

R. Glenn Gaston, M.D.

Curriculum Vitae

Personal Information

Practice Address: OrthoCarolina Hand Center
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Education and Honors

University of Tennessee College of Medicine, Memphis, TN August 1997 - June 2001
Doctor of Medicine (M.D.)
Class Notes Officer 1997-1998
Student Liaison Committee 1997-1999
Student Member of Medical School Admissions Committee 1997-2001

Orthopaedic Surgery Residency July 2001 - June 2006
Atlanta Medical Center, 303 Parkway Drive, NE, Atlanta, GA 30312
Hospital Graduate Medical Education Committee 2002-2003
Hospital Ethics Committee 2001-2006

Hand and Upper Extremity Fellowship August 2006 – 2007
The Indiana Hand Center, 8501 Harcourt Rd., Indianapolis, IN 46280

Basic Microsurgery Course
Indiana University School of Medicine September 18-22, 2006

Advanced Microsurgery Course February 17-18, 2007
Indiana University School of Medicine

Positions/Appointments

Professor, Department of Orthopaedic Surgery Atrium Health Musculoskeletal Institute – Wake Forest Baptist	2020 – present
Division Chief, Department of Orthopaedic Surgery Atrium Health Musculoskeletal Institute	2008 – 2023
Hand Fellowship Director OrthoCarolina Hand and Upper Extremity Fellowship, Charlotte, NC	2013-present

Professional Certifications

Board Certified, American Board of Orthopaedic Surgery Recertification	2009 2019
Certificate of Added Qualifications in Surgery of the Hand Recertification	2010 2019

Licensure

North Carolina Medical License #2007-00236	Active
Georgia State Medical License #52937	Expiration October 2007
Indiana State Medical License #01061779A	Expiration June 2007
Orthopaedic In-Training Examination 96% (2002), 98% (2003), 91% (2004), 99% (2005)	

Professional Organizations

Fellow of the American Orthopaedic Association	2018
American Society for Surgery of the Hand	2011
American Academy of Orthopaedic Surgeons	2011
AO Trauma	2015
NFL Physicians Society	2017

Pediatric Hand Study Group	2014
American Association for Hand Surgery	2013
American Society for Peripheral Nerve	2013
Elite Athlete Hand and Wrist Study Group	2012
Southeastern Hand Club	2012
North Carolina Orthopaedic Association	2007
North Carolina Medical Society	2007
Mecklenburg County Medical Society	2007
Phi Beta Kappa	1997
Michael Hoke Society	2006
Indianapolis Hand Society	2007
Ruth Jackson Orthopaedic Society	2021
J. Robert Gladden Orthopaedic Society	2021
Arms for All (Co-Founder)	2022 - present

Academic Assignments / Consulting

Program Director, OrthoCarolina Hand Fellowship	2013 – present
Chairman, GME Committee OrthoCarolina	2020 – present
Chairman of the Board, OrthoCarolina Research Institute	2022 - present
Chief of Hand Surgery, Atrium Health Orthopedic Residency	2008 – 2023
AAOS Board of Specialty Societies	2020 – present
Trustee of the American Association for Hand Surgery	2019 - present
Trustee American Foundation for Hand Surgery	2022 - present

American Association for Hand Surgery Junior Director at Large	2020 – 2022
American Association for Hand Surgery Senior Director at Large	2024 – present
Vice President American Foundation for Surgery of the Hand	2024-2025
American Association for Hand Surgery Education Committee	2022 - present
NFL Hand/Wrist/Elbow Subcommittee	2017 – 2020
Hand Consultant, Carolina Panthers	2009 - present
Hand Consultant, Charlotte Hornets	2013- 2020
Hand Consultant, NASCAR Joe Gibbs Racing Team Hendrick Motor Sports Stewart-Hass Racing	2008 – present
American Association for Hand Surgery Corporate Partnership Council	2023 - present
Board of Orthopedic Surgery Member	2020 – present
Arms for All Board of Directors & Founder	2018 - present
AO North America Hand Faculty	2015-2021
American Association for Hand Surgery Program Committee (First Assistant Chair 2018)	2018
American Society for Surgery of the Hand Hand-e Editorial Board Section Editor	2014-2022
American Society for Surgery of the Hand Clinical Research and Grantsmanship Committee	2015-2021
American Society for Surgery of the Hand Clinical Trials and Outcomes Committee	2008-2015
American Foundation for Surgery of the Hand	2022-present
AFSH Nominating Committee	2024-2025
American Society for Surgery of the Hand Young Leaders Program	2008 - 2009

American Society for Surgery of the Hand Young Members Steering Committee	2007-2010
Vice Chairman	2010-2011
Chairman	2011-2012
American Society for Surgery of the Hand Resident Education Committee	2012-2015
American Society for Surgery of the Hand Nominating Advisory Group	2012
AFSH/AHTF Collaborative Research Award Review Committee American Society for Surgery of the Hand Annual Meeting, Boston, MA	2014
American Foundation for Surgery of the Hand Complus Manus Committee	2013 – 2015
Arthroscopy Association of North America Question Writer for Self-Assessment Exam	2014-present
Indianapolis Hand Society Grant Review Board	2009 – present
Chairman, Oscar Miller Day, OrthoCarolina	2015-present
Research Advisory Committee OrthoCarolina Research Institute	2007- present

Journal Reviewer

Journal of Hand and Microsurgery	2010 - present
Journal of Hand Surgery	2011 – present
Hand	2021 – present
Techniques in Hand and Upper Extremity Surgery	2023 - present

Editor

ASSH Reconstruction of Upper Limb Amputations: Nerve, Bone, Soft Tissue, and Prosthetic Advances. Ed 1.	2025
Pediatric and Adult Hand Fractures, A Clinical Guide to Management Springer, 2023	2023
Yearbook of Hand Surgery (Contributing editor)	2011 – 2020

Online Webinars

AAHS Webinar Series for APP's: Endo Program Nov 12, 2024

AAHS Webinar Series for APP's: Snakes in the Grass Oct 15, 2024

AAHS Webinar Series for APP's: Tips and Pearls for Practice September 2024

ASSH CME Webinar: Innovative Salvage Procedures for DRUJ Instability and Arthritis. April 3, 2024
Gaston RG. TFCC Repair vs USO

ASSH Wiki Podcast Metacarpal and Phalangeal Fractures. Aug 9 2023
Gaston RG and Kakar S

ASSH Webinar on Management of Neuropathic Pain. May 30, 2023.
Gaston RG Course Chair

ASSH Webinar: Failed Nerve Decompression and Nerve Reconstruction. Dec 2, 2022
Gaston RG Failed ulnar nerve decompression

ASHT Webinar on Targetted Muscle Reinnervation. July 25, 2022
Gaston RG. TMR

AAOS/ASSH Webinar: Black Box no More, Ulnar Wrist Pain Demystified. May 5, 2022
Gaston RG. ECU reconstruction

ASSH Webinar on Failed nerve decompression and nerve reconstruction: what do I do now. Feb 23 2022.
Gaston RG Failed ulnar nerve decompression

AO Webinar: Thumb CMC arthritis. Feb 17 2021.
Gaston RG Revision CMC arthroplasty

AO Webinar: Articular fractures of the hand. Oct 6 2020
Gaston RG Phalangeal and metacarpal articular fractures of the digits

AAHS and POSNA sponsored Resident and Fellow Education Webinar: ORIF of the Distal Radius Including Volar Fixation and Fragment Specific Fixation; May 17, 2020

British Hand Society Annual Meeting: Management of Phalangeal Fractures; April 30, 2020

Philadelphia Hand Center; 2019 Mar 27. TMR

ASSH Webinar Panelist: Getting the Weekend Warrior Back to Play, November 19, 2018

ASSH Webinar Panelist, Complications in Hand Surgery. What Do I Do Now? - May 9, 2016

ASSH Webinar Panelist, SLAC/SNAC Wrist – Online Consultation Corner, August 19, 2013

Professional Lectures

ACSM Annual Meeting. Salt Lake City, UT. May 26-29 2026

Control + Alt + Tech: Potentials and Pitfalls for Extended Reality in Exercise Science

American Association of Plastic Surgeons. Lihue, Hawaii. May 2-5 2026.

Podium presentation: restoration of pinch strength following ulnar nerve palsy: nerve transfer of opponens pollicis to the terminal division of the deep branch of the ulnar nerve.

Summit on Surgery for Neuropathic Pain. Madrid Spain. March 19-20 2026

Using VR and Targeted Brain Rehabilitation to Soothe Phantom Limb Pain

American Association of Hand Surgery. Chula Vista CA Jan 13-17.

ICL 107: Flexor Tendon Repair, Contemporary Strategies and Complications: Instructor

Fracture Management Precourse: Chair

Worst Case: No Save

American Society of Hand Therapists Annual Meeting Salt Lake City UT. Oct 23-25 2025

Opening Keynote Address: Managing Residual Limb Pain and Phantom Limb Pain in Amputees

Instructional Concurrent Session 5: Targeted Brain Rehabilitation

American Society for Surgery of the Hand Annual Meeting. Vancouver, BC Canada Oct 9-12 2025

ICL 05: Mentoring Fellows with Positive and Negative Feedback

Precourse 1: Opponensplasty

Precourse 1: Anticlaw and pinchplasty

CCC37: Managing Conflict of Interest-Doesn't Everyone Have Bias

Resident Review Course: Ulnar Wrist Pain

Podium Presentation: Dib A, Owens V, Arendale R, Loeffler B, Gaston RG. Nerve Transfers For Cervical Spine Pathology: Restoring Shoulder And Elbow Function In Instances Of Cervical Radiculopathy And Post-operative Palsy

Podium Presentation: A MultiCenter Matched Cohort Study of Processed Nerve Allograft and Autograft in Mixed and Motor Nerve Reconstruction. Gaston RG, Power D, MacKay B, Watt A, Safa B, Buncke G.

Clinical Orthopedic Society. Amelia Island, FL. Sept 5, 2025

Podium Presentation: Virtual Reality as an Adjunct for Chronic Phantom Limb Pain. Frix JT, Loeffler BJ, Serbin R, Gaston RG

Taiwan Society for Surgery of the Hand. Taipei Taiwan. May 2-5 2025

The Use of Virtual Reality and Targeted Brain Rehabilitation

EEE VR 2025 Workshop: XR Health

Podium Presentation Johnson K, Gaston RG, Serbin R, Loeffler B "Prophylactically Limiting Phantom Limb Pain using Collaborative Virtual Reality"

OREF Southeast Resident Research Symposium. Miami FL. March 31, 2025

Podium Presentation Frix T, Gaston RG, Serbin R, Loeffler B

Using Virtual reality to Cure Phantom Limb Pain

ASPN Annual Meeting 2025. Waikoloa HA.

ICL 305: What is the future for Pan-Plexus Injuries: Functional Reconstruction vs Myoelectric Prostheses

AAHS Annual Meeting 2025. Waikoloa HA.

Precourse Fractures and Malunions: Course Chairman

ICL 108: Wrist and hand arthroscopy: from the basics to advanced techniques

Podium Presentation: revolutionizing Phantom Limb Pain management: Targeted Brain Rehabilitation in Upper Extremity Amputees.

IFSSH/IFST Triennial Congress Meeting 2025. Washington DC. March 24-28

Moderator Sports Symposium

PRE01: Ulnar Sided Wrist Pain

Podium Presentation Paper 70: Proximal Pole Scaphoid Reconstruction for Unsalveagable Proximal Pole Scaphoid Nonunions Using Proximal Hamate Autograft.

Podium Presentation Paper 349: A Comparison Study of 90-day Readmission, Emergency Department Visitation and Complications after Outpatient versus Inpatient Pediatric Pollicization Surgery

Podium Presentation Paper 42: Phantom Limb Pain: Defining and Treating it from the Patient Perspective

Society for Military Orthopedic Surgeons 2024 Annual Meeting December 11, 2024

Podium: Managing Major Peripheral Nerves in Forearm Level Amputations with TMR and RPNI—What's the Best Recipe?

American Society for Surgery of the Hand 2024 Annual Meeting. Minneapolis MN September 21 2024

Postcourse RPNI/TMR (Chair)

Precourse 15: Optimizing your practice: OR management

Precourse 3: Brachial plexus injuries: Current role of glenohumeral fusion in pan plexus injuries

Precourse 15: Maximizing Efficiency and Boosting Productivity (Moderator)

Resident and Fellows Review Course: Ulnar sided wrist pain

IC 30: Evaluation and treatment of peripheral TFCC tears

Oscar Miller Day

Charlotte, NC Oct 25, 2024

Podium: Forearm TMR: What's the Best Recipe

Podium: Managing Elite Athletes

American Orthotics and Prosthetics Association Annual Meeting Charlotte, NC September 12-13 2024

Upper Limb Amputee Workshop

Podium Presentation: Acute vs Delayed TMR

Podium Presentation: Managing Major Peripheral Nerves in Forearm Level Amputations

Podium Presentation: Empowering Amputees: Shaping Phantom Limb Pain Solutions from the Patient Perspective

Podium Presentation: Bridging Biology and Technology: The Starfish Procedure's Impact on Myoelectric Prostheses

Greenbrier Extremity Meeting, Sulfur Springs WV May 31-June 2.

Brachial plexus injuries: tough cases

Managing amputees and neuromas

American Association of Plastic Surgeons Annual Meeting. Boston, MA. May 18-21 2024

Podium Presentation: The role of conduction block in ulnar neuropathy at the elbow

Philadelphia Hand Meeting. Philadelphia, PA. March 16-18 2024.

Podium Presentation: TMR

Surgical Demonstration: Zone 1 FDP repair

Surgical Demonstration: Flexor Pulley reconstruction

American Association for Hand Surgery Annual Meeting 2024. Nassau, Bahamas

ICL 203: AIN Palsy: Tendon Transfers

ICL 118: Innovations in Hand Fracture Management (Chairman and speaker)

Bionic Reconstruction Meeting; New York, NY. Nov 30-Dec 1 2023

Podium Presentation: Forearm TMR

Panel Discussion: Forearm TMR

ASSH Annual Meeting; Toronto Canada Oct 2-8 2023

Post Course 2: The use of 3D technology for malunion correction

Resident Review Course: Ulnar Sided Wrist Pain

IC 47: Optimizing Finger Tip Amputations

Paper 46: 2023 Reliability of wrist arthroscopy in the diagnosis and treatment of triangular fibrocartilage complex tears. Graesser EA, Kakar S, Yao J, Gaston RG, GHoldfarb CA.

Chicago Hand Society Meeting; Chicago IL, May 5, 2023

Keynote Invited Speaker

Advancements in Upper Extremity Reconstruction

Keynote Speaker Daughters of the American Revolution; Charlotte, NC Nov 10, 2022

Gaston RG Advancements in the Care of Upper Extremity Amputees

ASSH annual Meeting 2022; Boston, MA Sep 29-Oct 1 2022

Gaston RG Program Chairman. Annual Meeting Welcome and Introduction

American Association of Hand Surgery 2022 Annual Meeting; Carlesbad, CA Jan 11-16

Podium Presentation: Distal TMR

Surgeons Workshop: Managing PIP joint fracture-dislocations

Society of Military Orthopaedic Surgeons Annual Meeting (Virtual) 2021.

Gaston RG, Sabbag CM: Complications of Elective Hand and Wrist Surgery Following Axillary Lymph Node Dissection: A Prospective, Cohort Study.

Orthopedic Summit Meeting 2021, Dec 12-13; Las Vegas NV

Podium Presentations:

Partial Wrist Fusions: My tips for Success

Managing common and not so common wrist injuries in athletes

Athlete wrist Panel

American Society for Surgery of the Hand. Sept 30-Oct 2 2021. San Francisco CA

Video Theater: The starfish procedure in an active duty soldier. Gaston RG, Loeffler B, Reaume J

Podium presentations:

Symposium 17: Managing neuromas

Post course 2: Nerve transfers

ICL 22: MP joint injuries of the thumb in athletes

Precourse 9: The role of bone grafting in distal radius fractures

Precourse 13: Managing elite athletes

ICL 39: Associated injuries with distal radius fractures

American Association of Orthopedic Surgery Annual Meeting. Aug 31- Sep 3 2021. San Diego CA

Podium presentations: Phalangeal fracture management

Hand Specialty day: Program Director

Moderator Pediatric Hand Session

AOSSM Annual Meeting July 7-11 2021

Nashville TN

Hunt T, Gaston RG. Metacarpal Fractures in the National Football League: Injury Characteristics, Management, and Return to Play

Philadelphia Hand Meeting March 27-29 2021. Philadelphia PA

Keynote Lecture: Targetted Muscle Reinnervation

Orthopaedic Trauma Association Annual Meeting; 2020 Oct 21-24

Gaston RG, (METRC Group). A Prospective Randomized Trial to Assess Fixation Strategies for Severe Open Tibia Fractures: Modern Ring External Fixators vs. Internal Fixation (FIXIT Study).

Gaston RG, (METRC Group). Supplemental Perioperative Oxygen to Reduce Surgical Site Infection After High-Energy Fracture Surgery (OXYGEN Study).

Gaston RG, (METRC Group). A Prospective Randomized Trial to Assess Oral (PO) Versus Intravenous (IV) Antibiotics for the Treatment of Post-op Wound Infection after Extremity Fractures (POvIV).

American Society for Surgery of the Hand Annual Meeting (virtual) Oct 1-3 2020.

IC 20: Distal radius fractures: a global perspective

IC01-L: Linscheid-Dobyns Excellence in Wrist Research Lecture

Precourse 03: Nerve Transfers: A Contemporary Pathway to Improve Function

Precourse 10: Managing ulnar sided wrist pain

Podium: Obtaining the Requisite Signals to Allow Independent Digital Motion

Podium: The Prevalence of Depression and PTSD in Adults with Traumatic Amputations

Podium: Impact of Timing of Targeted Muscle Reinnervation on Pain Control

Podium: Variations in the use of electrodiagnostic testing

AAOS Annual Meeting; 2020 Mar 25; Orlando, FL

Geary MB, Gaston RG, Chadderdon RC. Complications Following Transosseous Repair of Zone 1 Flexor Tendon Injuries.

Sirius XM Radio. Upper Extremity Injuries in NASCAR; 2020 Feb 10

American Association for Hand Surgery Annual Meeting; 2020 Jan 8 -11; Fort Lauderdale, FL

Delarosa M, Gaston RG, Loeffler BL, Gart MS. Palmaris Longus Innervation: Anatomical Study and Clinical Series of Its Application of Forearm TRM

SOMOS Scientific Program; 2019 Dec 17-20; Palm Beach, FL

Podium presentation: Advancements in the Care of Upper Extremity Amputees

Moderator: Hand General Session

Oscar Miller Day; 2019 Oct 4; Charlotte, NC

Podium presentation: Cervical Radiculopathy vs Peripheral Neuropathy

Moderator: Spine Pathology & Its Mimickers: From Primary Care to Specialist.

Annual Extremity Summit at Greenbrier Medical Institute; 2019 June 7-9; Greenbrier, WV

Podium presentations:

Amputation and Targeted Muscle Reinnervation

Nerve Transfers to Restore Shoulder Function

Interpositional Arthroplasty of the Elbow

Nerve Transfers to Restore Elbow Function

Physician Assistant Orthopaedic Surgery Association; 2019 May 17; Charlotte, NC

Podium presentation: Terrible Triad of the Elbow

64th Annual Meeting of the Plastic Surgery Research Council; 2019 May 2-5; Baltimore, MD

Lewis DR, Reid R, Pierrie S, Brannan PS, Loeffler BJ, Gaston RG, Gart MS. The incidence of PTSD and Depression in Adults with Operatively Treated Traumatic Brachial Plexus Palsy

Select Therapy Upper Extremity Symposium; 2019 Apr 12; Charlotte, NC
Podium presentations: Advances in the Care of Upper Extremity Amputees

North Carolina Association of Self Insurers Conference; 2019 Mar 29; Wrightsville Beach, NC
Podium presentation: TMR / Amputations

AAOS Annual Meeting; 2019 Mar 15-16; Las Vegas, NV
Podium presentation: What is the Role of Targeted Muscle Reinnervation?
ICL: Mallet Fractures and Fingertip Injuries
Resident Fellow Review Course, "Ulnar-sided Wrist Pain"
Pre-course 12: Athletic Injuries of the Upper Extremity: The Adolescent to the Adult – The Amateur to the Professional. "Fractures of the Hand and Wrist"

Hand Rehabilitation Foundation 21st Annual Hand Surgery Symposium: Weekend Warrior; 2019 Mar 2-5; Philadelphia, PA

Invited Honored Professor

Podium Presentations:

Roll with the Punches: Fracture and Ligament Injuries- Radial Collateral Ligament Injuries: Thumb & Index
The 9th Inning- Injuries on the NASCAR Circuit

Elbow: Throw them a Curve: Anatomy and Biomechanics of the Elbow

Panels:

Scapholunate Injuries: You be the Referee

The Rub is in the Elbow: Boomeritis: lateral and medial

Wrist Arthritis and Deinnervation: A New Normal for the Active Wrist

Injuries in Athletes

American Association of Hand Surgery Annual Meeting; 2019 Jan 30-Feb 2; Palm Desert, CA

Gaston RG, Gart MS, Loeffler BJ, Pierrie SN. Targeted Muscle Reinnervation for Prosthesis Optimization and Neuroma Management Following Transradial Amputation

McKnight RR, Gaston RG, Lewis DR, Tait MA, Bracey JW, Odum S. Retrospective Comparison of Capitulunate Fusion Using Headless Compression Screws vs Nitinol Memory Staples for SLAC and SNAC Wrist: Radiographic, Functional, and Patient-Reported Outcomes

Macknet DM, Loeffler BJ, Gaston RG, Marinello PG. Complications of Early Versus Delayed Total Elbow Arthroplasty (TEA) in the Treatment of Distal Humerus Fractures

MGC Educational Seminar. 2018 Nov 15; Charlotte, NC

Podium Presentations: Advances in Amputee Care: Targeted Muscle Reinnervation /and Starfish Procedure

ASSH Annual Meeting; Boston MA Sep 13-15 2018

Pre-course 05 Athletic Injuries of the Upper Extremity: The Adolescent to the Adult- The Amateur to the Professional. Metacarpal Fractures.

Pre-course 13. Navigating and Decision Making for Complicated Problems: A Case-Based Pre-course Kienbock's IIIB – Anything but Salvage Possible?

Pre-course 14: Controversies in Hand Surgery. The Non-Displaced Scaphoid Waist Fracture

Symposium #: 01. Debates by the Experts. Ulnar impingement – DRUJ arthroplasty.

IC10. Upper Extremity Amputations: The Future is Now! Starfish for distal amputees.

IC28. New Perspectives on Distal Radius Fractures: Tips and Tricks to Improve Care. Associated Injuries with Distal Radius Fractures: What I Do.

IC53. Managing the Osteoporotic Distal Radius Fracture

IC68. The Athlete's Elbow: A Balance Between Treatment and Return to Play (Abstract #4092).

Fractures around the Athlete's Elbow.

Post-course 03. Scaphoid Injuries – State of the Art Management. Percutaneous Fixation – Volar. Resident Review Course

Annual Extremity Summit at Greenbrier Medical Institute; 2018 June 8-10; Greenbrier, WV

Podium presentations:

ECU Tendon Injury in the Wrist

The Spastic Wrist

Hand Rehabilitation Foundation 20th Annual Hand Surgery Symposium: Call to Arms; 2018; Mar 24-26; Philadelphia, PA

Podium Presentation: Target Muscle Reinnervation to Improve Upper Limb Prosthetic Control

Cadaver Demo: Headless screws for Metacarpal and Phalangeal Fractures

American Academy of Orthopaedic Surgeons Annual Meeting; 2018 Mar 6-10; New Orleans, LA
Instructional lecture: Treating Hand Fractures: A Case-Based Approach to their Management and the Ability to Treat the Complications that will Inevitably Occur

Kruse LM, Gaston RG, Chadderdon RC, Loeffler BJ, Lewis DR. Betamethasone versus Ketorolac Injection for the Treatment of De Quervain's Tenosynovitis: A Double-Blind Randomized Clinical Trial.

Buck J, Ward AW, Gaul JS, Chadderdon RC, Osier LK, Bracey JW, Tait MA, Gaston RG. Thumb Carpometacarpal Arthroplasty in Young Patients

Australian Hand Surgery Society; 2018 Feb; Perth, Western Australia

Costas B, Coleman S, Kaufman G, James R, Cohen B, Gaston RG: Paper 51: A Randomized Phase 2A, Double-Blind, Placebo-Controlled, Dose-Ranging Study to Evaluate the Safety and Effectiveness of Collagenase Clostridium Histolyticum (CCH) in the Treatment of Dupuytren's Disease Nodules.

American Society for Surgery of the Hand Annual Meeting; 2017 Sept 7-9; San Francisco, CA

Precourse 12: Nerve Repair and Reconstruction: Hands-On Cadaveric Laboratory

Symposium 01: Optimizing Outcomes: The Surgeon's Role in Fragility Fracture Care

IC08: Publicizing Your Research: Getting Your Message Out

Symposium 06: Game-Changing Surgeries for Amputees that Every Hand Surgeon Can Perform

IC41: Treatment of Basal Joint Arthritis: Is anything better than the "old fashioned" LRTI?

IC55: Exploring the Boundaries of Wrist Arthroscopy

ICR15: Hand Injuries in the Athlete Hand Injuries in the Athlete (case reviews)

Symposium 15: Salvage of the Distal Radioulnar Joint: From Native Tissue to Metal and Plastic, How and What to Choose

American Society for Surgery of the Hand Electives in Hand Surgery Meeting; 2018 Jan 26-27; New

Orleans, LA

Podium Presentations:

An Algorithmic Approach to Diagnosing Ulnar Sided Wrist Pain

Ulnar Impaction – Diagnosis and Treatment

The Management of Acute Flexor Tendon Injuries

Targeted Muscle Reinnervation

American Association for Hand Surgery Annual Meeting; 2018 Jan 10-13; Phoenix, AZ

Gaston RG, Ford SE, Andersen JS, Mackel DM, Connor PM, Loeffler BJ. Major Complications after Distal Biceps Tendon Repairs: a Retrospective Cohort Analysis of 925 Cases.

AOA Own the Bone Symposium; 2017 June 23; Charlotte, NC

Epidemiology of Upper Extremity Fractures: Challenges and Opportunities.

Oscar Miller Day; 2017 Oct 6; Charlotte, NC

Start Your Engines, Injuries in NASCAR

A Paradigm Shift in Managing Peripheral Nerve Injuries: Nerve Transfers

The Starfish Procedure for Partial Hand Amputations

American Society for Surgery of the Hand Annual Meeting; 2017 Sept 7-9; San Francisco, CA

Precourse 12. Nerve Repair and Reconstruction: Hands-On Cadaveric Laboratory. Nerve Transfers for Elbow Function

Symposium 01. Optimizing Outcomes: The Surgeon's Role in Fragility Fracture Care. Considerations in the Surgical Treatment of Fragility Fractures

IC08. Publicizing Your Research: Getting Your Message Out (Moderator is Ryan Calfee)

Symposium 06. Game-Changing Surgeries for Amputees that Every Hand Surgeon Can Perform. Interossei Transfers for Partial and Total Hand Amputees: The Starfish Procedure

IC41. Treatment of Basal Joint Arthritis: Is anything better than the "old fashioned" LRTI? (Moderator is Louis Catalano) Treatment of Basal Joint Arthritis: Is anything better than the "old fashioned" LRTI?

IC55. Exploring the Boundaries of Wrist Arthroscopy (Moderator is A. Lee Osterman) Exploring the Boundaries of Wrist Arthroscopy

ICR 15. Hand Injuries in the Athlete Hand Injuries in the Athlete (case reviews)

Symposium 15. Salvage of the Distal Radioulnar Joint: From Native Tissue to Metal and Plastic, How and What to Choose. Ulnar Head Implant Replacement – Constrained (Schecker)

Annual Extremity Summit at Greenbrier Medical Institute; 2017 Jun 2-4; Greenbrier, WV

Podium presentations: Restoration of Arm Function After BPI

Physician Assistant Orthopaedic Surgery Association: Extremities in the Carolinas-Fingers to Nose/Knees to Toes; 2017 May 5; Charlotte, NC

Podium presentations:

Sports Hand Injuries

Ulnar Wrist Pain

American Society for Surgery of the Hand Wrist Course; 2017 Apr 28-29; Denver, CO

Dorsal Plate Indications/Techniques/Complications

Acute SL

Chronic SL

AAOS Specialty Day; 2017 Mar 18; San Diego, CA

Gaston RG. CMC Arthritis: Can I still win with an LRTI?

Tait MA, Bracey JW, Roulette P, Lewis DR, Gaston RG, Loeffler BJ. Infection Rates in Open Hand Fractures: Can Treatment Be Delayed?

Forearm TMR. Hanger Clinic Education Fair; 2017 Feb 3; Las Vegas, NV

Advancements in Upper Extremity Amputee Care. Philadelphia Hand Club Meeting; 2017 Feb 1; Philadelphia, PA

American Association of Hand Surgery Annual Meeting; 2017 Jan 10-14; Waikoloa, HI

Tait MA, Bracey JW, Roulette P, Lewis DR, Gaston RG, Loeffler BJ. Infection Rates in Open Hand Fractures: Can Treatment Be Delayed?

Tait MA, Osier LK, Odum S, Gaston RG, Loeffler BJ, Chadderdon RC, Ward AW. Lymphedema Following Elective Hand and Wrist Surgery in Women who are Post Axillary Lymph Node Dissection: A Prospective, Cohort Study.

NASCAR Summit; 2017 Jan 10; Concord, NC

Gaston RG, Heisel W. Hook of Hamate Fractures in Changers and Carriers.

OrthoCarolina Bread, Butter and Beyond: A Course on Peripheral Nerve and Soft Tissue Reconstruction of the Upper Extremity. OrthoCarolina; 2016 Nov 19; Charlotte, NC

Targeted Muscle Reinnervation (TMR).

Gaston RG, Moran S. Debate: TMR vs Transplantation

American Society for Surgery of the Hand Annual Meeting; 2016 Sept 28-Oct 1; Austin, TX

Ulnar-sided Wrist Pain (Resident Review Course)

Precourse 4. Elbow Trauma Reconstruction. Trochlea and Capitellar Shear Fractures.

Course Co-Chairman

Precourse 5. Clinical research. Perspectives on Conducting Research in a Private Practice

Precourse 10. Tendon and Nerve Transfers for Ulnar Neuropathy. Ulnar Pinch Plasty

ICL15. DRUJ Instability. Open Repair of TFC Tears Associated with Instability

Precourse 11. Arthroscopy of the Upper Extremity: Tips and Tricks from the Fingers to Elbow.

Scaphoid AARIF

IC 24. Salvage of the DRUJ – from Native Tissue to Metal and Plastic, how and what to choose.

Ulnar Head Implant Replacement Constrained (Schecker); Indications, Outcomes, Personal Experience and Surgical Tips

IC34. Clinical Research 101: A Crash Course for Meaningful Investigation.

Successful Reporting: Presentation and Publication

ICL 35. Hand-e 2016 - What is New and How to Get the Most From It.

What is in Hand-e and How to Find it

Post Course 2. Ulnar Sided Wrist Pain. TFCC repair: ECU Subsheath Reconstruction

IC50. Exploring the Boundaries of Wrist Arthroscopy. Wrist Arthroscopy Use during Fracture Treatment

Top Papers: Ward AW, Osier LS, Lewis DR, Loeffler BL, Chadderton RC, Gaston RG. Lymphedema

Following Elective Hand and Wrist Surgery in Women who are Post Axillary Lymph Node Dissection: A Prospective, Cohort Study

Podium: Costas B, Coleman S, Kaufman G, James R, Cohen B, Gaston RG: Paper 51: A Randomized Phase 2A, Double-Blind, Placebo-Controlled, Dose-Ranging Study to Evaluate the Safety and Effectiveness of Collagenase Clostridium Histolyticum (CCH) in the Treatment of Dupuytren's Disease Nodules

Annual Extremity Summit at Greenbrier Medical Institute; 2016 Jun 4; Greenbrier, WV

Podium presentations:

Dupuytren's Disease

Nonunion Radius

"Pro" Athletes –How They Differ

Pediatric Forearm

Loeffler BJ, Gaston RG. A Novel Muscle Transfer for Independent Digital Control with Myoelectric Prostheses. Podium presentation at The First International Symposium on Innovations in Amputation Surgery and Prosthetic Technologies. Chicago, IL. May 13 2016.

American Society for Surgery of the Hand Specialty Day; 2016 Mar 5; Orlando, FL

Gaston RG. Its Just Tendonitis. Problems after Trigger and DeQuervains Surgery

NFL Combines/ National Football League Physicians Society Meeting; 2016 Feb; Indianapolis, IN

Return to Play Guidelines for the NFL.

American Society for Surgery of the Hand Electives in Hand Surgery; 2016 Jan 29-30; New Orleans, LA

Ulnar Impaction – Diagnosis and Treatment

An Algorithmic Approach to Surgical Treatment of Ulnar Sided Wrist Pain

Flexor Tendon Injuries

Extensor Tendon Injury and Repair

NASCAR Summit; 2016 Jan 11; Concord, NC

Gaston RG, Wertman G, Heisel W. Upper Extremity Injuries in NASCAR

OrthoCarolina Wrist Course: Focus on Techniques in Wrist Arthroplasty and DRUJ. 2015 Nov 14; Charlotte, NC

Gaston RG. An Algorithmic Approach to Correctly Diagnosing Ulnar-Sided Wrist Pain.

North Carolina Orthopaedic Association. 2015 Oct 9-11; Kiawah Island, SC

Ode G, Loeffler B, Chadderdon R, Haines N, Scannell B, Patt J, Gaston RG. Knee Arthroscopy simulation Training: Does it translate to Improved Arthroscopic Proficiency in the Wrist?

American Society for Surgery of the Hand Annual Meeting; 2015 Sept 8-12; Seattle, WA

Resident and Fellow Review Course in Hand Surgery. Scapholunate ligament tears

Resident and Fellow Review Course in Hand Surgery. TFCC/DRUJ

Precourse 3. Failed Cubital Tunnel Decompression-Identifying the Cause(s) with a Treatment Algorithm

Precourse 5. Sensory Nerve Transfers for Median and Ulnar Nerve Function – Peripheral Nerve Reconstruction.

Precourse 10. The Difficult DRUJ

Precourse 10. Midcarpal Fusion

IC10. Ulnar Head Implant Replacement-Constrained (Schecker): Indications, Outcomes, Personal Experience and Surgical Tips

Podium: Ode G, Loeffler B, Chadderdon R, Haines N, Scannell B, Patt J, Gaston RG. Knee Arthroscopy simulation Training: Does it translate to Improved Arthroscopic Proficiency in the Wrist?

Brannan P, Gaston RG, Lewis D, Loeffler B. Complications with the Use of BMP-2 in Scaphoid Nonunion Surgery. Paper #13

Annual Extremity Summit at Greenbrier Medical Institute; 2015 Jun 6; Greenbrier, WV

Podium presentations:

What's New in Wrist Arthroscopy

Targeted Muscle Re-innervation

Management of Nonunion Distal Radius

Duke Review Course; 2015 Apr 17-18; Wilmington, NC

Podium presentations:

Congenital Hand

Use of Memory Staples in Hand Surgery

International Symposium on Dupuytren's Disease; 2015 May 22-23; Groningen, The Netherlands

Badalamente MA, Hurst LC, Gaston RG, Brown RA, Tursi JP, Smith T. Prospective Multicenter, Multinational Study to Evaluate the Safety and Efficacy of Concurrent Collagenase Clostridium Histolyticum Injections for Two Dupuytren Contractures in the Same Hand.

Philadelphia Annual Surgery Symposia; 2015 Mar 7-9; Philadelphia, PA

Management of Pediatric Scaphoid Fractures. Instructional Course: Headless Screw Fixation of Metacarpal Neck Fractures.

Masters Elite Education Series; 2014 Nov 15; Miami FL

Complications of Elbow Fractures: Parallel vs Perpendicular Plating. BiometAmerican Society for Surgery of the Hand Annual Meeting; 2014 Sept 18-20; Boston, MA

Advanced Wrist Arthroscopy: Techniques, Pearls and Case Discussion

Revision Peripheral Nerve Surgery...When and How

Podium: Shores J, Bosse M, Reider L, MacKenzie E, Gaston RG. A Prospective Multi-Center Registry of Peripheral Nerve Injuries Associated with Upper and Lower Extremity Orthopedic Trauma

Podium: Hurst L, Gaston RG, Brown R. et al. Multicenter, Multinational Study to Evaluate the Safety and Efficacy of Concurrent Collagenase Clostridium Histolyticum Injections to Treat Multiple Dupuytren's Contractures.

American Society for Surgery of the Hand Annual Meeting; May 3-4 2014 Austin TX

What Every Hand Surgeon Should Know About the Wrist: Distal Radius, Carpus and Ulnar-sided Wrist Pain Hand;

Acute & Chronic SL tears

Distal Radius Dorsal Plating

American Society for Surgery of the Hand/AAHS Specialty Day, American Academy of Orthopaedic Surgeons Annual Meeting; 2014 Mar 11-15; New Orleans, LA

Subluxating ECU Tendon: Dorsal Transposition

American Society for Surgery of the Hand Electives in Hand Surgery; 2014 Feb 7-8; New Orleans, LA

PIP Joint Injuries

Ulnar Impaction: Diagnosis and Treatment

Algorithmic Approach to the Surgical Treatment of Ulnar-sided Wrist Pain

Management of Wrist and Forearm Fractures in Athletes

Common Bone and Tendon Injuries in the Athletic Hand. OrthoCarolina Athletic Injuries of the Elbow, Wrist and Hand; 2014 Jan 18; Charlotte NC

Arthroscopy Association of North America Annual Meeting; 2013 Nov 8; Las Vegas, NV

Arthroscopic Treatment of Ulnar Impaction and Wrist Arthritis.

American Society for Surgery of the Hand Annual Meeting; 2013 Oct 2-5; San Francisco, CA

Instructional Course Lecture -Revision Peripheral Nerve Surgery.

American Society for Surgery of the Hand Annual Meeting, San Francisco, CA, 2013 Oct 2-5; San Francisco, CA

Colantoni J, Gaston RG, Patt J. Multiple Osteochondromatosis of the Hand- A Natural History Study.

American Society for Surgery of the Hand: Comprehensive Care of the High Level Athlete; 2013 May 3-4; Chicago, IL

Podium presentations:

Pitfalls in Managing Phalangeal Fractures and PIP Joint Injuries

FDP Avulsions

Biomet Elite Trauma Symposium; 2013 Feb 8-9; Miami, FL
Podium presentation: Metacarpal & Phalangeal Fractures
Podium presentation: Soft Tissue Repair of the Hand and Wrist

NASCAR Summit Meeting; 2013 Jan 8; Charlotte, NC
The Use of Position Specific Splinting in Motorsports.

Arthroscopy Association of North America Annual Meeting, November 9, 2012
Arthroscopic Resection of the Distal Ulna.

American Society for Surgery of the Hand Annual Meeting Young Members Forum; 2012 Sept 4-8.
Chicago, IL
Gaston RG. Hammert WC. How to Become Involved in the American Society for Surgery of the Hand
Gaston RG. Phalangeal Fractures.

American Society for Surgery of the Hand Masters Techniques in Tendon Repair and Reconstruction; 2012
Aug 3-4; Chicago, IL
Gaston RG. Restoration of Pinch.

Southeastern Hand Club; 2012 Apr; Monticello, VA
Complications of Hand Surgery in Patients Following Mastectomy with Lymph Node Dissection.

NASCAR Summit Meeting; 2012 Jan; Charlotte, NC
Injuries of the Elbow, Wrist, and Hand On and Off the Track Management.

1st Combined Meeting American Society for Surgery of the Hand/Australian Hand Society; 2012 Mar;
Kauai, Hawaii
Ward A, Gaston RG, Boatright JB. Midterm Results of Total Wrist Arthroplasty.

1st Combined Orthopedic Pathology Course for Adult and Pediatric Hand and Wrist Conditions. Invited
International Guest Professor; 2011 Mar 9-12; Santiago, Chile
Madelung's Deformity
ECU Tendonopathy and Instability
Elbow Capsular Releases
What's New in Hand Arthroplasty
Wrist Arthroplasty

Bionic Open; 2010 May; Charlotte, NC
Hand and Wrist Arthroplasty.

Oscar Miller Day; 2010 Oct; Charlotte, NC
Gaston RG. Unique Hand and Wrist Injuries in Athletes.

American Society for Surgery of the Hand Annual Meeting; 2010 Oct; Boston MA
Precourse: Controversies in Hand Surgery – What Works and What Doesn't
Podium presentation: Chronic Scapholunate Dissociation: New Techniques

American Academy of Orthopaedic Surgeons Annual Meeting; 2010 Mar; New Orleans, LA
Gaston RG, Lourie GM: Anomalous Thenar Musculature Associated with Aberrant Median Nerve Motor Branch Takeoff.

American Society for Surgery of the Hand Electives in Hand Surgery Course; 2010; New Orleans, LA
TFCC Tears What Needs to be Repaired and Why.
Arthroplasty of the DRUJ- Ablative Procedures
ECU Tendonosis and Instability
Arthroscopic Debridement
TFCC Tears: What Needs to be Repaired and Why

American Society for Surgery of the Hand Annual Meeting; 2009 Sept; San Francisco, CA.
Podium presentation: American Academy of Orthopaedic Surgeons Annual Meeting; 2010; New Orleans, LA
Gaston RG, Puckett B, Lourie GM, Peljovich AE, Floyd WE III. Remodeling Potential of Phalangeal Distal Condylar Malunions in Children.

American Society for Surgery of the Hand Masters Techniques in Tendon Repair and Reconstruction; 2009; Chicago, IL
Gaston RG. Restoration of Pinch.

American Society for Surgery of the Hand Annual Meeting Residents and Fellows Conference; 2009 Sept; San Francisco, CA
Capo J, Kuremsky M, Gaston RG. Sesamoid fractures of the lesser digits

Gaston RG, Cates TF, Blanco JB. Crossed Pin Versus Lateral Pin Fixation for Type III Supracondylar Fractures in Children: A Prospective, Randomized Study.

American Academy of Orthopaedic Surgeons Annual Meeting, 2007 Feb; San Diego, CA
Pediatric Orthopaedic Society of North American Annual Meeting; 2007; Hollywood, FL

Gaston RG, Greenberg JA, Hastings H, Mih A, Baltera RM. Clinical Outcomes of Four Corner Versus Isolated Capitellum Fusions

Podium presentations:

American Society for Surgery of the Hand Annual Meeting; 2007; Seattle, WA
Tri-State Annual Meeting; 2007; Indianapolis, IN

American Society for Surgery of the Hand Annual Meeting, Residents and Fellows Conference; 2006 Sept; Washington, DC

Gaston RG, Lourie GM, Koob TJ. A New Biomaterial; A Prosthesis for Thumb Ulnar Collateral Ligament Reconstruction.

MiMedx Physician Advisory Board Meeting; 2007 Jun; Gulf Breeze, FL

Indiana Hand Center Occupational Therapist Lecture, 2007
Wound Vac Indications, Applications, and Complications.

Atlanta Medical Center King Hancock Research Conference; 2007 May; Atlanta, GA
Winn JW, Gaston RG, Peljovich AE, Lourie GM. Distal Condylar Phalangeal Fracture Malunions in Children: Long Term Clinical and Functional Outcomes.

Atlanta Medical Center King Hancock Research Conference; 2007 May; Atlanta, GA
Puckett BP, Gaston RG, Lourie GM. Use of Graft Jacket in Chronic, Recurrent Compressive Neuropathy.

Atlanta Medical Center King Hancock Research Conference; 2007 May; Atlanta, GA
Total Elbow Allograft Arthroplasty.

Orthopedic Update for the Primary Care Provider Annual Conference; 2007; Charlotte, NC
Carpal Tunnel Syndrome.

Gaston RG, Swick MJ, Floyd WE III, Lourie GM: Pisotriquetral Dysfunction Following Wrist and Intercarpal Arthrodesis.

Podium presentations:

American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006

American Society for Surgery of the Hand, Annual Meeting, Residents and Fellows Conference San Antonio, TX, 2005

Georgia Orthopaedic Society Annual Meeting, Greensboro, GA, 2004

Gaston RG, Peljovich AE, Lourie GM: Radial Collateral Ligament Injuries to the Index Finger Metacarpophalyngeal Joint

International Research Society for Spinal Deformities Annual Meeting Vancouver, Canada, 2004
Gaston RG, Ganey T, Ogden JA: Facet Independence in the Posterior Vertebral Column

Invited Visiting Professorships

Vincent R. Hentz Visiting Professor (Stanford)
November 18-19, 2025
The Emerging Role of Virtual reality in Our Field
Advancements in Amputee Care

Baylor University Grand Rounds
Oct 31, 2025
Advancements in Amputee Care

Prisma Health Annual Greenville Orthopedic Day

May 16 2025

Responsible Implementation of Novel Techniques in Hand Surgery

Creating a Cyborg: Advancements of Amputee Care

Grand Round Brown University

Nov 20, 2024

Advancements in Amputee Care

Southard Visiting Professor

Case Western Reserve University

August 27/28th 2024

Grand Rounds Emory University

Virtual Event January 22, 2024

Advancements in Upper Extremity Amputee Care

Grand Rounds Brooke Army Medical Center

San Antonio TX Nov 15, 2023

Upper extremity TMR and Starfish Procedure

Graduation Speaker Virginia Commonwealth University

Richmond, VA June 22-23 2023

Creating a Cyborg

Nerve Transfers for all Orthopedic Subspecialties

Mason-Stromberg Lecture

Keynote Speaker May 4 2023

The 5 Biggest Game Changing Procedures of My Career

Grand Rounds Speaker Northwestern University

Chicago IL, May 5 2023

Creating a Cyborg

Nerve Transfers for All of Orthopedics

Grand Rounds Atrium Health Rehabilitation

Charlotte, NC Nov 18, 2022

Gaston RG Managing Tetraplegia

RUSH Orthopedics Grand Rounds

Chicago, IL Sep 12, 2022

Advancements in Upper Extremity Amputees

University of Wisconsin Grand Rounds
April 29, 2022
Advancements in the Care of Upper Extremity Amputees
Approaching Resident and Fellow Education in 2022

Curtis Hand Center Visiting Professor
Baltimore, MD
March 24, 2022
Advancements in the Care of Upper Extremity Amputees

University of Maryland Visiting Professor
Baltimore, MD
March 17, 2022
Advancements in the Care of Upper Extremity Amputees

Davidson University Guest Professor
Nov 19 2021
Upper Extremity Anatomy

University of Rochester Grand rounds Rochester NY
Nov 6 2021
Advancements in the Care of Upper Extremity Amputees

Memorial Hospital Grand Rounds. Ft Lauderdale FL
Oct 27 2021
Advancements in the Care of Upper Extremity Amputees

Mt. Sinai Hospital Grand Rounds. NY
Sept 29 2021
Advancements in the Care of Upper Extremity Amputees

Atlanta Medical Society
June 16, 2021
Balance and Efficiency

NYU Grand Rounds (virtual)
Nov 30 2020
Advancements in the Care of Upper Extremity Amputees

Carilion/Virginia Tech Grand Rounds October 2020
Advancements in the Care of Upper Extremity Amputees

Temple University Grand Rounds
July 29, 2020
Advancements in the Care of Upper Extremity Amputees

Buncke Clinic Visiting Professor July 2020
Advancements in the Care of Upper Extremity Amputees

University of Cincinnati Grand Rounds
April 22, 2020
Advancements in the Care of Upper Extremity Amputees

Brigham & Women's Hospital & Massachusetts General Hospital Departments of Orthopaedic Surgery
Dual Grand Rounds. 2020 Jan 22-23; Boston, MA

Podium presentations:
BWH: Advancements in the Care of Upper Extremity Amputees
MGH: Nerve Transfers for all Orthopedic Subspecialties

John Peter Smith Hospital. 2019 Nov 27; Fort Worth, TX
Podium presentations:
Diagnosing ulnar sided wrist pain
Upper extremity injuries in NASCAR
Advancements in the Management of Upper Extremity Amputees

University of Virginia Invited Chief Resident Graduation Speaker. 2019 June 21-22

Seattle Hand Surgery Group 27th Annual Dirstine Lectureship Invited Guest Professor. 2019 Apr 25-26;
Seattle, WA
Podium presentations:
Surgical Innovations for Upper Extremity Amputees
The Emerging Role of Nerve Transfers for Brachial Plexus Palsies, Peripheral Nerve Injuries and
Tetraplegia

Atrium Department of Orthopaedic Surgery Invited Guest Professors (Gaston & Loeffler) Improving
Function for Amputations. 2019 Mar 21; Charlotte, NC

Brown University Invited Guest Professor. 2019 Feb 20; Providence, RI
Podium presentation: Targeted Muscle Reinnervation and Nerve Injuries

MedStar Georgetown Orthopaedic Surgery Grand Rounds Visiting Professor; 2017 Nov 15-16

University of Utah HSC. Visiting Professor; 2017 May 17
Nerve transfers in orthopedics

Emory University and Atlanta Orthopaedic Society. Visiting Professor; 2017 May 11-12
Nerve transfers in orthopedics

Midcarpal Fusion Using Staples. The University of Louisville Invited Guest Professor. 2015 Nov 21;
Louisville, KY

Atlanta Medical Center King Hancock Research Day Invited Guest Professor; 2014 Jun 6; Atlanta, GA
Podium presentations:
Targeted Muscle Re-innervation
Ulnar Sided Wrist Pain: An Algorithmic Approach to Treatment

Course Faculty & Panels

International Bone Research Association. Rochester MN. June 20-21 2025
Percutaneous Volar and Dorsal Scaphoid Fixation

American Association of Hand Surgery Fellows Bootcamp. Charlotte, NC July 19-20 2025
Tendon Section Leader

American Association of Hand Surgery Fellows Bootcamp. Charlotte, NC July 19-20 2024
Tendon Section Leader

American Association for Hand Surgery Annual Meeting. Nassau Bahamas Jan 9-13, 2024
Faculty: Precourse Nerve Repair/reconstruction
Chairman ICL 118: Innovations in Hand Fracture Management
Faculty ICL AIN Palsy

Fellows Total Elbow Arthroplasty Course by DJO; Chicago IL, March 3-4 2023
Revision TEA Lecture
MP and PIP Arthroplasty Lecture
Lab Director

Trimed Upper Extremity Course. Nov 6 2021; Charlotte, NC
Managing SLAC & SNAC Wrist
Tips of Volar Plating

Empowerfest. Oct 27-28 2021. Ft Lauderdale FL
Advancements in the Care of Upper Extremity Amputees

Fellows Total Elbow Arthroplasty Course
Chicago IL. March 5-6 2021
How to Revise a TEA

ASSH Annual Meeting; 2020 Oct 1-3 (virtual)
Live Precourse 03: Nerve Transfers: A Contemporary Pathway (VAM20) Case Based Debate: Nerve Transfers for Elbow Flexion.

OnDemand Precourse 10: Case-Based Intl Approach to Ulnar Wrist Pain (VAM20) Interactive case based discussion of common ulnar wrist pain conditions highlighting diagnostic pearls and surgical tips and tricks.

American Association for Hand Surgery Annual Meeting; 2020 Jan 8 -11; Fort Lauderdale, FL
Mentors Reception and Trivia Contest, Chair
Concurrent Scientific Abstract Session III, Moderator
IC 124. Nerve Transfers versus Tendon Transfers to Restore Upper Extremity Function, Instructor
IC 202. State of the Art in Neural Interfaces and Prosthetics, Instructor

American Society for Surgery of the Hand Annual Meeting; 2019 Sept 3-5; Las Vegas, NV
Faculty: Arthroplasty of the Hand, Wrist and Elbow – A Cadaveric Skills Pre-course: “Ulnar arthroplasty”
Moderator: Solutions Center

Innovations in Elbow Arthroplasty Course. Sponsored by DJO; 2019 Apr 6; Charlotte, NC
Lecture and Surgical Skills Session

Hand Rehabilitation Foundation 21st Annual Hand Surgery Symposium: Weekend Warrier; 2019 Mar 2-5;
Philadelphia, PA
Faculty

American Association for Hand Surgery Annual Meeting; 2019 Jan 30 – Feb 3; Palm Desert, CA
Meeting Program Chairman
Instructional course: Transplant versus Neural Controlled Prostheses
Hands on Cadaver Workshop – Wrist Arthritis

American Society for Surgery of the Hand Annual Meeting; 2018 Sept 13-15; Boston, MA
Consultation Corner Panelist

Hand Rehabilitation Foundation 20th Annual Hand Surgery Symposium: Call to Arms; 2018 Mar 24-26;
Philadelphia, PA
Faculty

American Society for Surgery of the Hand Electives in Hand Surgery; 2018 Jan 26-17; New Orleans, LA
Program Chairman

American Association for Hand Surgery Annual Meeting; 2018 Jan 10-13; Phoenix, AZ
Faculty

Co-Chairman: New Horizons in Hand and Upper Extremity Surgery. Oscar Miller Day; 2017 Oct 6;
Charlotte, NC

American Society for Surgery of the Hand Annual Meeting; 2017 Sept 7-9; San Francisco, CA
Clinical Consultation Corner
Moderator: Clinical Paper Session 11: Elbow/Shoulder

American Society for Surgery of the Hand Wrist Course; 2017 April 28-29; Denver, CO

Advances in Total Elbow Arthroplasty. Duke University Medical Center Department of Orthopaedic Surgery; 2017 Apr 22; Durham, NC

Advancements in Upper Extremity Care. Philadelphia Hand Club Meeting. Invited Guest Speaker; 2017 Feb 1; Philadelphia, PA

Co-Chairman: OrthoCarolina Bread, Butter and Beyond: A Course on Peripheral Nerve and Soft Tissue Reconstruction of the Upper Extremity. OrthoCarolina; 2016 Nov 19; Charlotte, NC

AO North America Hand and Wrist Fracture Workshop; 2016 Oct 15; Charlotte, NC
Program Chairman and Instructor

TriMed Upper Extremity Cadaver Lab; 2016 Apr 16; Charlotte, NC

Podium presentations:

Ulnar Shortening vs. Wafer vs. Other

SLAC/SNAC Wrist

American Society for Surgery of the Hand Electives in Hand Surgery; 2016 Jan 29-30; New Orleans, LA

Program Chairman

Hand Fractures and Dislocations Panel Discussion

Q & A – Moderator: Universal Hand Problems Facing Therapists and Surgeons

Panel Discussion / Q & A / Case Studies – Moderator: Ulnar Sided Wrist Conditions

Opening remarks: Elbow and Shoulder

American Society for Surgery of the Hand Annual Meeting; 2016 Sept 28-Oct 1; Austin, TX

Postcourse 02: Ulnar Sided Wrist Pain and ECU: Anatomic Stabilization, Sling (Instructor)

Precourse 10: Tendon and Nerve Transfers Lab (Instructor)

Precourse 4: Elbow Trauma Reconstruction Lab

Greenbrier Research Summit; 2016 June 4; Greenbrier, WV

OrthoCarolina/Trimed Upper Extremity Cadaver Course; 2016 Apr 16; Charlotte, NC

Instructor

American Society for Surgery of the Hand/AAHS Specialty Day, American Academy of Orthopaedic Surgeons Annual Meeting; 2016 Mar 5; Orlando, FL

OrthoCarolina Wrist Course: Focus on Techniques in Wrist Arthroplasty and DRUJ; 2015 Nov 14; Charlotte, NC

Program Chairman

American Society for Surgery of the Hand Annual Meeting; 2015 Sept 8-12; Seattle, WA

Faculty: Resident and Fellow Review Course in Hand Surgery (Scapholunate ligament tears; TFCC/DRUJ)
Faculty: Consultation Corner
Faculty: Nerve Transfer Lab

Duke Review Course; 2015 Apr 17-18; Wilmington, NC
Moderator

TriMed Upper Extremity Cadaver Lab; 2015 May 16; Charlotte, NC
Volar Plate Fixation of Distal Radius Fractures – Volar Approach.

Philadelphia Annual Surgery Symposia; 2015 Mar 7-9; Philadelphia, PA
Panelist: Tread Lightly: Fractures from the Dark Side of the Hand
Panelist: Scaphoid Controversies: Has that Ship Sailed?
Panelist: Pediatric Elbow Injuries

Biomet Masters Elite Education Series; 2014 Nov 14; Miami FL
Course Instructor

Smith & Nephew Masters Hand & Wrist Arthroscopy Course; 2014 Nov 8; Charlotte, NC
Course Faculty

American Society for Surgery of the Hand Annual Meeting; 2014 Sept 18-20; Boston, MA
Moderator / Paper Discusser: Clinical Paper Session #11: Scaphoid / Carpus

Atlanta Medical Center King Hancock Research Day. Invited Guest Professor; 2014 Jun 6

American Society for Surgery of the Hand/AAHS Specialty Day, American Academy of Orthopaedic Surgeons Annual Meeting; 2014 Mar 11-15; New Orleans, LA
Moderator Sports Symposium

American Society for Surgery of the Hand Electives in Hand Surgery; 2014 Feb 7-8; New Orleans, LA

Arthroscopy Association of North America Annual Meeting; 2013 Nov 8; Las Vegas, NV

American Society for Surgery of the Hand Annual Meeting; 2013 Oct 2-5; San Francisco, CA
Master Skills Precourse Lab: Tendon Repair and Reconstruction

American Society for Surgery of the Hand Annual Meeting; 2013 Oct 2-5; San Francisco, CA
Course Faculty
Management of the Difficult Elbow: Fix It or Replace It
Presented by Biomet, Inc. Labs

American Society for Surgery of the Hand Annual Meeting; 2013 Oct 2-5; San Francisco, CA

American Society for Surgery of the Hand: Comprehensive Care of the High Level Athlete; 2013 May 3-4;
Chicago, IL
Session 4 Moderator

Elite Trauma Symposium; 2013 Feb 8-9; Miami, FL
Lab Course Instructor
Presented by Biomet, Inc. Labs

Arthroscopy Association of North America Annual Meeting; 2012 Nov 9

American Society for Surgery of the Hand Annual Meeting Young Members Forum; 2012 Sept 4-8;
Chicago, IL
Course Chairman

American Society for Surgery of the Hand Precourse 4: Treatment of Hand and Wrist Injuries in Elite
Athletes; 2012 Sept 4-8; Chicago, IL
Panel discussion: Scaphoid Fractures
Panel discussion: Phalangeal Fractures

American Society for Surgery of the Hand Masters Techniques in Tendon Repair and Reconstruction; 2012
Aug 3-4; Chicago, IL
Laboratory instructor: Tendon transfers

American Society for Surgery of the Hand Annual Meeting; 2011 Sept; Las Vegas NV

Oscar Miller Day; 2010 Oct; Charlotte, NC
Course Chairman

American Society for Surgery of the Hand Electives in Hand Surgery Course; 2010; New Orleans, LA

American Society for Surgery of the Hand Masters Techniques in Tendon Repair and Reconstruction;
2009; Chicago, IL
Laboratory instructor: Tendon transfers

Honors & Awards

2025 NC Tech Award: Health Tech Core Innovation Award

2024 Charlotte Business Journal Most Innovative Person in Healthcare

2024 Wake Forest University School of Medicine Charlotte Campus Medical Student Teaching Faculty Award

2024 Basil Boyd Award Top Podium Presentation, Oscar Miller Day. Targeted Muscle Reinnervation for Managing Phantom Limb Pain. Charlotte, NC.

2024 Runner Up Top Fellow Presentation Greenbrier Research Summit 2024. Proximal Pole Scaphoid Reconstruction for Unsalveagable Proximal Pole Scaphoid Nonunions Using Proximal Hamate Autograft

2024 NC Idea Award. The Use of Virtual Reality to Minimize Phantom Limb Pain. Gaston RG, Loeffler BJ, Frix T, Serbin R. Top New Business Idea for the State of NC

2024 Resident research award, Atrium Health Carolinas Medical Center Orthopaedic Surgery Resident Research Day. Rees AB, Mastracci JC, Posey SL, Loeffler BJ, Gaston RG. Forearm Targeted Muscle Reinnervation: What's The Best Recipe?

2023 ASSH Linschied-Dobyns Award for Excellence in Wrist Research. Reliability of wrist arthroscopy in the diagnosis and treatment of triangular fibrocartilage complex tears. Graesser EA, Kakar S, Yao J, Gaston RG, GHoldfarb CA.

2023 AAOS Annual Meeting Honorable Mention Best Video Theater Contribution: Mastracci JC, Gaston RG, Loeffler BJ. Regenerative peripheral nerve interfaces and targeted muscle reinnervation: Surgical technique. American Academy of Orthopedic Surgery Annual Meeting. Mar 7-11 2023. Las Vegas NV.

2022 Jamie Dianne Bulken-Hoover Award for Best Hand Paper at the Society of Military Orthopedic Surgery (SOMOS). Acute versus delayed targeted muscle reinnervation for upper extremity amputees. Posey L, Loeffler B, Gaston RG.

2022 First Place Video Theater Presentation American Society for Surgery of the Hand (ASSH) Annual Meeting. Regenerative peripheral nerve interfaces and targeted muscle reinnervation: Surgical technique. Mastracci J, Loeffler B, Gaston RG.

2021 ASSH Top 5 Paper. Managing Digital Nerve Neuromas. Maslow J, Gaston, RG, Loeffler B.

2021 ASSH 2nd Place Best Video Theater: Pinch reconstruction via transfer of the motor branch of the opponens pollicis to the terminal division of the ulnar nerve. RG Gaston and B Loeffler

JE Hanger Award for Innovation, 2020

ASSH Best Video Theater: Ford S, Cook S, Gaston RG. Video Theater 8001: Huber Transfer for Opposition in Thumb Hypoplasia. American Society for Surgery of the Hand Annual Meeting; 2017 Sept 7-9; San Francisco, CA

Orthopedic Surgeons to Know (Becker's Orthopedic Review), June 2017

AAOS Award Winning Movie: Gaston RG, Loeffler BJ, Tait MA, Bracey JW. Targeted Muscle Reinnervation and Its Role in Acute Management of Above Elbow Amputations; AAOS Annual Meeting; 2017 Mar 14-18; San Diego, CA

NCNextFirsts Award 2016: North Carolina Department of Commerce Acknowledgement of the top innovative accomplishments in the history of the state of NC.

Best Papers (Top 4): Gaston RG, Osier LK, Loeffler BJ, Chadderton RC, Ward AW, Hammert WC, Chung KC, Wolf JM: Paper #2: "Lymphedema Following Elective Hand and Wrist Surgery in Women who are Post Axillary Lymph Node Dissection: A Prospective, Cohort Study" American Society for Surgery of the Hand Annual Meeting, Sept 2016

Faculty Teaching Award Carolinas Medical Center, Department of Orthopedic Surgery: 2009, 2010, 2014

OrthoCarolina Catalyst Award, 2012

OrthoCarolina Physician of the Year, 2012

45 Great Hand and Upper Extremity Surgeons to Know (Becker's ASC Award), 2011

Charlotte Magazine Top Doctors Award, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023

Puckett B, Lourie GM, Gaston RG: A New Technique in Managing Recurrent Cubital Tunnel. Poster presentation: American Society for Surgery of the Hand Residents and Fellows Conference, 2008 1st place poster presentation, American Society for Surgery of the Hand, 2008

Gaston RG: A New Biomaterial for Thumb Ulnar Collateral Ligament Reconstruction Joseph H. Boyes Award, Second Runner Up, Podium presentation: American Society for Surgery of the Hand Annual Meeting Residents and Fellows Conference, 2006

1st Place, Outstanding Resident Research, Atlanta Medical Center King Hancock Research Day. 2006.

Gaston RG, Cates TF, Blanco JB: Crossed Pin Versus Lateral Pin Fixation for Type III Supracondylar Fractures in Children: A Prospective, Randomized Study. Thomas E. Whitesides Award for Most Outstanding Resident Research Paper, Georgia Orthopaedic Society, 2006

Gaston RG: Pisotriquetral Arthritis Following Wrist and Intercarpal Arthrodesis. 1st Place Outstanding Resident Research, Atlanta Medical Center King Hancock Research Day, 2005

Gaston RG, Murawski DE, Peljovich AE, Lourie GM: The Triggering Digit. First Place: American Academy of Orthopaedic Surgeons Resident's Case Authoring Contest, 2004

Gaston RG: Radial Collateral Ligament Injuries to the Index Finger Metacarpophalyngeal Joint
Thomas E. Whitesides Award for Most Outstanding Resident Research Paper, Georgia Orthopaedic Society, 2004

Most Outstanding Paper, Southeastern Hand Club, 2004

Peer Reviewed Publications

1. Serbin RP, Frix JT, Bowmar E, Johnsen K, Siebter M, Ahn G, Loeffler BJ, Gaston RG. Targeted Brain Rehabilitation: Development, Feasability, and Usability of a Novel Virtual Reality System for Phantom Limb Pain Management and Amputee Rehabilitation. *J Hand Surg* 2025 Dec;50(12):1445-1453. PMID 41186547
2. Nord KM, Sabbag CM, Denduluri SK, Loeffler BJ, Gaston RG. Outcomes of the Starfish Procedure Using Muscle Transfer for Independent Digital Control of a Myoelectric Prosthesis. *J Hand Microsurg* 2025 Jul 31;17(6): 100333. PMID 40809317
3. Frix JT, Serbin RP, Rieker MG, Johnsen K, Bowmar E, Loeffler BJ, Gaston RG. Immediate Postoperative Virtual Reality for Phantom Limb Pain in Multi-extremity Amputees: A Report of 3 Cases. *JBJS Case Connect* 2025 Oct 9;15(4). PMID 41066593
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Gaston RG, (METRC). Predicting Deep Surgical Site Infections in High-Risk Tibial Plateau and Pilon Fracture: A Secondary Analysis of the VANCO Trial. Accepted for Poster Presentation: Orthopaedic Trauma Association Annual Meeting; 2020 Oct 21-24

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Geary MB, **Gaston RG**, Chadderton RC. Complications Following Transosseous Repair of Zone 1 Flexor Tendon Injuries. E-Poster: AAHS Annual Meeting; 2020 Jan 8-11; Fort Lauderdale, FL

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Lewis DR, Reid R, Pierrie S, Brannan PS, Loeffler BJ, Gaston RG, Gart MS. The Incidence of PTSD and Depression in Adults with Operatively Treated Traumatic Brachial Plexus Palsy; e-Poster: American Association of Hand Surgery Annual Meeting; 2019 Jan 30-Feb 2; Palm Desert, CA

Marinello PG, Loeffler BJ, **Gaston RG**, Lewis DR. Celebrating 100 Years of the Steindler Flexorplasty - A Systematic Review of Literature, Description of Current Technique, and Outcomes. e-Poster: American Association of Hand Surgery Annual Meeting; 2019 Jan 30-Feb 2; Palm Desert, CA
I-Poster: American Society for Surgery of the Hand Annual Meeting; 2018 Sep 13-15; Boston, MA

Susan M. Odum, PhD; R Christopher Chadderton, MD; **Glenn Gaston, MD**. Measuring Health Utility for Trigger Finger and Carpometacarpal Arthritis: Does the Instrument Matter? e-Poster: American Association of Hand Surgery Annual Meeting; 2019 Jan 30-Feb 2; Palm Desert, CA

McKnight RR, **Gaston RG**, Lewis DR, Tait MA, Bracey JW, Odum S. Retrospective Comparison of Capitolunate Fusion Using Headless Compression Screws vs Nitinol Memory Staples for SLAC and SNAC Wrist: Radiographic, Functional, and Patient-Reported Outcomes. I-Poster: American Society for Surgery of the Hand Annual Meeting; 2018 Sep 13-15; Boston, MA

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Ford SE, Andersen JS, Macknet DM, Connor PM, Loeffler BJ, **Gaston RG**. Pseudoelastic Nitinol Compression Element. Poster Presentation: American Academy of Orthopaedic Surgeons Annual Meeting; 2018 Mar 6-10; New Orleans, LA

Gaston RG, Ford SE, Andersen JS, Macket DM, Connor PM, Loeffler BJ. Major Complications after Distal Biceps Tendon Repairs: a Retrospective Cohort Analysis of 925 Cases. Poster presentation: American Academy of Orthopaedic Surgeons Annual Meeting; 2018 Mar 6-10; New Orleans, LA
Brannan PS, Ward WA, Gaston RG, Woodside JC, Chadderdon RC, Connell B. 2-year Clinical and Radiographic Outcomes of Aptis Distal Radioulnar Joint Arthroplasty. (Electronic Poster) American Association for Hand Surgery Annual Meeting; 2018 Jan 10-13; Phoenix, AZ

Ford S, Cook S, **Gaston RG**. Video Theater 8001: Huber Transfer for Opposition in Thumb Hypoplasia. American Society for Surgery of the Hand Annual Meeting; 2017 Sept 7-9; San Francisco, CA *Awarded Best Video Theater*

Gaston RG, Chadderdon RC, Loeffler BJ, Lewis DR; Odum S. Betamethasone versus Ketorolac Injection for the Treatment of De Quervain's Tenosynovitis: A Double-Blind Randomized Clinical Trial. American Society for Surgery of the Hand Annual Meeting; 2017 Sept 7-9; San Francisco, CA

Gaston RG, Cook S, Tait MA, Bracey JW, Bean B: iPoster 050: High Pressure Water Injection Injuries to the Hand: Perhaps Not a Benign Injury. American Society for Surgery of the Hand Annual Meeting; 2017 Sept 7-9; San Francisco, CA

Gaston RG, Ward AW, Gaul JS, Chadderdon RG, Osier LK, Bracey JW, Odum S. iPoster 038: Thumb Carpometacarpal Arthroplasty in Young Patients. American Society for Surgery of the Hand Annual Meeting; 2017 Sept 7-9; San Francisco, CA

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Gaston RG, Tait M, Bracey JW, Lewis D, Loeffler B. Comparison of early outcomes and complications of capitolunate arthrodesis using screws versus staples. American Association of Hand Surgery Annual Meeting; 2017 Jan 10-14; Waikoloa, HI

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AAHS Annual Meeting; 2017 Jan 10-14; Waikoloa, HI

Gaston RG. E-Poster 151: The Incidence of PTSD and Depression in Adults with Operatively Treated Traumatic Brachial Plexus Palsy; American Society for Surgery of the Hand Annual Meeting; 2016 Sept 28-Oct 1; Austin, TX

Gaston RG, Loeffler BJ, Tait MA, Bracey JW. Video Theater 8052: Targeted Muscle Reinnervation and Its Role in Acute Management of Above Elbow Amputations; American Society for Surgery of the Hand Annual Meeting; 2016 Sept 28-Oct 1; Austin, TX AAOS Annual Meeting; 2017 Mar 14-18; San Diego, CA *Awarded Top Video*

Gaston RG. Video Theater 8046: TFCC All Inside Repair with FasT-Fix; American Society for Surgery of the Hand Annual Meeting; 2016 Sept 28-Oct 1; Austin, TX

Gaston RG, Hamid N, Odum, S: (Poster #P276), "A Validation Study of Patient Reported Outcome Measures for Patients with Upper Extremity Morbidity" American Academy of Orthopaedic Surgeons Annual Meeting; 2016 Feb 29-Mar 5; Orlando, FL

Ode G, Loeffler B, Chadderdon R, Haines N, Scannell B, Patt J, **Gaston G.** Knee Arthroscopy simulation Training: Does it translate to Improved Arthroscopic Proficiency in the Wrist? Electronic abstract presentation: Combined Meeting of the American Association of Hand Surgery Annual and British Society for Surgery of the Hand; 2015 Jan 21-24; Paradise Island, Bahamas Poster presentation: American Society for Surgery of the Hand; 2015 Sept 10-12;Seattle, WA

Robinson E, **Gaston RG.** Surgical Setting and Cost Effectiveness in Trigger Finger Release. E-Poster: American Society for Surgery of the Hand Annual Meeting; 2014 Sept 18-20; Boston, MA

Scannell B, **Gaston RG**, Frick S, Casey V: Adolescent Supracondylar Humerus Fractures: Multi-Center Study of Management and Outcomes. E-Poster presentation: Pediatric Orthopaedic Society of North America Annual Meeting; 2014 Apr 30-May 3; Hollywood CA

Colantoni J, **Gaston RG**, Patt J: Multiple Osteochondromatosis of the Hand- A Natural History Study. Poster presentation and Hand & Wrist Guided Poster Tour: American Academy of Orthopaedic Surgeons Annual Meeting; 2014 Mar 11-15; New Orleans, LA

Brar R, Owen J, Melikian R, **Gaston RG**, Wayne JS, Isaacs JE. Flexor Digitorum Profundus Reconstruction: A Cadaveric Comparison of Three Techniques. Poster presentation: Orthopaedic Research Society Annual Meeting; 2014 Mar 15-18; New Orleans, LA

Isaacs J, Brar R, **Gaston RG**, Melikian R, Owen J, Wayne J: Flexor Digitorum Profundus Avulsions: A Cadaveric Comparison of Three Reconstructive Techniques. Electronic poster presentation: American Association for Hand Surgery Annual Meeting; 2014 Jan 8-11; Kauai, Hawaii

Hemendinger M, **Gaston RG** et al: The Carolinas Neuromuscular/ALS-MDA Center Tissue Biorepository: Current Procedures Versus Published Guidelines. Poster presentation: 23rd International Symposium on ALS/MND, December 2012

Loeffler B, **Gaston RG**, Frick S. Management and Outcomes of Adolescent Supracondylar Humerus Fractures. Poster presentation: Orthopedic Trauma Association Annual Meeting; 2012 Oct 4-6

Kuremsky M, **Gaston RG**: All-Inside Arthroscopic Triangular Fibrocartilage Complex Repair: Relationship of Key Structures. Poster presentation: American Society for Surgery of the Hand Residents and Fellows Conference; 2009 Sept; San Francisco, CA

Gaston RG, Ward A, Krempek J. Intermediate Term Results of Total Wrist Arthroplasty. Poster presentation: American Society for Surgery of the Hand Annual Meeting; 2009 Sept; San Francisco, CA

Koo B, **Gaston RG**, Lourie GM: Relationship of Surgically Repaired Ulnar Collateral Ligament Injury of the Thumb to the Morphology of the Metacarpophalangeal Joint of the Thumb. Poster presentation: American Society for Surgery of the Hand Residents and Fellows Conference; 2009 Sept; San Francisco, CA

Lourie GM, **Gaston RG**, Peljovich AE, Marshall JJ. Anomalous Thenar Musculature Associated with Aberrant Median Nerve Motor Branch Take-off. Poster presentation: American Society for Surgery of the Hand Annual Meeting; 2008 Sept; Chicago, IL

Puckett B, Lourie GM, **Gaston RG**: A New Technique in Managing Recurrent Cubital Tunnel. Poster presentation: American Society for Surgery of the Hand Residents and Fellows Conference; 2008 Sept; Chicago, IL

Gaston RG, Greenberg JA, Hastings H, Mih A, Baltera RM. Clinical Outcomes of Four Corner Versus Isolated Capitulunate Fusions. St. Vincents Research Day; 2007; Indianapolis, IN

Gaston RG, Swick MJ, Floyd WE III, Lourie GM. Pisotriquetral Dysfunction Following Wrist and Intercarpal Arthrodesis. Poster presentation: American Orthopedic Association Annual Meeting; 2007; Asheville, NC
Poster presentation: Georgia Orthopedic Society; 2005; Greensboro, GA

Gaston RG, Peljovich AE, Lourie GM. Radial Collateral Ligament Injuries to the Index Finger Metacarpophalangeal Joint. American Society for Surgery of the Hand Annual Meeting; 2004; New York, NY

Patents

U.S. Patent No: 10,376,389 for Myoelectric Prosthesis and Method, August 13, 2019

Grants

2025 OREF Resident Clinical Scientist Training Resident Grant. Prophylactic Targeted Brain Rehabilitation for Phantom Limb Pain.

Grant \$20,000

Investigators: Maddie Rieker MD, Glenn Gaston MD, Bryan Loeffler MD

2025 AHTF Burkhalter Grant. Development and Validation of a Novel Patient-Reported Outcome Measure for Brachial Plexus Injuries.

Grant: \$5,000

Investigators: Dodson J, Chandler C, Loeffler B, Dy C, Gaston G

2024 AFSH/AHTF Collaboration Grant. At Home VR for Phantom Limb Pain: Optimizing Targeted Brain Rehabilitation Therapy (Award 5086).

Grant: \$20,000

Principle Investigators: Glenn Gaston MD, Bryan Loeffler MD, Ryan Serbin MD, Ty Frix MD, Marci Siebert

NC Idea Grant 2024 (Top 7 Business Ideas for the State of NC). The Use of Virtual Reality to Reduce Phantom Limb Pain

Grant: \$50,000 (June 2024)

Principle Investigators: Glenn Gaston MD, Bryan Loeffler MD, Ryan Serbin MD, Ty Frix MD

The University of Georgia Presidential Interdisciplinary Seed Grant 2024. The use of Virtual Reality to Reduce Phantom Limb Pain.

Grant: \$60,000 (January 2024)

Principle Investigators: Kyle Johnson PhD, Ryan Serbin MD, Bryan Loeffler MD, Glenn Gaston MD

American Foundation for Surgery of the Hand Resident and Fellows Fast track Grant 2023. The use of Virtual Reality to Reduce Phantom Limb Pain.

Grant: \$5,000 (January 2024)

Principle Investigators: Kyle Johnson PhD, Ryan Serbin MD, Bryan Loeffler MD, Glenn Gaston MD

A Multi-Institutional Clinical Trial for PEG Fusion of Peripheral Nerve Injuries Associated with Major Extremity Trauma (METRC)

Grant: \$3,000,000 (May 2020)

Principal Investigators: Gaston RG, Shores J, 2 military MTF's

A Multi-Institutional Prospective Observational Study on Nerve Repair and Reconstruction Associated with Major Extremity Trauma (METRC)

Grant: \$2,491,232 (9/30/2015-9/29/2019)

Principal investigators: Gaston RG, Shores J
2015 Department of Defense Congressionally Directed Medical Research Programs (CDMRP) Peer Reviewed Orthopaedic Research Project (PRORP) Award Recipient

American Society for Surgery of the Hand (2010) Clinical Grant \$20,000
Lymphedema Following Elective Hand and Wrist Surgery in Women Who Are Post Axillary Lymph Node Dissection: A Prospective, Randomized, Clinical Trial
Principal Investigator: Gaston RG

WRIST Study, NIH Funded prospective, multi-center, randomized study looking at the results of ORIF vs. ex-fix vs. CRPP for distal radius fractures in the elderly. Lead investigator is Dr. Kevin Chung. Dr. Glenn Gaston serves as the OrthoCarolina site P.I.

Fred W. Hark and William A. Hark Lectureship Grant (OREF). (2003, 2005)
Glenn Gaston MD for Atlanta Medical Center

Journal of Bone and Joint Surgery Resident Journal Club Grant. (2002)
Glenn Gaston MD for Atlanta Medical Center

Hobbies and Interests

Fly Fishing, Bamboo Fly rod making