

**Lynda J-S Yang, MD, PhD**  
**Clinical Professor**

Department of Neurosurgery  
TC 3552, 1500 E Medical Center Dr, SPC 5338, Ann Arbor, MI 48109-5338  
Phone: Available upon request  
Email: Available upon request

**Education and Training**

**Education**

08/1984-05/1988 BS, Texas A&M University, College Station, TX  
09/1988-05/1997 MD, PhD, Medicine Md Degree, The Johns Hopkins University School of Medicine, Baltimore, MD

**PostDoctoral Training**

07/1997-06/1998 Internship, General Surgery, University of Michigan, Ann Arbor, MI  
07/1998-06/2004 Residency, Neurosurgery (Dr. Julian T Hoff, Chairman), University of Michigan, Ann Arbor, MI  
02/2002-12/2002 Fellowship, Peripheral Nerve Surgery, The Peripheral Nerve Injury and Children's Hand Injury Unit (Mr. Rolfe Birch, Professor, and Mr. Thomas Carlstedt), The Royal National Orthopedic Hospital Trust, Stanmore, Middlesex, United Kingdom  
07/2003-06/2004 Chief Resident, Chief Resident in Neurosurgery, University of Michigan, Ann Arbor, Michigan  
04/2005 Clinical Training, Neonatal Brachial Plexus Palsy (Dr. Willem van Ouwkerk, MD), Vreiste University, Amsterdam, Netherlands  
04/2005 Clinical Training, Neonatal Brachial Plexus Palsy (Dr. Martijn Malessy), Leiden University Medical Center, Leiden, Netherlands  
05/2005-06/2005 Clinical Training, Peripheral Nerve Surgery (Dr. David Kline), Louisiana State University, New Orleans, LA

**Additional Education**

08/2004-03/2005 Laboratory Research, Nerve Regeneration, (Dr. Ronald Schnaar) The Johns Hopkins University School of Medicine, Baltimore, MD

**Certification And Licensure**

**Certification**

01/1999-present National Board of Medical Examiners #40709115  
11/2008-12/2028 American Board of Neurological Surgery - Neurosurgery #28080

**Licensure**

09/2001-01/2020 State of Michigan, Controlled Substance  
09/2001-01/2020 State of Michigan, Medical License  
07/2004-05/2019 State of Michigan, DEA Registration

**Academic, Administrative, Clinical, Research and Military Appointments**

**Academic Appointments**

07/2003-06/2004 House Officer in Neurosurgery, University of Michigan Health System, Ann Arbor, Michigan  
07/2004-06/2005 Lecturer in Neurosurgery, University of Michigan, Ann Arbor  
07/2005-02/2009 Assistant Professor in Neurosurgery, University of Michigan, Ann Arbor, MI  
03/2009-08/2011 Clinical Assistant Professor in Neurosurgery, University of Michigan, Ann Arbor, Michigan  
09/2011-08/2016 Clinical Associate Professor in Neurosurgery, University of Michigan, Ann Arbor, Michigan  
09/2016-present Clinical Professor in Neurosurgery, University of Michigan, Ann Arbor, Michigan

## Clinical Interests

- Disorders of the Brachial Plexus / Surgical Treatment
- Disorders of the Peripheral Nervous System / Surgical Treatment

## Research Interests

- Outcomes of Brachial Plexus Disorders
- Outcomes of Peripheral Nerve Disorders
- Quality of Life of Patients with Brachial Plexus and Peripheral Nerve Disorders
- Basic Mechanisms of Nerve Regeneration
- Effect of Peripheral Nervous System Disorders on the Central Nervous System
- Patient Reported Outcomes in Spine and Peripheral Nerve

## Grants

### Submitted Grants

*Remote assessment and identification of functional arm movement patterns and its use in patients with brachial plexus injury* NIH-DHHS-US- 19-PAF07681

Brown, Susan H; Chung, Kevin Chi; Yang, Lynda Jun-San, PI  
07/2020-06/2025. \$2,548,570

*Examining Common Data Elements For Pediatric Upper Limb Disability* PCORI / NIH

Co-I (Principal Investigator: Jennifer Waljee)  
10/2014-09/2016

### Past Grants

*SCI80063: Nerve Transfers to Improve Upper Extremity Function and Quality of Life in Tetraplegic Patients*

Department of Defense

Co-I (Principal Investigator: Wilson (Zack) Ray)  
07/2019-06/2020. \$739,499

*Assessment of Self-Generated Arm Use Following Surgical Intervention for Brachial Plexus Injuries* BCBSF- 16-PAF00278

Susan H Brown, PI  
08/2016-07/2017. \$74,565

*High-Frequency Nerve Block for Post Amputation Pain: A Pivotal Study* Neuros Medical, Inc.- 14-PAF06833

Co-I without Effort (Principal Investigator: Brummett, Chad Michael)  
09/2014-09/2016. \$582,694 (\$291,348)

*Do patients with neonatal brachial plexus palsy affecting the right arm have a higher prevalence of speech/language delay than those with NBPP affecting the left arm at ages 24 to 36 months? (Faculty Mentor)* Michigan Institute for Clinical & Health Research (PORT)

Other (Principal Investigator: Popadich, Miriana)  
02/2012-01/2014. \$10,000

*Effects of early rehabilitation inclusive of full passive range of motion on shoulder stability in children with neonatal brachial plexus palsy (Faculty Mentor)* Michigan Institute for Clinical & Health Research (PORT)

Other (Principal Investigator: Justice, Denise)  
06/2011-05/2013. \$10,000

*Measuring quality of life in neonatal brachial plexus palsy: a qualitative and quantitative study* Michigan Institute for Clinical & Health Research

Yang, Lynda, PI  
05/2011-05/2012. \$10,000

5 R21 NS062313-02: A MEMS Intracranial Pressure Device for Monitoring Brain Injuries and Disorders NIH-DHHS-US- 09-PAF01011

Co-I with Effort (Principal Investigator: Chronis, Nikolaos)

09/2009-08/2011. \$382,743

*Brain Pressure Sensor - Wireless* University of Michigan Medical Innovation Center Grant

Sylvester, Dennis, Co-PI

09/2009-08/2011. \$10,000

*An outcome study of surgical treatment for ulnar neuropathy at the elbow* Michigan Institute for Clinical & Health Research

Yang, Lynda, PI

09/2009-08/2010. \$25,000

*Creation of DVD for home exercise program for neonatal brachial plexus palsy* Carl's Foundation

Yang, Lynda, PI

01/2007-12/2007. \$20,000

*Brachial plexus DVD Patient Education Advisory Committee*, University of Michigan Health System

Yang, Lynda, PI

01/2007-12/2007. \$10,000

## Honors and Awards

### National

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|------|--|
| 1984 | National Merit Scholarship   |
| 2001 | Dandy Clinical Fellowship Award, American Association of Neurological Surgeons (AANS)                                  |
| 2008 | Fred P Sage Multimedia Award, American Association of Cerebral Palsy and Developmental Medicine (AAPDM) Annual Meeting |
| 2013 | Best Poster Award, American Association of Cerebral Palsy and Developmental Medicine (AAPDM) Annual Meeting            |

### Institutional

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|-----------|--|
| 1984-1986 | AE Martell-IUCCP Award, Dept. of Chemistry, Texas A&M University, College Station, TX  |
| 1984-1988 | President's Endowed Scholarship, Texas A&M University, College Station, TX   |
| 1987-1988 | JB Beckham Award, College of Science, Texas A&M University, College Station, TX  |
| 1988-1990 | Pfeiffer Award, Dept of Pharmacology and Molecular Sciences, The Johns Hopkins University School of Medicine, Baltimore, MD  |
| 1988      | Summa cum laude, Texas A&M University, College Station, TX   |
| 1990-1997 | Medical Scientist Training Program (MSTP), Department of Health and Human Services (NIH Training Grant 2 T32 GM 7309-21), The Johns Hopkins University School of Medicine, Baltimore, MD |
| 1997      | Phi Beta Kappa, The Johns Hopkins University School of Medicine, Baltimore, MD   |
| 1999      | Bronze Beeper Resident Award for Medical Student Teaching, Galens Society, University of Michigan, Ann Arbor, MI   |
| 2003      | Token of Appreciation from Medical Students (TAMS) Award, University of Michigan Medical School, Ann Arbor, MI   |
| 2009      | Clinical Program of the Year (Director), University of Michigan Health System, Ann Arbor, MI   |
| 2009      | Clinician Teaching Award - Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI   |
| 2013      | Clinician Teaching Award - Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI   |
| 2014      | Best Poster (Faculty/Staff) - 2014 MICHR OPIS Symposium, University of Michigan, Ann Arbor, MI   |

## Memberships in Professional Societies

1998-present	Member, Congress of Neurological Surgeons (CNS)
2000-present	Member, Disorders of the Spine and Peripheral Nerves
2008-present	Member, American Association of Neurological Surgeons (AANS)
2011-present	Member, American Society for Peripheral Nerve
2013-present	Member, Sunderland Society for Peripheral Nerve
2014-2015	Member, American College of Surgeons

## Editorial Positions, Boards, and Peer-Review Service

### Study Sections

#### National

2007-2011	Member of the Board of Directors, Sparton Corporation (NYSE:SPA)
2010-2015	Consultant, Neurological Devices Advisory Committee, other Panels of the Medical Devices Advisory Committee and the Center for Devices and Radiological Health (CDRH), Food and Drug Administration (FDA), Silver Spring, MD
2011-2013	American College of Obstetrics and Gynecology Task Force on Neonatal Brachial Plexus Palsy (Ad Hoc)
2013-2015	Chairperson, Neurological Devices Advisory Panel, Center for Devices and Radiological Health (CDRH), Food and Drug Administration (FDA), Silver Spring, MD
2016-2020	Consultant, Orthopedic Devices Advisory Committee, other Panels of the Medical Devices Advisory Committee and the Center for Devices and Radiological Health (CDRH), Food and Drug Administration (FDA), Silver Spring, MD

#### Editorial Boards

2004-2014	Assistant Editor, Peripheral Nerve, Self-assessment in Neurological Surgery (SANS), Congress of Neurological Surgeons (CNS) - Assistant Editor (Peripheral Nerve)
2014-present	Peripheral Nerve, Neurosurgery Journal - Associate Editor (Peripheral Nerve)
2018-2025	Board Member, Journal of Neurosurgery (Parent Group) Editorial Board ( <a href="https://thejns.org/page/JNS_EDBD/editorial-board-journal-of-neurosurgery">https://thejns.org/page/JNS_EDBD/editorial-board-journal-of-neurosurgery</a> )

#### Journal Reviewer

2009-present	Neurosurgery Journal
2010-present	Journal of Neurosurgery
2012-present	Developmental Medicine and Child Neurology

## Teaching

#### Resident/House Officer

02/2009-03/2009	Beejal Amin, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
04/2009-06/2009	Sandeep Bhangoo, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
01/2010-03/2010	Sanjay Patra, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
04/2010-06/2010	Carlos Casas, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
07/2010-09/2010	Victor Chang, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI

04/2011-06/2011	Scott Phillips, MC, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
10/2011-12/2011	Adam Robin, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
04/2012-06/2012	Aqueel Pabaney, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
01/2013-03/2013	Azam Basheer, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
04/2013-06/2013	Rushna Ali, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
07/2014-09/2014	Thomas Noh, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
04/2015-06/2015	Richard Rammo, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
07/2015-09/2015	Rizwan Tahir, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
11/2015-12/2015	Lara Massie, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
07/2016-09/2016	Jessin John, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
04/2017-06/2017	Karam Asmaro, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
10/2017-12/2017	Mohamed Macki, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
04/2018-06/2018	Thomas Zervos, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
10/2018-12/2018	Sameah Haider, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI
04/2019-06/2019	Scott Lim, MD, Henry Ford Neurosurgery Resident (J Rock, MD, Program Director), Neurosurgery Resident Peripheral Nerve Rotation with Yang, LJ-S, MD, PhD, in the Department of Neurosurgery, University of Michigan, Ann Arbor, MI

## Teaching Activity

### National

05/2011	Peripheral Nerve Board Review, AANS Goodman Oral Board Course, Houston, TX
04/2012	Peripheral Nerve Board Review, AANS Goodman Oral Board Course, Houston, TX
05/2013	Peripheral Nerve Board Review, AANS Goodman Oral Board Course, Houston, TX
05/2013	Peripheral Nerve Oral Board Review - Webinar, Congress of Neurological Surgeons
04/2014	Peripheral Nerve Oral Board Review - Webinar, Congress of Neurological Surgeons
05/2014	Infraclavicular Brachial Plexus Anatomy and Exposure, AANS/NREF Peripheral Nerve Course for Residents, American Association of Neurological Surgeons, Baltimore, MD

05/2014	Peripheral Nerve Board Review, AANS Goodman Oral Board Course, Houston, TX
11/2014	Peripheral Nerve Oral Board Review, Congress of Neurological Surgeons Webinar
05/2015	Peripheral Nerve Oral Board Review Webinar, Congress of Neurological Surgeons
05/2015	AANS Goodman Oral Board Review Course - Peripheral Nerve, Houston, TX, USA
08/2015	"Surgical Repair of the Brachial Plexus," American Society of NeuroMonitoring Webinar
03/2016	"Peripheral Nerve Oral Board Review Webinar for Practicing Neurosurgeons," Congress of Neurological Surgeons
10/2016	"Peripheral Nerve Oral Board Review Webinar for Practicing Neurosurgeons," Congress of Neurological Surgeons
11/2016	Peripheral Nerve Board Review, AANS Goodman Oral Board Course, Houston, TX
04/2018-present	Peripheral Nerve Board Review, Webinar, Congress of Neurological Surgeons
05/2018-present	Peripheral Nerve Board Review, AANS Goodman Oral Board Review Course
10/2018-present	Peripheral Nerve Board Review, Webinar, Congress of Neurological Surgeons
05/2019-present	Peripheral Nerve Board Review, AANS Goodman Oral Board Review Course, Phoenix, AZ
08/2019-present	Neurosurgery Spine and Peripheral Nerve Fundamentals for Medical Students, Congress of Neurological Surgeons Webinar Series
10/2019-present	Peripheral Nerve Oral Board Review, Congress of Neurological Surgeons Webinar

### **Regional**

08/2006	Common Entrapment Syndromes: Recognition and Management, Resident Teaching Conference, Dept. of Neurosurgery, Henry Ford Hospitals, Detroit, MI
07/2008	Brachial Plexus Anatomy, Resident Teaching Conference, Dept. of Neurosurgery, Henry Ford Hospitals, Detroit, MI
08/2008	Common Entrapment Syndromes: Recognition and Management, Resident Teaching Conference, Dept. of Neurosurgery, Henry Ford Hospital, Detroit, MI
06/2009	What's New in Peripheral Nerve Surgery, Michigan Association of Neurological Surgeons - Annual Meeting, Boyne Mountain, MI
09/2009	Neonatal Brachial Plexus Palsy, Resident Teaching Conference, Dept. of Neurosurgery, Henry Ford Hospitals, Detroit, MI
09/2009	Differentiating Radiculopathy from Peripheral Entrapment, Resident Teaching Conference, Dept. of Neurosurgery, Henry Ford Hospitals, Detroit, MI
08/2010	Brachial Plexus Anatomy, Brachial Plexus Day Camp/Family Day, Howell Nature Center, Howell, MI
09/2010	Brachial Plexus Anatomy, Resident Teaching Conference, Dept. of Neurosurgery, Henry Ford Hospitals, Detroit, MI
09/2010	Lower Extremity Anatomy and Injury, Resident Teaching Conference, Dept. of Neurosurgery, Henry Ford Hospitals, Detroit, MI
09/2012	Nerve Reconstruction for Neonatal Brachial Plexus Palsy, Mary Freebed Rehabilitation Hospital, Kalamazoo, MI
08/2013	Anatomy of the Brachial Plexus, Brachial Plexus Palsy Family Day and Day Camp, Howell Nature Center, Howell, MI
10/2013	Upper Extremity Entrapment Syndromes, Dept of Neurosurgery, Henry Ford Hospitals, Detroit, MI
04/2015	"Operative Anatomy of the Brachial Plexus," Resident Teaching Conference, Department of Neurosurgery, Henry Ford Health System, Detroit, MI, USA
03/2016	"Basic Science of the Peripheral Nerves," "Clinical Cases," and "Spinal Cord Injury and its Treatment," Resident Conference, Department of Orthopedic Surgery, Western Michigan School of Medicine, Kalamazoo, MI, USA
03/2019-present	Anatomy of Entrapment Neuropathies, Resident Teaching Conference, Department of Neurosurgery, Henry Ford Hospital
03/2019-present	Cadaver Dissection of Peripheral Nerves of the Extremities, Resident Teaching Conference, Department of Neurosurgery, Henry Ford Hospital, Detroit, MI

## **Institutional**

- 01/2005 Obstetric Brachial Plexus Palsy, Resident Teaching Conference, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI
- 05/2005 Obstetric Brachial Plexus Palsy, James Rae Day, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI
- 07/2005 Treatment of Pediatric Brachial Plexus Palsy, Hoff Scientific Day, Dept. of Neurosurgery, University of Michigan, Ann Arbor, MI
- 09/2005 Neurosurgery Residency, Residency Program Open House, University of Michigan Medical School, Ann Arbor, MI
- 10/2005 Neonatal Brachial Plexus Multi-disciplinary Program, Faculty Conference, Depts. of Pediatric Neurology and Neonatology, University of Michigan, Ann Arbor, MI
- 03/2006 Thoracic Spinal Cord Herniation, Neurology Grand Rounds, Dept of Neurology, University of Michigan, Ann Arbor, MI
- 09/2006 Neurosurgery as a Career, MCAS Career Seminar Series in Neurosurgery, University of Michigan School of Medicine, Ann Arbor, MI
- 10/2006 Pediatric Brachial Plexus Palsy, Pediatric Lecture Series, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI
- 11/2006 Brachial Plexus Anatomy, Neurosurgery Resident Teaching Conference, University of Michigan Health System, Ann Arbor, MI
- 02/2007 Brachial Plexus Anatomy and Cadaver Dissection, Resident Teaching Seminar, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI
- 02/2007 Neurosurgery as a Career, MCAS Career Seminar Series, University of Michigan Medical School, Ann Arbor, MI
- 04/2007 Surgery for Pediatric Brachial Plexus Palsy, Occupational Therapy Symposium, University of Michigan Brachial Plexus Program, Ann Arbor, MI
- 04/2007 Brachial Plexus Anatomy, Occupational Therapy Symposium, University of Michigan Brachial Plexus Program, Ann Arbor, MI
- 09/2007 Pearls for Spine and Peripheral Nerve Surgery, Neurology Medical Student Friday Noon Lecture Monthly Series, University of Michigan, Ann Arbor, MI
- 11/2007 Neurosurgery Residency, M1-M2 SCRUBS Surgery Interest Group, University of Michigan Medical School, Ann Arbor, MI
- 01/2008 Brachial Plexus Anatomy and Cadaver Dissection, Resident Conference, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI
- 02/2008 Neurosurgery as a Career, MCAS Career Seminar Series, University of Michigan Medical School, Ann Arbor, MI
- 02/2008 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurology Rotation, University of Michigan Medical School, Ann Arbor, MI
- 03/2008 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurology Rotation, University of Michigan Medical School, Ann Arbor, MI
- 04/2008 Neurosurgery Residency Application Process, Neurosurgery Interest Group, University of Michigan Medical School, Ann Arbor, MI
- 05/2008 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurology Rotation, University of Michigan Medical School, Ann Arbor, MI
- 08/2008 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurology Rotation, University of Michigan Medical School, Ann Arbor, MI
- 01/2009 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurology Rotation, University of Michigan Medical School, Ann Arbor, MI
- 03/2009 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurology Rotation, University of Michigan Medical School, Ann Arbor, MI
- 06/2009 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurology Rotation, University of Michigan Medical School, Ann Arbor, MI
- 07/2009 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurology Rotation, University of Michigan Medical School, Ann Arbor, MI

10/2009 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurosurgery Rotation, University of Michigan Medical School, Ann Arbor, MI

10/2009 Suturing, Neurosurgery Intern Skills Course, Dept. of Neurosurgery, University of Michigan, Ann Arbor, MI

10/2009 Updates in the Treatment of Neonatal Brachial Plexus Palsy, Neonatal Neurology Grand Rounds, University of Michigan, Ann Arbor, MI

01/2010 Basics of Brachial Plexus Palsies, Milestones Teaching Conference, University of Michigan Health System, Ann Arbor, MI

01/2010 Brachial Plexus Anatomy and Cadaver Dissection, Resident Teaching Conference, Dept. of Physical Medicine and Rehabilitation, University of Michigan

02/2010 Clinical Applications of Brachial Plexus Anatomy, Resident Teaching Conference, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI

02/2010 Brachial Plexus Program - An Interdisciplinary Specialty Program, Hospital and Health Center Executive Board, University of Michigan Health System, Ann Arbor, MI

02/2010 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurosurgery Rotation, University of Michigan Medical School, Ann Arbor, MI

03/2010 Applied Clinical Anatomy: The Musculoskeletal System - Lower Extremity Entrapment, M4 Lecture, University of Michigan Medical School, Ann Arbor, MI

03/2010 Applied Clinical Anatomy: The Musculoskeletal System - Upper Extremity Entrapment, M4 Lecture, University of Michigan Medical School, Ann Arbor, MI

04/2010 Surgery for Neonatal Brachial Plexus Palsy, Orthotics Teaching Conference, University of Michigan Health System, Ann Arbor, MI

05/2010 Brachial Plexus Program, Mott Community Board, University of Michigan Health System, Ann Arbor, MI

05/2010 Diagnosis and Treatment of Brachial Plexus and Peripheral Nerve Disorders, Intraoperative Monitoring Teaching Conference, University of Michigan Health System, Ann Arbor, MI

07/2010 Disorders of Spine and Peripheral Nerves, Neurosurgery Medical Student (M3) Lecture, Neurology/Neurosurgery Rotation, University of Michigan Medical School, Ann Arbor, MI

07/2010 Looking Ahead at Peripheral Nerve Surgery, Grand Rounds, Dept. of Orthopedics, University of Michigan, Ann Arbor, MI

09/2010 Suturing, Neurosurgery Intern Skills Course, Dept. of Neurosurgery, University of Michigan, Ann Arbor, MI

01/2011 Nerve Reconstruction for Brachial Plexus Palsy, Resident Teaching Seminar, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI

03/2011 Applied Clinical Anatomy: The Musculoskeletal System - Brachial Plexus Palsy, M4 Lecture. University of Michigan Medical School, Ann Arbor, MI

03/2011 Applied Clinical Anatomy: The Musculoskeletal System - Upper Extremity Entrapment, M4 Lecture, University of Michigan Medical School, Ann Arbor, MI

09/2011 Suturing, Neurosurgery Intern Skills Course, Dept. of Neurosurgery, University of Michigan Ann Arbor, MI

09/2011 Research Updates Neonatal Brachial Plexus Palsy, Ground Rounds, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI, Ann Arbor, MI

09/2012 Suturing, Neurosurgery Intern Skills Course, Dept. of Neurosurgery, University of Michigan, Ann Arbor, MI

10/2012 Looking Ahead in Peripheral Nerve Surgery: Application to Spinal Cord Injury, Main Operating Room Nursing Inservice, University of Michigan Health System, Ann Arbor, MI

01/2013 Nerve Transfers, Resident Teaching Conference, Dept. of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI

03/2013 Applied Clinical Anatomy: The Musculoskeletal System - Upper Extremity Entrapment, M4 Lecture, University of Michigan Medical School, Ann Arbor, MI

03/2013 Brachial Plexus Palsy, Hand Fellowship Conference, University of Michigan, Ann Arbor, MI

04/2013 Looking Ahead in Peripheral Nerve Surgery: Application to Spinal Cord Injury, Main Operating Room Nursing Inservice, University of Michigan Health System, Ann Arbor, MI



04/2013 Nerve Injury and Repair, Hand Fellowship Conference, University of Michigan, Ann Arbor, MI

08/2013 Neonatal Brachial Plexus Palsy, Resident Teaching Conference, Dept of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI

09/2013 Creation of an Interdisciplinary Brachial Plexus Program, Mott Operating Room Nursing Inservice, University of Michigan Health System, Ann Arbor MI

10/2013 Acute Nerve Injury: Nerve Transfers, Hand Fellowship Conference, University of Michigan, Ann Arbor, MI

10/2013 Suturing, Neurosurgery Intern Skills Course, Dept. of Neurosurgery, University of Michigan, Ann Arbor, MI

01/2014 Neurosurgery as a Career, M1/2 Neurosurgery Interest Group, University of Michigan Medical School, Ann Arbor, MI

01/2014 Peripheral Nerve Anatomy, Neurosurgery Resident Teaching Conference, Dept. of Neurosurgery, University of Michigan, Ann Arbor, MI

03/2014 Applied Clinical Anatomy: The Brachial Plexus, M4 Lecture, University of Michigan Medical School, Ann Arbor, MI

03/2014 Brachial Plexus Anatomy Underlies Treatment, Plastic Surgery Resident Teaching Conference, Division of Plastic Surgery, Dept. of Surgery, University of Michigan, Ann Arbor, MI

07/2014 "Intraspinal Schwannoma" at Department of Neurology Rounds

11/2014 "Anatomy Underlies Treatment of Brachial Plexus Palsy" at Department of Physical Medicine and Rehabilitation Resident Conference, University of Michigan, Ann Arbor, MI, USA

02/2015 "Brachial Plexus and Entrapment Neuropathies," Resident Teaching Conference, Department of Neurosurgery University of Michigan, Ann Arbor, MI, USA

03/2015 "Brachial Plexus," Musculoskeletal Anatomy course for M4, School of Medicine, University of Michigan, Ann Arbor, MI, USA

03/2015 "Nerve complications from Clavicle Fractures," Hand Surgery Fellow Conference, University of Michigan, Ann Arbor, MI, USA

04/2015 "Anatomy of the Brachial Plexus and Peripheral Nerves - Cadaver Dissection," Resident Teaching Conference, Department of Neurosurgery University of Michigan, Ann Arbor, MI, USA

04/2015 "Anatomy of the Brachial Plexus and Peripheral Nerves - Cadaver Dissection," Resident Teaching Conference, Department of Physical Medicine & Rehabilitation, University of Michigan, Ann Arbor, MI, USA

10/2015 "Intraoperative Positioning Peripheral Nerve Injuries," Neuroanesthesia Fellow Teaching Conference, Department of Anesthesiology, University of Michigan, Ann Arbor, MI, USA

11/2015 "Brachial Plexus Clinical Cases," Hand Surgery Conference, University of Michigan, Ann Arbor, MI, USA

01/2016 "Anatomy Underlies the Treatment of Brachial Plexus Palsy," Resident Teaching Conference, Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI, USA

02/2016 "Pursuing a Career in Research in Medicine," Research Methods Course, Department of Kinesiology, University of Michigan, Ann Arbor, MI, USA

02/2016 "Brachial Plexus and Entrapment Neuropathies," Resident Teaching Conference, Department of Neurosurgery, University of Michigan, Ann Arbor, MI, USA

02/2016 "Anatomy Underlies the Treatment of Brachial Plexus Palsy," Pain Fellow Teaching Conference, Department of Anesthesiology, University of Michigan, Ann Arbor, MI, USA

03/2016 "The Brachial Plexus," Musculoskeletal Anatomy Course for M4, University of Michigan Medical School

05/2016 Brachial Plexus Injuries and Reconstruction - Surgical Exposure," Resident Teaching Conference, Division of Plastic Surgery, Department of Surgery, University of Michigan, Ann Arbor, MI USA

11/2016	"Intraoperative Positioning Injuries," Neuroanesthesia Fellow Conference, Department of Anesthesiology, University of Michigan, Ann Arbor, MI
03/2017-present	Brachial Plexus, M4 Musculoskeletal Course, University of Michigan Medical School, Ann Arbor, MI
04/2017-present	Brachial Plexus Clinical Cases, Hand Fellow Conference, Depts of Surgery (Plastic Surgery) and Orthopedic Surgery, University of Michigan, Ann Arbor, MI
05/2017-present	Must Knows - Is It Entrapment Neuropathy? or Is It Radiculopathy?, Resident Teaching Conference, Dept of Neurosurgery, University of Michigan, Ann Arbor, MI
08/2017-present	Intraoperative Monitoring for Peripheral Nerve/Brachial Plexus Surgery, Dept of Neurology, University of Michigan, Ann Arbor, MI
11/2017-present	Brachial Plexus, Resident Teaching Conference, Dept of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI
12/2017-present	Anatomy Underlies Treatment of Brachial Plexus Palsy, Fellow Teaching Conference, Dept of Anesthesia, University of Michigan, Ann Arbor, MI
12/2017-present	Positioning Nerve Injuries, Section of Neuroanesthesia, Dept of Anesthesia, University of Michigan, Ann Arbor, MI
02/2018-present	Nerve Surgery for Neonatal Brachial Plexus Palsy- nerve reconstruction strategy, Resident Teaching Conference, Dept of Surgery (Plastic Surgery), University of Michigan, Ann Arbor, MI
03/2018-present	MUST KNOWS – Is It Entrapment Neuropathy? OR Is It Radiculopathy?, Resident Teaching Conference, Dept of Neurosurgery, University of Michigan, Ann Arbor, MI
03/2018-present	Positioning Nerve Injuries (practical aspects), Dept of Obstetrics and Gynecology, University of Michigan, Ann Arbor, MI
05/2018-present	Brachial Plexus Injury, Hand Fellow Conference, Depts of Surgery (Plastic Surgery) and Orthopedics, University of Michigan, Ann Arbor, MI
07/2018-present	Positioning Nerve Injuries, Simulation Model Demonstration, Department of Obstetrics and Gynecology, University of Michigan, Ann Arbor, MI
07/2018-present	Positioning Nerve Injuries, Simulation Model Demonstration, Operating Room Nursing Conference, University of Michigan, Ann Arbor, MI
12/2018-present	Treatment of Brachial Plexus Palsy – Surgical Exposure, Resident Teaching Conference, Dept of Neurosurgery, University of Michigan, Ann Arbor, MI
02/2019-present	Anatomy Underlies Treatment of Brachial Plexus Palsy, M4 Musculoskeletal Anatomy Course, University of Michigan Medical School
04/2019-present	Leaders and the Worst - faculty member, M4 Teaching, University of Michigan Medical School
05/2019-present	Nerve Transfers, Hand Surgery Fellowship Conference Series, Plastic Surgery Division, Dept. of Surgery, University of Michigan, Ann Arbor, MI
08/2019	Neurosurgery Residents Teaching Conference: Peripheral Nerve
12/2019-present	Brachial Plexus Surgical Anatomy, Anesthesia Pain Fellow Conference, Department of Anesthesiology, University of Michigan
02/2020-present	Brachial Plexus Anatomy, 4th year medical student anatomy course, University of Michigan Medical School
02/2020-present	Brachial Plexus Injury, Plastic Surgery Teaching Conference, Department of Surgery, University of Michigan
02/2020-present	Peripheral Nerve Board Review, Department of Neurosurgery Residents Conference, University of Michigan

### **Dissertation Committees**

2013	Mostafa Ghannad-Rezaie, Near Infrared Microsensor for Continuous In-vivo Intraocular and Intracranial Pressure Monitoring, University of Michigan, Ann Arbor, MI, Biomedical Engineering, Committee Member
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### **Committee and Administrative Services**

## Committee Services

### National

2006-2010	Congress of Neurological Surgeons (Scientific Program Committee), Member, Annual Meeting Scientific Program Committee
2008-present	AANS/CNS Disorders of the Spine and Peripheral Nerves (Scientific Program Committee), Member, Annual Meeting Program Committee
2009-2011	AANS/CNS Division of Peripheral Nerves of the Section of Spine and Peripheral Nerves (Secretary), Secretary
2011-2013	AANS/CNS Division of Peripheral Nerves of the Section of the Spine and Peripheral Nerves (Chair-Elect), Chair-Elect
2011-2013	American Society of Peripheral Nerve Surgeons (Nominating Committee Member), Nominating Committee Member
2013-2015	American Society of Peripheral Nerve Surgeons (Executive Council Member-at-large), Member-at-large
2013-2016	AANS/CNS Disorders of the Spine and Peripheral Nerves Executive Committee (Member), Member
2013-2016	AANS/CNS Division of Peripheral Nerves of the Section of Spine and Peripheral Nerves (Chairman), Chairman
2013-present	AANS/CNS Drugs and Devices Committee, Ex-officio member
2017	American Society for Peripheral Nerve - Scientific Program Committee, Chairman

### Regional

2014-2016	Michigan Association of Neurological Surgeons (Executive Board Member-at-large), Member-at-large
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### Institutional

2007-present	University of Michigan, Director, Brachial Plexus and Peripheral Nerve Program
2008-2012	University of Michigan, Senate Assembly
2008-present	Department of Neurosurgery, University of Michigan, Education Committee
2009-2012	University of Michigan, Medical Director, Department of Neurosurgery / Ambulatory Care Operations Committee
2009-2012	University of Michigan, Undergraduate Scholarship Award Committee

## Visiting Professorships and Extramural Invited Presentations

### Visiting Professorships

11/2010	Neonatal Brachial Plexus Palsy - Rosenthal Memorial Lecture, Department of Obstetrics and Gynecology Grand Rounds at Sanaï-Grace Hospital, Wayne State University School of Medicine/Detroit Medical Center, November 2010, Detroit, MI
02/2012	Brachial Plexus Injury and Peripheral Nerve Surgery in the 21st Century: Improving Outcomes with Multidisciplinary Collaborations, Department of Neurosurgery, University of Texas Southwestern Medical Center, February 2012, Dallas, TX
07/2013	Looking Ahead in Peripheral Nerve Surgery: Improving Functional Outcomes via Interdisciplinary Collaborations, Dept of Neurosurgery, The University of Alabama at Birmingham, July 2013, Birmingham, AL
02/2018-present	Advances in Peripheral Nerve Surgery: Improving Functional Outcomes via Interdisciplinary Collaborations; Anatomy Underlies Treatment of Brachial Plexus Palsy; Anatomy of Entrapment Neuropathies; Is It Entrapment Neuropathy? OR Is It Radiculopathy?, Department of Neurosurgery, Yale University, February 2018, New Haven, CT
03/2018-present	Advances in Peripheral Nerve Surgery: Improving Functional Outcomes via Interdisciplinary Collaborations, Department of Neurosurgery, University of Wisconsin, March 2018, Madison, WI

- 09/2019-present Treatment of Brachial Plexus Palsies, Department of Neurosurgery, Oregon Health Sciences University, September 2019, Portland, OR
- 09/2019-present Augusta Klumpke, Oregon Health Sciences University, History of Neurology Lecturer, September 2019, Portland, OR

### **Extramural Invited Presentations**

1. Birth Palsy and Its Surgical Treatment: My Approach, Congress of Mexican Neurosurgeons (Sociedad Mexicana de Cirugía Neurológica, A.C.), July 0008, Puerto Vallarta, Mexico
2. Peripheral Nerve Surgery: 'Must Knows' for Practicing Neurosurgeons, Congress of Neurological Surgeons - Annual Meeting, October 2004, San Francisco, CA
3. Peripheral Nerve Injury, Department of Pharmacology, The Johns Hopkins School of Medicine, October 2004, Baltimore MD
4. Regeneration Gangliosides as Inhibitors of Nerve, Dept. of Neurosurgery, Leiden University Medical Center, April 2005, Leiden, The Netherlands
5. Gangliosides as Inhibitors of Nerve Regeneration, Dept. of Neurosurgery, Leiden University Medical Center, April 2005, Leiden, The Netherlands
6. Surgery for Peripheral Nerve Trauma, Congress of Neurological Surgeons - Annual Meeting, October 2005, Boston, MA
7. Pediatric Peripheral Nerve Injury, Congress of Neurological Surgeons - Annual Meeting, October 2005, Boston, MA
8. Cubital Tunnel and Piriformis Syndrome, American Association of Neurological Surgeons, Annual Meeting, American Association of Neurological Surgeons - Annual Meeting, April 2006, San Francisco, CA
9. Pediatric Brachial Plexus Palsy, Michigan Association of Neurological Surgeons - Annual Meeting, June 2006, Crystal Mountain, MI
10. Carpal Tunnel Release, Congress of Neurological Surgeons - Annual Meeting, October 2006, Chicago, IL
11. Pediatric Brachial Plexus Palsy, Congress of Neurological Surgeons - Annual Meeting, October 2006, Chicago IL
12. Sialidase and Nerve Regeneration, American Society for Peripheral Nerve - Annual Meeting, January 2007, San Juan, Puerto Rico
13. In Vivo Enhancement of Spinal Axon Outgrowth by Sialidase in a Rat Model of Brachial Plexus Avulsion, American Society for Peripheral Nerve - Annual Meeting, January 2007, San Juan, Puerto Rico
14. ABC's of Peripheral Nerve Surgery, Congress of Neurological Surgeons Joint Section of Spine and Peripheral Nerve - Annual Meeting, March 2007, Phoenix, AZ
15. Peripheral Nerve Surgery Must Knows - Is it Entrapment Neuropathy? Or Is it Radiculopathy?, Michigan Association of Neurological Surgeons, June 2007, Mackinac Island, MI
16. Pediatric Brachial Plexus Palsy, Munson Medical Center, August 2007, Traverse City, MI
17. Brachial Plexus Palsy, American Association of Physical Medicine and Rehabilitation - Annual Meeting, September 2007, Boston, MA
18. Peripheral Nerve Expert Panel, Congress of Neurological Surgeons - Annual Meeting, September 2007, San Diego, Ca
19. Treatment of Peripheral Nerve Entrapment, Congress of Neurological Surgeons - Annual Meeting, October 2007, San Diego, CA
20. Laparoscopic Nerve Transection for Post-herniorrhaphy Groin Pain, Kline Festschrift, October 2007, New Orleans, LA
21. Hands-On Peripheral Nerves of the Upper Extremities, American Association of Neurological Surgeons - Annual Meeting, April 2008, Chicago, IL
22. Updates in Peripheral Nerve Surgery, Michigan Association of Neurological Surgeons, June 2008, Mackinac Island, MI
23. Brachial Plexus Palsy Program, Motor City Golf Classic Dinner, University of Michigan, August 2008, Ann Arbor, MI
24. Coffee and Cases, Congress of Neurological Surgeons - Annual Meeting, September 2008, Orlando, FL
25. Surgery for Brachial Plexus Injury - Management of Peripheral Nerve and Brachial Plexus Injury, Congress of Neurological Surgeons - Annual Meeting, September 2008, Orlando

26. Pediatric Brachial Plexus Palsy, American Association for Cerebral Palsy and Developmental Medicine - Annual Meeting, September 2008, Atlanta, Georgia
27. History and Physical Examination - Principles of Peripheral Nerve Surgery, Congress of Neurological Surgeons - Annual Meeting, September 2008, Orlando, FL
28. Diagnosis and Treatment of Neonatal Brachial Plexus Palsy, Michigan Occupational Therapy Association - Annual Meeting, October 2008, Mackinac Island, MI
29. Peripheral Nerve Dissection, Joint Section of Spine and Peripheral Nerve Surgeons - Annual Meeting, March 2009, Phoenix, AZ
30. Hands-On Peripheral Nerve Exposure of the Upper Extremities, American Association of Neurological Surgeons - Annual Meeting, May 2009, San Diego, CA
31. Upper Extremity Peripheral Nerve Entrapments, American Association of Neurological Surgeons - Annual Meeting, May 2009, San Diego
32. What's New in Peripheral Nerve Surgery, Michigan Association of Neurological Surgeons - Annual Meeting, June 2009, Boyne Mountain, MI
33. Paresthesias in the Thigh, American Association of Neurological Surgeons - Annual Meeting, September 2009, San Diego
34. Peripheral Nerve Board Review, Congress of Neurological Surgeons - Annual Meeting, October 2009, New Orleans, LA
35. Coffee and Cases with the Masters, Congress of Neurological Surgeons - Annual Meeting, October 2009, New Orleans, LA
36. Patient Evaluation - Principles of Peripheral Nerve Surgery, Congress of Neurological Surgeons - Annual Meeting, October 2009, New Orleans, LA
37. Supraclavicular Exposure of the Brachial Plexus, AANS/CNS Joint Section of Spine and Peripheral Nerve Surgeons - Annual Meeting, February 2010, Orlando, FL
38. Looking Ahead in Peripheral Nerve Surgery - Improving Outcomes via Interdisciplinary Collaborations, AANS/CNS Joint Section of Spine and Peripheral Nerve Surgeons - Annual Meeting, February 2010, Orlando, FL
39. Hands-on Peripheral Nerve: Practical Course, American Association of Neurological Surgeons - Annual Meeting, May 2010, Philadelphia, PA
40. Updates on Carpal Tunnel Surgery, American Association of Neurological Surgeons - Annual Meeting, May 2010, Philadelphia, PA
41. Looking Ahead in Peripheral Nerve Surgery - Improving Functional Outcomes via Interdisciplinary Collaborations, Michigan Association of Neurological Surgeons - Annual Meeting, June 2010, Traverse City, MI
42. Peripheral Nerve Surgery: The Basics and Beyond, Congress of Neurological of Neurological Surgeons - Annual Meeting, October 2010, San Francisco, CA
43. Patient Evaluation - Peripheral Nerve Board Review, Congress of Neurological Surgeons - Annual Meeting, October 2010, San Francisco, CA
44. Peripheral Nerve Injury and Repair, Pontiac Osteopathic Hospital, November 2010, Pontiac, MI
45. Pediatric Peripheral Nerve Injury and Management, American Society for Peripheral Nerve - Annual Meeting, January 2011, Cancun, Mexico
46. Peripheral Nerve Exposures and Nerve Repair Techniques, Joint Section of Spine and Peripheral Nerve Surgeons - Annual Meeting, March 2011, Phoenix, AZ
47. Peripheral Nerve Injuries, Entrapments and Tumors: Examination and Evaluation, American Association of Neurological Surgeons - Annual Meeting, April 2011, Denver, CO
48. Nerve Reconstruction for Erb's Palsy, World Federation of Neurological Surgeons - Biannual Meeting, September 2011, Porto Galinhas, Pernambuco, Brazil
49. Principles and Practices of Peripheral Nerve, American Congress of Neurological Surgeons - Annual Meeting, October 2011, Washington D.C.
50. Peripheral Nerve Board Review, Congress of Neurological Surgeons - Annual Meeting, October 2011, Washington D.C.
51. Paraspinal Tumors, Joint Section of Spine and Peripheral Nerve Surgeons - Annual Meeting, March 2012, Orlando, FL

52. Infraclavicular Brachial Plexus Exposure - Peripheral Nerve Exposures and Nerve Repair Techniques, Joint Section of Spine and Peripheral Nerve Surgeons - Annual Meeting, March 2012, Orlando, FL
53. Peripheral Nerve Entrapment Syndromes, American Association of Neurological Surgeons - Annual Meeting, April 2012, Miami, FL
54. Evaluation of Patients with Peripheral Nerve Injury, American Association of Neurological Surgeons - Annual Meeting, April 2012, Miami, FL
55. Nerve Reconstruction for Neonatal Brachial Plexus Palsy, Conference on Exploring Shoulder Dystocia and Neonatal Brachial Plexus Injury: Updates on Prevention and Treatment, The Johns Hopkins Hospital, September 2012, Baltimore, MD
56. Timing and Options for Nerve Surgery, Exploring Shoulder Dystocia and Neonatal Brachial Plexus Injury: Updates in Prevention and Treatment, The Johns Hopkins Hospital, September 2012, Baltimore, MD
57. History and Physical Examination - Principles of Peripheral Nerve Surgery, Congress of Neurological Surgeons - Annual Meeting, October 2012, Chicago, IL
58. Peripheral Nerve Board Review, Congress of Neurological Surgeons - Annual Meeting, October 2012, Chicago IL
59. Peripheral Nerve Board Review, Congress of Neurological Surgeons - Annual Meeting, October 2012, Chicago, IL
60. Peripheral Nerve Exposure and Nerve Repair Techniques, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves - Annual Meeting, March 2013, Phoenix, AZ
61. Median Nerve Entrapments, American Association of Neurological Surgeons - Annual Meeting, April 2013, New Orleans, LA
62. Asymptomatic Paraspinal Tumors: Operate or Not, Michigan Association of Neurological Surgeons - Annual Meeting, June 2013, Crystal Mountain, MI
63. Meralgia Paresthetica and Tarsal Tunnel Syndrome, Congress of Neurological Surgeons, October 2013, San Francisco, CA
64. Research Updates in Neonatal Brachial Plexus Palsy: Improving outcomes by studying associated conditions and quality of life, Southeastern European Neurosurgical Society - Annual Meeting, October 2013, Belgrade, Serbia
65. Peripheral Nerve Board Review, Congress of Neurological Surgeons - Annual Meeting, October 2013, San Francisco, CA
66. Nerve Surgery for Neonatal Brachial Plexus Palsy - practical aspects, American Society for Peripheral Nerve, January 2014, Lihue, HI
67. Innovative Technologies in Spine and Peripheral Nerve Surgery - Course Director, Disorders of the Spine and Peripheral Nervous System Annual Meeting, March 2014, Orlando, FL
68. Peripheral Nerve Injuries, Entrapments and Tumors: Examination and Evaluation, American Association of Neurological Surgeons - Annual Meeting, April 2014, San Francisco, CA
69. Peripheral Nerve Entrapment Syndromes: Median Nerve Entrapment, American Association of Neurological Surgeons - Annual Meeting, April 2014, San Francisco, CA
70. **Nerve transfer from ulnar fascicle to musculocutaneous branch to biceps improves supination and potentially external rotation**, Toronto Brachial Plexus Workshop, May 2014, Toronto, Ontario, Canada
71. Hosted Interdisciplinary Conference on "Neonatal Brachial Plexus Palsy: Moving the Science Forward" with M Grimm and B Gonik, Wayne State University, May 2014, Detroit, MI, USA
72. Optimal Treatment of Peroneal Ganglion Cysts, Michigan Association of Neurological Surgeons - Annual Meeting, May 2014, Crystal Mountain, MI
73. Surgical Repair of the Brachial Plexus, American Society of Neurophysiological Monitoring, September 2014, Ann Arbor, MI, USA
74. Peripheral Nerve Board Review - History and Physical Exam, Congress of Neurological Surgeons, October 2014, Boston, MA, USA
75. Peripheral Nerve Anatomy and Surgery (Cadaver Course), Congress of Neurological Surgeons, October 2014, Boston, MA, USA
76. Interdisciplinary Treatment of Brachial Plexus and Peripheral Nerve Disorders, Michigan State Medical Society, October 2014, Detroit, MI, USA

77. Peripheral Nerve Entrapment Syndromes: Diagnosis and Management - Carpal Tunnel Syndrome, Congress of Neurological Surgeons, October 2014, Boston, MA, USA
78. Spine Section Cadaveric Instruction, Congress of Neurological Surgeons - Disorders of the Spine and Peripheral Nerves Annual Meeting, March 2015, Phoenix, AZ, USA
79. Peripheral Nerve Injuries, Entrapments and Tumors: Examination and Evaluation course, American Association of Neurological Surgeons Annual Meeting, May 2015, Washington, DC, USA
80. "When to refer urgently – traumatic brachial plexus and peripheral nerve injury", Michigan Association of Neurological Surgeons Annual Meeting, May 2015, Bay Harbor, MI, USA
81. Imaging Advances Can Affect the Treatment and Surgical Strategy for Neonatal Brachial Plexus Palsy, World Federation of Neurological Surgeons Interim Meeting, September 2015, Rome, Italy
82. Peripheral nerve exposure and anatomy for oral boards- cadaver (Emergency Cases), Congress of Neurological Surgeons Annual Meeting, September 2015, New Orleans, LA, USA
83. Peripheral Nerve Board Review - Moderator and gave "Injury/Repair", Congress of Neurological Surgeons Annual Meeting, September 2015, New Orleans, LA, USA
84. Perinatal/maternal factors associated with persistence (and/or resolution) of Neonatal Brachial Plexus Palsy, German-South American Meeting of Peripheral Nerve Surgery, November 2015, Guenzburg, Germany
85. Neonatal Brachial Plexus Palsy- Management and Outcome, American society for Peripheral Nerve Annual Meeting, January 2016, Scottsdale, AZ, USA
86. Spine/Peripheral Nerve Cadaver Lab, Congress of Neurological Surgeons - Disorders of the Spine and Peripheral Nerves Annual Meeting, March 2016, Orlando, FL, USA
87. AANS/NREF Peripheral Nerve Course for Residents - Lower Extremity Anatomy and Entrapments, American Association of Neurological Surgeons, April 2016, Baltimore, MD, USA
88. Peripheral Nerve Entrapment Syndromes - Ulnar Neuropathy, American Association of Neurological Surgeons Annual Meeting, April 2016, Chicago, IL, USA
89. Peripheral Nerve Injuries, Entrapments and Tumors: Examination and Evaluation - History and Physical Exam, American Association of Neurological Surgeons, April 2016, Chicago, IL, USA
90. Patient Misconceptions and Patient Expectations Concerning Lumbar Degenerative Spinal Disease, James Rae Conference, Department of Physical Medicine and Rehabilitation, University of Michigan, April 2016, Ann Arbor, MI, USA
91. Neurocritical Care and Neurosurgical Emergencies Update - Peripheral Nerve Emergencies, Congress of Neurological Surgeons Annual Meeting, September 2016, San Diego, CA, USA
92. Surgery/ SRS for Benign Tumors Course - Peripheral Nerve Tumors, Congress of Neurological Surgeons Annual Meeting, September 2016, San Diego, CA, USA
93. Peripheral Nerve Board Review - Moderator, Congress of Neurosurgery Annual Meeting, September 2016, San Diego, CA, USA
94. "Brachial plexus surgical anatomy: Supraclavicular and infraclavicular access" and "Nerve transfer for upper plexus lesions.", Copenhagen Peripheral Nerve Surgery Course, September 2016, Copenhagen, Denmark, EU
95. Diagnosis and General Management of Neonatal Brachial Plexus Palsies, World Federation of Neurological Surgeons THEORETICAL & PRACTICAL INTERNATIONAL COURSE IN PERIPHERAL NERVE & BRACHIAL PLEXUS SURGERY, November 2016, Leon, Spain, EU
96. Primary Surgical Strategy for Neonatal Brachial Plexus Palsies, World Federation of Neurological Surgeons THEORETICAL & PRACTICAL INTERNATIONAL COURSE IN PERIPHERAL NERVE & BRACHIAL PLEXUS SURGERY, November 2016, Leon, Spain, EU
97. Treatment of Brachial Plexus Palsy - Surgical Exposure and Nerve Reconstruction, Copenhagen Peripheral Nerve Surgery Course 2017, Dept of Neurosurgery, Copenhagen University Hospital, September 2017, Copenhagen, Denmark
98. Advances in Peripheral Nerve Surgery: Improving Outcomes Via Interdisciplinary Collaboration, INMED - Institute for International Medicine Neuro Conference, October 2017, St. Luke's Marion Bloch Neuroscience Institute, Kansas City, MO
99. Nerve transfers for obstetric brachial plexus palsy, 2nd German-South American Meeting on Peripheral Nerve Surgery, November 2017, Rio de Janeiro, Brazil
100. Anatomy of the Brachial Plexus and Peripheral Nerves, World Federation of Neurological Surgeons Nursing Symposium, November 2017, Belgrade, Serbia

101. Anatomy and Surgical Approaches to the Brachial Plexus, World Federation of Neurological Surgeons - 2nd Theoretical, Practical & Hands-on International Course in Peripheral Nerve and Brachial Plexus Surgery, November 2017, Belgrade, Serbia
102. Intraoperative Monitoring for Peripheral Nerve/Brachial Plexus Surgery, The American Society for Neurophysiological Monitoring Annual Meeting, February 2018, Orlando, FL
103. Nerve Transfers for Neonatal Brachial Plexus Palsy (focus on Shoulder), The Sunderland Society Biennial Meeting, March 2018, Stanford University, Palo Alto, CA
104. Impacts of medical education materials on families of infants with Neonatal Brachial Plexus Palsy (speaker, Denise Justice, OTRL), World Federation of Occupational Therapy Annual Meeting, May 2018, Cape Town, South Africa
105. Management and Rehabilitation After Adult and Pediatric Brachial Plexus Injury, Mary Freebed Rehabilitation Hospital, August 2018, Grand Rapids, MI
106. Distal Upper Extremity Nerve Transfers, Copenhagen Peripheral Nerve Surgery Course 2018, Copenhagen University Hospital, September 2018, Copenhagen, Denmark
107. Nerve Reconstruction for Neonatal Brachial Plexus Palsy- practical aspects (when and why to operate), World Federation of Neurological Surgeons - 3rd Theoretical & Practical International Course in Brachial Plexus and Peripheral Nerve Surgery, September 2018, Frankfurt, Germany
108. Nerve Surgery for Neonatal Brachial Plexus Palsy- practical aspects, Congress of Neurological Surgeons Annual Meeting, M08 Title: Management of Brachial Plexus Injuries: from Birth to Adult, October 2018, Houston, TX
109. Radial Nerve Entrapment, Congress of Neurological Surgeons Annual Meeting, Luncheon Seminar W26: Peripheral Nerve Entrapment Syndromes: Diagnosis and Management, October 2018, Houston, TX
110. Review of Anatomy  
Pain From Peripheral Nerves?  
OR  
Spinal Nerve Roots?, 1st INTERNATIONAL CONFERENCE ULTRASOUND IN PAIN MEDICINE, NEUROMODULATION & REGENERATION MEDICINE, October 2018, Bengaluru, India
111. Evaluation of Function after Brachial Plexus Injury, Remote Assessment by Accelerometry, Plastic Surgery Dept., Chang Gung Memorial Hospital, March 2019, Taipei, Taiwan
112. Surgical Treatment of Lumbar Stenosis, Mary FreeBed Hospital, April 2019, Grand Rapids, MI
113. Neonatal Brachial Plexus Palsy - Evaluation of Patients, Narakas International Brachial Plexus Meeting, May 2019, Leiden, NL
114. Chang Gung and U Michigan Collaborative Study: Taiwan-Michigan Accelerometry Study, Chang Gung Memorial Hospital, Dept of Plastic Surgery, June 2019, Taipei, Taiwan
115. Advances in Peripheral Nerve Surgery, Department of Neurosurgery, Taiwan Veterans Hospital, June 2019, Taipei, Taiwan
116. Nerve Transfers: A General Review and Potential Uses After Spine and Nerve Root Injuries, Congress of Mexican Neurosurgeons (Sociedad Mexicana de Cirugia Neurologica, A.C.), July 2019, Puerto Vallarta, Mexico
117. How to Evaluate Babies with Obstetric Brachial Plexus Palsies, Congress of Mexican Neurosurgeons (Sociedad Mexicana de Cirugia Neurosurgica, A.C.), July 2019, Puerto Vallarta
118. Surgery for Cervical Stenosis, Cervical Spondylotic Myelopathy, Mary FreeBed Rehabilitation Hospital, August 2019, Grand Rapids, MI
119. Surgery for Neonatal Brachial Plexus Palsies, American Association of Neurological Surgeons Annual Meeting, August 2019, Anaheim, CA
120. Neonatal Brachial Plexus Palsy, World Federation of Neurological Surgeons Peripheral Nerve Course, 4th annual, September 2019, Buenos Aires, Argentina
121. Brachial Plexus Surgical Anatomy, Copenhagen Peripheral Nerve Surgery Course, September 2019, Copenhagen, Denmark
122. Peripheral Nerve Entrapment Syndromes, Congress of Neurological Surgeons Annual Meeting, October 2019, San Francisco, CA
123. Should we use ancillary studies (EDX and MRI) to determine treatment/surgery for NBPP or not?, German South American Peripheral Nerve Meeting, October 2019, Berlin, Germany
124. Spinal Accessory Nerve, New Orleans Peripheral Nerve Dissection Course - The Kline Legacy, February 2020, New Orleans, LA



125. Lateral Femoral Cutaneous Neuropathy, Congress of Neurological Surgeons Grand Rounds Webinar Series, May 2020, Schaumburg, IL
126. Neonatal Brachial Plexus Palsy - Surgical Strategies, Brazilian Society of Neurosurgery Meeting (Virtual), May 2020, Brazil
127. Pearls for Treatment of Brachial Plexus Palsy,, New Advances in Brachial Plexus Reconstruction Seminar, Hospital General Dr. Manuel Gea Gonzalez · Plastic and Reconstructive Surgery, host Alex Cardenas, June 2020, Mexico City, MX

### **Other**

1. Nerve Surgery for Neonatal Brachial Plexus Palsy, University of Michigan Orthotics and Prosthetics Center Centennial Celebration and Educational Seminar, University of Michigan, October 2012, Ann Arbor, Michigan
2. Neonatal Brachial Plexus Palsy: Moving the Science Forward (Conference Organizer), Wayne State University and the University of Michigan (sponsored by NIH-R15 Award), May 2014, Detroit, MI
3. Hosted the Sunderland Society International Meeting with John McGillicuddy, MD, Sunderland Society for Peripheral Nerve, June 2015, Ann Arbor, MI, USA
4. Neonatal Brachial Plexus Palsy:Diagnosis and Management, Neonatology Conference, University of Michigan, November 2015, Ann Arbor, MI, USA

### **Seminars**

1. Updates in Neonatal Brachial Plexus Palsy Research, Neonatal Neurology Grand Rounds, University of Michigan, March 2014, Ann Arbor, MI
2. Positioning Nerve Injuries(practical aspects), Dept of Anesthesia, University of Michigan, April 2018, Ann Arbor, MI
3. Nerve Reconstruction after Peripheral Nerve/Brachial Plexus Injury, Grand Rounds, Department of Physical Medicine and Rehabilitation, University of Michigan, June 2018, Ann Arbor, MI
4. Intraoperative Neuromonitoring in Peripheral Nerve Surgery, Introoperative Neuromonitoring Workshop, Department of Kinesiology, University of Michigan, June 2018, Ann Arbor, MI
5. Electrodiagnostics in Brachial Plexus Clinic, Electrodiagnostics Conference, Department of Neurology, University of Michigan, August 2018, Ann Arbor, MI
6. Treatment ("Management") of Neonatal Brachial Plexus Palsy - practical aspects, Grand Rounds, Dept of Obstetrics and Gynecology (Maternal-Fetal Medicine), University of Texas Health Science Center, October 2018, Houston, TX
7. Chang Gung and U Michigan Collaborative Study: Taiwan-Michigan Accelerometry Study, Teaching Conference, Dept of Plastic Surgery, Chang Gung Hospital, November 2018, Taipei, Taiwan
8. Peri-operative Nerve-related Complications, Department of Physical Medicine and Rehabilitation, University of Michigan, September 2019, Ann Arbor, MI
9. Is it NBPP or is it CP or Peripheral vs Central?& Updates on MFM/OB – Neurosurgery Collaborative Research, Department of Neonatology, University of Michigan, December 2019, Ann, Arbor, MI

### **Patents**

#### **Granted**

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| 02/2007 | Compositions and methods for enhancing axon regeneration, USPA 20070031397-A1, Co-inventor, Submitted on 05/2006 |
| 09/2000 | Compounds for stimulating nerve growth, US 06114126, Co-inventor, Submitted on 06 /1998                          |
| 10/1999 | Compounds for stimulating nerve growth, US 05962434, Co-inventor, Submitted on 08 /1996                          |

### **Bibliography**

#### **Peer-Reviewed Journals and Publications**

1. Gordon GB, Prochaska HJ, Yang LY: Induction of NAD(P)H:quinone reductase in human peripheral blood lymphocytes. Carcinogenesis 12(12): 2393-6, 1991. PM1660793

2. Yang LJ, Zeller CB, Shaper NL, Kiso M, Hasegawa A, Shapiro RE, Schnaar RL: Gangliosides are neuronal ligands for myelin-associated glycoprotein. *Proc. Natl. Acad. Sci. U.S.A.* 93(2): 814-818, 1996. PM8570640
3. Schnaar RL, Longo P, Yang LJ, Tai T: Distinctive ganglioside patterns revealed by anti-ganglioside antibody binding to differentiating CG-4 oligodendrocytes. *Glycobiology* 6(3): 257-263, 1996. PM8724133
4. Yang LJ, Zeller CB, Schnaar RL: Detection and isolation of lectin-transfected COS cells based on cell adhesion to immobilized glycosphingolipids. *Anal. Biochem.* 236(1): 161-167, 1996. PM8619482
5. Collins BE, Yang LJ, Mukhopadhyay G, Filbin MT, Kiso M, Hasegawa A, Schnaar RL: Sialic acid specificity of myelin-associated glycoprotein binding. *J. Biol. Chem.* 272(2): 1248-1255, 1997. PM8995428
6. Collins BE, Yang LJ, Schnaar RL: Lectin-mediated cell adhesion to immobilized glycosphingolipids. *Meth. Enzymol.* 312: 438-446, 2000. PM11070892
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2. Gonzales, T, Rasmusse, L, Yang, LJS, Brown, SHC: Postural control deficits in adults with upper limb peripheral nerve injury: A preliminary investigation *Clinical Rehabilitation.* (Submitted)
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5. Brandon W. Smith, MD,1 Kate W.-C. Chang, MS, MA,1 Hemant A. Parmar, MBBS,2 Mohannad Ibrahim, MD,2 Lynda J.-S. Yang, MD, PhD1: MRI Evaluation of Nerve Root Avulsion in Neonatal Brachial Plexus Palsy: Understanding the Presence of Isolated Dorsal/Ventral Rootlet Disruption Journal of Neurosurgery: Pediatrics. (Submitted)
6. Leena M. Narendran, DNB1  
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## Non-Peer-Reviewed Journals and Publications

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2. Neonatal Brachial Plexus Palsy (NBPP), Anatomy and Clinical Presentation of Neonatal Brachial Plexus PalsyThe American College of Obstetricians and Gynecologists (ACOG) Task Force on Neonatal Brachial Plexus Palsy (including Yang LJ-S): Anatomy and Clinical Presentation of Neonatal Brachial Plexus Palsy The American College of Obstetricians and Gynecologists Task Force 1: 51-64, 2014.
3. Neonatal Brachial Plexus Palsy (NBPP), Anatomy and Clinical Presentation of Neonatal Brachial Plexus PalsyThe American College of Obstetricians and Gynecologists (ACOG) Task Force on Neonatal Brachial Plexus Palsy (including Yang LJ-S): Patterns of Neonatal Brachial Plexus Palsy and Outcomes The American College of Obstetricians and Gynecologists Task Force 1: 65-72, 2014.
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## Book Chapters

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