R, Chopra H, Garcia RA, Schatman ME, Tieppo Francio V, AlFarra T, Bracero L, Karcz M, Robinson CL, Shah A, **Moreira A**, Sciascia AD, Deer T. Factors in Surgical Placement and System Design to Reduce Pocket Awareness and Optimize the User Experience of Spinal Cord Stimulators – A Comprehensive Review. *J Pain Res*. 2025;18:6749-6768. https://doi.org/10.2147/JPR.S551513

Massey C, Latif U, Deer TR, Kalia H, Guirguis M, Bicket MC, Khatri N, Tolba R, Chakravarthy K, Budwany R, Lee DW, Patel AA, **Moreira AM**, Jimenez DA, Patel RG, Cowan I, Christiansen S, Wilson D, Chapman KB, Vu C, Manzi S, Nashi S, Waheed M, Shah A, Nasseri M, Buchanan P, Azeem N, Petersen EA, Schatman ME, Abd-Elsayed A, Sayed D, Diwan S. Guidelines From the American Society of Pain and Neuroscience for Using Artificial Intelligence in Interventional Spine and Nerve Treatment. *J Pain Res*. 2025;18:4211-4235. https://doi.org/10.2147/JPR.S529465. Pub status: published.

D'Souza RS, Her YF, Hussain N, Karri J, Schatman ME, Calodney AK, Lam C, Buchheit T, Boettcher BJ, Chang Chien GC, Pritzlaff SG, Centeno C, Shapiro SA, Klasova J, Grider JS, Hubbard R, Ege E, Johnson S, Epstein MH, Kubrova E, Ramadan ME, **Moreira AM**, Vardhan S, Eshraghi Y, Javed S, Abdullah NM, Christo PJ, Diwan S, Hassett LC, Sayed D, Deer TR. Evidence-Based Clinical Practice Guidelines on Regenerative Medicine Treatment for Chronic Pain: A Consensus Report from a Multispecialty Working Group. J Pain Res. 2024 Sep 11;17:2951-3001. doi: 10.2147/JPR.S480559. PMID: 39282657; PMCID: PMC11402349.

Deer TR, Nomen Azeem, **Moreira, AM**. How to Treat Low Back Pain: A Guide for Treating Causes of Low Back Pain for Physicians and APPs. United States, Elsevier Science. Nov 30, 2024. Pub status: published.

D'Souza RS, Her YF, Hussain N, Karri J, Schatman ME, Calodney AK, Lam C, Buchheit T, Boettcher BJ, Chang Chien GC, Pritzlaff SG, Centeno C, Shapiro SA, Klasova J, Grider JS, Hubbard R, Ege E, Johnson S, Epstein MH, Kubrova E, Ramadan ME, **Moreira AM**, Vardhan S, Eshraghi Y, Javed S, Abdullah NM, Christo PJ, Diwan S, Hassett LC, Sayed D, Deer TR. Evidence-Based Clinical Practice Guidelines on Regenerative Medicine Treatment for Chronic Pain: A Consensus Report from a Multispecialty Working Group. Journal of Pain Research, Sept;2024. 17:2951-3001. https://doi.org/10.2147/JPR.S480559. Pub status: published.

Malinowski, M. N., Gish, BE., **Moreira, AM**, Karcz, M., Bracero, L. A., & Deer, T. R. (2024). Electrical neuromodulation for the treatment of chronic pain: derivation of the intrinsic barriers, outcomes and considerations of the sustainability of implantable spinal cord stimulation therapies. *Expert Review of Medical Devices*, 1–13. https://doi.org/10.1080/17434440.2024.2382234

Moreira, AM., Diaz L, Presley J, Solorzano A, Diaz C, Yu K, Tiozzo E, Cruz A, Price C. Comparing the Effectiveness and Safety of Dexamethasone, Methylprednisolone and Betamethasone in Lumbar Transforaminal Epidural Steroid Injections. Pain Physician. 2024 Jul;27(5):341-348. PMID: 39087972.

Johnson, TS, & Heacock, TL, & **Moreira, AM**, & Bernard, J, & Ismaeli, ZC, & Coleman, NW, & Johnson, DC. (March, 2018). Suture Recycling Techniques for Arthroscopic Shoulder Stabilization. *Orthopaedic Video Theater.* http://aaos2018.conferencespot.org/66451aaos-1.4066572/1-1.4078139/t008-1.4078140/a0133-1.4078245/ovt50-1.4078258#tab_0=0, Pub Status: Published Video.

Ferdous, J, & Romito, E, & Doviak, H, & **Moreira, AM**, & Uline, MJ, & Spinale, FG, & Shazly, T. Isoreactive Manipulation of Bioadhesive Polymers Impacts Tissue-Specific Interactions. *Journal of Biomedical Science and Engineering.* 2017, May; 10(5): 287-303. Pub Status: Published.

Moreira, AM, & Bernard, J, & Johnson, DC, & Ismaeli, ZC, & Coleman, NW, & Mason, BS, & Johnson, TS. Nth Dimensions 2016-2017 Scholar's Review, "Anterior Cruciate Ligament Injury in Professional European Soccer Players: Cross-Sectional Analysis and Critical Review of Return to Play and Functional Performance After Injury". *Nth Dimensions 2016-2017 Scholar's Review*. 2017, Aug; 1(1): 55-56. Pub Status: Published.

Shazly, T, & Rachev, A, & Argraves, WS, & Ferdous, J, & Zhou, B, **Moreira, AM** & Sutton, M. On the Uniaxial Ring Test of Tissue Engineered Constructs. *Experimental Mechanics*. 2015, Jan; 55(1): 41-51. Pub Status: Published.

POSTER PRESENTATIONS

Moreira, AM, Graciolli, J & De Monaco, B (July ,2024). Retrograde Cervical Paddle Electrode Implantation Following Brachial Plexus Injury. ASPN Annual Meeting. Miami, FL. Poster.

Moreira, AM, Graciolli, J & De Monaco, B (July, 2024). Successful Treatment of Neuropathic Pain Using Spinal Cord Stimulation in a Patient Following Spinal Cord Injury: A Case Report. ASPN Annual Meeting. Miami, FL. Poster.

Moreira, AM, Diaz, L, Presley, J, Solorzano, A, Price, CN. (May, 2024). Comparing efficacy and safety of Betamethasone, Dexamethasone and Methylprednisolone in lumbar transforaminal epidural steroid injections for treatment of low back pain with radicular symptoms. International Neuromodulation Society (INS). Vancouver, BC. Poster.

Moreira, AM, Diaz, L, Presley, J, Solorzano, A, Price, CN. (January, 2024). Comparing efficacy and safety of Betamethasone, Dexamethasone and Methylprednisolone in lumbar transforaminal epidural steroid injections for treatment of low back pain with radicular symptoms. North American Neuromodulation Society (NANS). Las Vegas, NV, USA. Poster.

Moreira, AM, Pontee, N., Brunworth, K. (July, 2023). Successful Spasticity Management via Intrathecal Baclofen in an ALS Patient. American Society of Pain and Neuromodulation (ASPN). Miami Beach, FL, USA. Poster.

Moreira, AM, Pontee, N. (July, 2023). A Rare Case of Successful Treatment of Refractory Spasticity Management via Intrathecal Baclofen in a Patient Diagnosed with Adrenoleukodystrophy (July, 2023). American Society of Pain and Neuromodulation (ASPN). Miami Beach, FL, USA. Poster.

Moreira, AM, Sherman, AS. (February, 2022). Misdiagnosed Amyotrophic Lateral Sclerosis with Underlined Cervical Myelopathy. Association of Academic Physiatrists Annual Meeting Anaheim, CA, USA. Poster.

Moreira, AM, Price, CN. (January, 2023). Successful Treatment of Sjogren's Small Fiber Neuropathy with Dorsal Root Ganglion Stimulation. North American Neuromodulation Society (NANS). Las Vegas, NV, USA. Poster.

Moreira, AM, Price, CN. (January, 2023). Treatment of CRPS I Caused by Thalamic Pain Syndrome with Spinal Cord Stimulation. North American Neuromodulation Society (NANS). Las Vegas, NV, USA. Poster.

Moreira, AM, Horn, DB. (November, 2022). Successful Treatment of Intractable Hiccups after Stellate Ganglion Nerve Block. American Society of Regional Anesthesia and Pain Medicine (ASRA). Orlando, FL, USA. Moderated Poster Presentation.

Moreira, AM, Diaz, L, Presley, J, Solorzano, A, Price, CN. (November, 2022). Comparing efficacy and safety of Betamethasone, Dexamethasone and Methylprednisolone in lumbar transforaminal epidural steroid injections for treatment of low back pain

with radicular symptoms. American Society of Regional Anesthesia and Pain Medicine (ASRA). Orlando, FL, USA. Moderated Poster.

Moreira, AM, Darr, E, Vives, J. (July, 2022). Radiculopathy After Herpes Zoster Infection in an Immunocompetent Patient. American Society of Pain and Neuromodulation (ASPN). Miami Beach, FL, USA. Poster.

Moreira, AM, Molinares, D. (May, 2022). Maximizing Rehabilitation of a Patient with Leptomeningeal ATLL Continuing Chemotherapy Treatment via Ommaya Intrathecal Drug Delivery System. Association of Academic Physiatrists Annual Meeting. New Orleans, LA, USA. Poster.

Moreira, AM, Molinares, D. (March 18, 2022). Maximizing Rehabilitation of a Patient with Leptomeningeal ATLL Continuing Chemotherapy Treatment via Ommaya Intrathecal Drug Delivery System. ab University of Miami Resident Research Day. Miami, FL, USA. Poster.

Moreira, AM, Darr, E, Vives, J. (March 18, 2022). Radiculopathy After Shingles Infection in an Immunocompetent Patient. University of Miami Rehabilitation Research Day. Miami, FL, USA. Poster.

Moreira, AM, Darr, E, Vives, J. (February 17, 2022). Radiculopathy After Herpes Zoster Infection in an Immunocompetent Patient. Interventional Orthobiologics Foundation. Annual Meeting. Broomfield, CO, USA. Poster.

Moreira, AM, & Bernard, J, & Johnson, DC, & Ismaeli, ZC, & Coleman, NW, & Mason, BS, & Johnson, TS. (August, 2017). Anterior Cruciate Ligament Injury in Professional European Soccer Player: Cross-sectional Analysis and Critical Review of Injury Incidence and Return to Play Poster presented at: National Medical Association Annual Meeting; Philadelphia, PA, USA. Poster.

Moreira. AM, & Arrojas, A, & Jackson, JB, & Grabowski, G. (July, 2016). Outcomes of elderly patients with Isolated lower extremity fractures. Southern Orthopedic Association Annual Meeting; Naples, FL, USA. Poster.

Moreira. AM, & Arrojas, A, & Jackson, JB, & Grabowski, G. (April, 2016). Isolated lower extremity fractures in the elderly, is there an increased morbidity and mortality? A single center retrospective review at a level one trauma center Palmetto Health Medical Scholars Day; Columbia, SC, USA. Poster.

Moreira. AM, & Shazly, T, & Zhou. B, & Lessner, S, & Argraves, WS (November, 2015). Mechanical Characterization of Tissue Engineered Vascular Grafts. Annual Biomedical Research Conference for Minority Students; Seattle, WA, USA. Poster.

ORAL PRESENTATIONS

Moreira, AM., (June 2026). Women Innovators in Pain Management (WIPM) Annual Meeting. Regenerative Medicine-What does the Evidence say? Oral Presentation.

Moreira, AM., (April 2026). Georgia Society of Interventional Pain Physicians (GSIPP). Annual Pain Summit: Regenerative Medicine-What does the Evidence say? "Young Guns of GSIPP Oral Presentation".

Moreira, AM., Deer, T., Tate, J., Goree, J., Akuamoah, L., (December, 2025). ASPN Diversity in December: Expanding Perspectives in Pain Management. American Society of Pain and Neuroscience. ASPN Webinar.

Moreira, AM., Lubenow,T.,Pak,D., (April, 2025). ASPN Guidelines on Regenerative Medicine in Chronic Pain. American Society of Pain and Neuroscience. ASPN Fellows Webinar.

Moreira, AM., Patel, K., Padilla,A.. (February, 2025). ASPN Guidelines on treatment of Vertebrogenic back pain. American Society of Pain and Neuroscience. ASPN Journal Club.

Moreira, AM., Deer, T., Patel, K., Hunter, C., Grider, J., (September, 2024). Neurostimulation for non-surgical back pain. North American Neuromodulation Society Webinar. NANS Journal Club. Oral Presentation.

Moreira, AM., North, R., Bojanic, S., Solomons, J., Garcia, R., Kalleward, J., Saweris, Y., Khatri, Nasir. (July, 2024). Comparative Efficacy of Neuromodulation Therapies. International Neuromodulation Society Journal Club. International Journal Club. Oral Presentation.

Moreira, AM. & Khatri, N., (July, 2024). Young Innovators Panel Discussion. ASPN podium panel presentations. Miami, FL. Oral Presentation.

Moreira, AM. & Lubenow, T. (July, 2024). Dorsal Root Ganglion Stimulation as an Alternative Paradigm to Low Frequency Continuous Therapy. ASPN Poster to Podium Program Presentations. Miami, FL. Oral Presentation.

Moreira, AM. (September, 2022). A Rare Case of Ulnar Nerve Double Crush Syndrome. PM&R Dept Pain/EMG Case Presentation. Miami, FL, USA. Oral Presentation.

Moreira, AM. (September, 2022). Basics of Electrodiagnostic Testing and Rare Case Presentation. Physical Medicine & Rehabilitation VAMC Department Meeting. Miami, FL., USA. Oral Presentation.

Moreira, AM, Diaz, L, Presley, J, Solorzano, A, Price, CN. (November, 2022). Comparing efficacy and safety of Betamethasone, Dexamethasone and Methylprednisolone in lumbar transforaminal epidural steroid injections for treatment of low back pain with radicular symptoms. American Society of Regional Anesthesia and Pain Medicine (ASRA). Orlando, FL, USA. Oral Presentation.

Moreira, AM. (January, 2022). Management of Low Back Pain. PM&R Dept Pain/MSK Case Presentation. Miami, FL, USA. Oral Presentation.

Moreira, AM. (January, 2022). Surviving double bedside intubations and transfers during acute inpatient rehabilitation admission. PM&R Dept Grand rounds meeting. Miami, FL, USA. Oral Presentation.

Moreira, AM. (January, 2022). Novel Regenerative Medicine Therapies for the Treatment of Discogenic Low Back Pain. PM&R Dept Journal Club meeting. Miami, FL, USA. Oral Presentation.

Moreira, AM. (October, 2021). Management of acute onset seizure on call during acute inpatient rehabilitation admission. PM&R Dept Grand rounds meeting. Miami, FL, USA. Oral Presentation.

Moreira, AM. (September, 2021). PRP Clinical Applications. Physical Medicine & Rehabilitation VAMC Department Meeting. Miami, FL., USA. Oral Presentation.

Moreira, AM. (August, 2021). Management of acute DVT in a patient with history of recent hemorrhagic stroke. PM&R Dept Grand rounds meeting. Miami, FL, USA. Oral Presentation.

Moreira. AM., & Klatt, S., & Shazly, T., & Zhou. B., & Lessner, S., & Argraves, W.S. (April, 2014). Biomechanical Characterization of Tissue Engineered Vascular Constructs. SC EPSCoR IDeA State Conference; Columbia, SC, USA. Oral Presentation.

Moreira, AM, & Bernard, J, & Johnson, DC, & Ismaeli, ZC, & Coleman, NW, & Mason, BS, & Johnson, TS. (November, 2017). Incidence of Anterior Cruciate Ligament Injury in European Professional Soccer Players. Perry V. Halushka MUSC Research Day; Charleston, SC, USA. Oral Presentation.

Moreira, AM, & Bernard, J, & Johnson, DC, & Ismaeli, ZC, & Coleman, NW, & Mason, BS, & Johnson, TS (July, 2017). Incidence of Anterior Cruciate Ligament Injury in top 5 Leagues of European Professional Soccer. National Sports Medicine Annual Athletic Training Symposium; Lawnsdowne, VA, USA. Oral Presentation.

Moreira, AM, & Juarez-Perez, E, & Ferdous, J, & Shazly, T. (March, 2015). Advancing Tissue-Specific Design of Adhesive Polymers. Institute of Biological Engineering Annual Conference; St. Louis, MO, USA. Oral Presentation.

Moreira. AM, & Klatt, S, & Shazly, T, & Zhou. B., & Lessner, S, & Argraves, WS. (November, 2013). The Effect of Static Strain Conditioning on living Tissue Engineered Toroid Constructs. Perry V. Halushka MUSC Student Research Day; Charleston, SC, USA. Oral Presentation.

Johnson. TS, & Heacock, TL, & **Moreira, AM**, & Bernard, J, & Ismaeli, ZC, & Coleman, NW, & Johnson, DC. (March, 2018). Suture Recycling Techniques for Arthroscopic Shoulder Stabilization. American Academy of Orthopaedic Surgeons. Oral Presentation.

RESEARCH

ASPN Young Innovators Research Team 1/2024- Present

Mentor: Tim Deer, MD

- Guidelines for the Treatment of Complications related to Minimally Invasive Spinal Procedures for the treatment of Lumbar Spinal Disease
- A Comprehensive Guide to Dorsal Root Ganglion Stimulation for Pain Management
- Factors in Surgical Placement and System Design to Reduce Pocket Awareness and Optimize the User Experience of Spinal Cord Stimulators– A Comprehensive Review
- Atlas of Minimally Invasive Spine Procedures: Cervical DRG and Cervical and Thoracic Anatomy Chapters
- Quality Clinical Research in Private Clinical Practice
- ASPN Neuron Guidelines: Peripheral Nerve Stimulation Best Practice Guidelines
- ASPN Neuron Guidelines : Regenerative Medicine Best Practice Guidelines
- ASPN Neuron Guidelines: Artificial Intelligence in Pain Medicine
- ASPN Neuron Guidelines: Radiofrequency Ablation Best Practice Guidelines
- ASPN Neuron Guidelines: APP Best Practice Guidelines
- Expert Review: Intrathecal Drug Delivery Systems
- Expert Review: Spinal Cord Stimulation Best Practices for Low Back Pain

Rush University, Research Assistant 1/2024-8/1/2025

Dept of Anesthesiology & Pain Medicine

Timothy Lubenow, MD

- Randomized Single Blinded Clinical Trial. Abbott Dorsal Root Ganglion Intermittent dosing programming study.
- Cervical DRG stimulation, Cervical anatomy and thoracic anatomy, Atlas of minimally invasive spine procedures

Amin Sandeep, MD

- SLIDE Study: Testing Lead durability of electrode leads used in neuromodulation devices.
- PNS for upper extremity mononeuropathies: case series

Matthew Jaycox, MD

- Curing CRPS after SCS trial with FAST waveform: case report

University of Miami/Jackson Memorial Hospital, Research Assistant

Dept. of Anesthesia & Pain Medicine 8/2022-Present

Danielle B. Horn, MD

- *Case Report:* Successful Treatment of Intractable Hiccups after Stellate Ganglion Nerve Block

Dept. of Physical Medicine & Rehabilitation 1/2022-Present

Nicole Pontee, MD

- *Case Report:* Successful Spasticity Management via Intrathecal Baclofen in an ALS Patient.
- *Case Report:* A Rare Case of Successful Treatment of Refractory Spasticity Management via Intrathecal Baclofen in a Patient Diagnosed with Adrenoleukodystrophy.

Chane Price, MD

- *Retrospective Review:* Comparing efficacy and safety of Betamethasone, Dexamethasone and Methylprednisolone in lumbar transforaminal epidural steroid injections for treatment of low back pain with radicular symptoms.
- *Case Report:* Successful Treatment of Sjogren's Small Fiber Neuropathy with Dorsal Root Ganglion Stimulation
- *Case Report:* Treatment of CRPS I Caused by Thalamic Pain Syndrome with Spinal Cord Stimulation

Laura Y. Huang, MD

- *Case Report:* A Rare Case of Double Crush Syndrome in Patient with Ulnar Neuropathy at the Elbow and Wrist after Distal Radius Fracture

Diana Molinares, MD

- *Case Report:* Maximizing Rehabilitation of a Patient with Leptomeningeal ATLL Continuing Chemotherapy treatment via Ommaya Intrathecal Drug Delivery System

Angie Lastra, MD

- *Case Report:* A Rare Case of a Veteran Presenting with Peripheral Neuropathy Secondary to a Paraneoplastic Neurological Syndrome in the Setting of Monoclonal Gammopathy of Undetermined Significance

Medical University of South Carolina, Research Assistant 01/2019-07/2021

Emily Darr, MD

- *Case Report:* Shingles infection in an immunocompetent patient

National Sports Medicine Institute. Research Assistant, Nth Dimensions Scholar 05/2016-08/2017

Tim Johnson, MD, David Johnson, MD, Nathan Coleman, MD and Johnathan Bernard, MD

- Provided medical coverage for local minor league Baseball and soccer games. Served as a research assistant and conducted a cross sectional clinical research study analyzing the incidence of ACL injuries in athletes in European professional soccer leagues.
- Published a surgical technique video in the American Academy of Orthopaedic Surgeons Annual Meeting Orthopaedic Video Theater (March 2018). Nth Dimensions is a minority pipeline organization designed to increase the number of women and minorities in the fields of Orthopaedic Surgery and various other specialties.

University of Michigan School of Medicine, Research Assistant. Ann Arbor, MI. 6/2015-08/2015

Pre-MSTP summer research program, UM-SMART.

Ronald Koenig, MD, Dr. Melanie Urbanchek PhD, Paul Cederna, MD

- Manuscript submitted to the Journal of Reconstructive Microsurgery. This study focused on the biomechanical and biocompatible properties of an electrode used in the novel Regenerative Peripheral Nerve Interface (RPNI). The RPNI is a biocompatible device designed to enable sensory and motor control of SMART prostheses.

University of South Carolina School of Medicine, Columbia, SC. Research Assistant. 2/2015 - 5/2016

Alfredo Arrojas, MD and Benjamin Jackson, MD

- Conducted a retrospective review analyzing the mortality and morbidity rates among elderly patients with sustained isolated lower extremity injuries versus patients with hip fractures. Poster presentation at Palmetto Health Medical

Scholars Day (April 2016) and Southern Orthopedic Association Annual Meeting (July 2016). Helped organize and establish a 10-year e-database containing clinical performance and patient reported pain surveys from patients with sports related injuries treated at the USC Orthopaedic Specialty Clinics for use in future clinical research studies.

University of South Carolina, Engineering Dept, Columbia, SC. Research Assistant. 5/2013-5/2016
Tarek Shazly, PhD, Department of Biomedical Engineering

- Created a novel Chitosan: Dextran tissue-specific bioadhesive polymer for the use in surgical procedures. This novel bioadhesive contains enhanced biomechanical strength without sacrificing biocompatibility. Published in the Journal of Biomedical Science and Engineering.

MUSC Undergraduate Summer Research Program, Charleston, SC. Research Assistant. 5/2013-7/2014
William S. Argraves, PhD, Tarek Shazly, PhD
10 week summer research program.

- Designed, mechanically characterized and manufactured novel tissue engineered vascular grafts made from donor cells using a novel bioreactor system. Our work was published in the Journal of Experimental Mechanics. Posters presented at state, regional and national conferences.

MEMBERSHIPS

International Neuromodulation Society (INS)

American Society of Pain and Neuroscience (ASPN)

American Society of Regional Anesthesia and Pain Medicine (ASRA)

North American Neuromodulation Society (NANS)

Women in Neuromodulation (WIN)

Women in Pain Medicine (WIPM)

Florida Society of Interventional Pain Physicians (FSIP)

Interventional Orthobiologics Foundation (IOF)

American Academy of Physical Medicine and Rehabilitation (AAPMR)

Association of Academic Physiatrists (AAP)
Nth Dimensions

VOLUNTEER EXPERIENCE

Hands-on Workshop volunteer 12/2022- present

- Women in Pain Medicine (WIPM) Faculty instructor cadaver lab, Miami, FL, 7/2026
- American Society of Pain & Neuroscience (ASPN), Master's cadaver lab. Miami, FL, 7/2024.
- Women in Pain Medicine (WIPM) cadaver lab, Chicago, IL, 6/2024
- North American Neuromodulation Society (NANS) cadaver lab, Las Vegas, NV, 1/2024
- Women in Pain Medicine (WIPM) cadaver lab, Scottsdale, AZ, 6/2023
- North American Neuromodulation Society (NANS) cadaver lab, Las Vegas, NV, 1/2023
- American Society of Pain & Neuroscience (ASPN) Innovation Summit, advanced Cadaver Lab and data reveal. Las Vegas, NV, 12/2022.
- American Society of Pain & Neuroscience (ASPN) Annual Meeting, Advanced Cadaver Lab. Miami, FL, 7/2022.
- Interventional Orthobiologics Foundation Max 2022 Meeting. Broomsfield, CO. 2/2022.
- American Society of Pain & Neuroscience (ASPN) Innovation Summit, Advanced Cadaver Lab and Data Reveal. Las Vegas, NV, 1/2022.

PM&R Department Resident Lecturer 8/2021- present

- Fundamentals of Shoulder Ultrasound
- Management of Low Back Pain
- Ulnar nerve Double Crush Syndrome
- Peripheral Neuropathies in the setting of Paraneoplastic Syndrome
- Surviving double bedside intubations and transfers during AIR admission
- Novel Regenerative Medicine Therapies for the Treatment of Discogenic Low Back Pain - Management of Acute onset Seizure on call during AIR admission

- PRP Clinical Applications
- Management of acute DVT in a patient with recent hemorrhagic stroke

LICENSES/CERTIFICATIONS

ABPMR Board Certified Pain Medicine 10/206
ABPMR Board Certified Physical Medicine & Rehabilitation, 5/2025
Georgia Medical License
Illinois Medical license

LANGUAGES

English, native speaker
Spanish, native speaker

TRAINING CERTIFICATES

SI Bone, Sacroiliac joint fusion, 5/2026
Transloc, Cornerloc Sacroiliac joint fusion 1/2025
Minuteman Procedure 3/2025
Vertos MILD 1/2025
Boston Scientific Certification 2/2025
Vertiflex, 2/2025
Boston scientific Intracept/BVNA, 2/2025
Pentec, Intrathecal Drug Delivery Certified, 10/2024
Sprint PNS Certified 10/2024
Nevro Sacroiliac Joint Fusion Certified, 9/2024
Nevro SCS Certified, 9/2024
Abbott SCS Certified, 8/2024
Abbott Dorsal Root Ganglion Stimulation Certified, 8/2024, 1/2025
NANS SCS Certificate 1/2024
Abbvie Botox Spasticity Management Certified, 6/2024
Ultrasound guided peripheral joint procedures
EMG/NCS
Neurotoxin Injections
Fluoroscopic-guided spine procedures
Spasticity Management
Regenerative Medicine
BLS Certified, 8/2025
ACLS Certified 8/2025