

curriculum vitae

Aaron A. Cohen-Gadol, MD, MSc, MBA

(orcid.org/0000-0002-4946-1524) | (@AaronCohenGadol)

8631 W. 3rd Street Suite 815E, Los Angeles, California 90048

(317) 362-8760 (cell) | (310) 626-1312 (office)

cohen@nsatlas.com

acohenmd@gmail.com

Founder and President

Atlas Meditech

Neurosurgical Atlas

ATLAS Institute of Brain and Spine

Associate Editor-in-Chief

Neurosurgical Focus (Journal of Neurosurgery)

Neurosurgical Focus: Video

Member, American and World Academy of Neurological Surgery and
“Senior” Society of Neurological Surgeons

**Recipient of the Vilhelm Magnus medal, the highest recognition
awarded by the Scandinavian countries for outstanding global
neurosurgical contribution. Only 13 medals awarded during the past
century.**



EDUCATION

UNDERGRADUATE		
Institution	Degree	Dates Attended
University of California at San Diego, La Jolla, CA	BA, Biomedical Engineering Minor in Jazz Music/Ensemble	1990–1993

GRADUATE		
Keck School of Medicine of University of Southern California, Los Angeles, CA	MD with Highest Distinction	1993–1997
Mayo Graduate School, Rochester, MN	Master of Clinical Research	2003–2005
Kelley School of Business	Master of Business Administration (Business of Medicine)	2016–2018
	Lean/Six Sigma Green Belt, Certified by the American Society for Quality	2018

RESIDENCY TRAINING		
University of California at San Diego, La Jolla, CA	Internship	1997–1999
Mayo Clinic, Rochester, MN	Neurological Surgery Residency	1999–2002
Mayo Clinic, Rochester, MN	Chief Resident Associate	2003–2005

FELLOWSHIPS		
Yale University, New Haven, CT	Epilepsy Surgery and Brain Mapping/Tumor Surgery	2002–2003
University of California at Los Angeles, Los Angeles, CA	Stereotactic/Functional Neurosurgery, Radiosurgery	2005–2005
University of Arkansas Medical Sciences Center, Little Rock, AR	Skull Base and Cerebrovascular Surgery	2005–2006

APPOINTMENTS

ACADEMIC		
Institution	Rank/Title	Inclusive Dates
University of California at Los Angeles, Los Angeles, CA	Instructor in Neurosurgery, Attending Neurosurgeon (fellowship)	2005–2005
University of Arkansas Medical Sciences Center, Little Rock, AR	Instructor in Neurosurgery, Attending Neurosurgeon (fellowship)	2005–2006
Department of Neurological Surgery, Indiana University School of Medicine	Clinical Assistant Professor	2008–2010
Department of Neurological Surgery, Indiana University School of Medicine	Assistant Professor of Neurological Surgery	2010
Department of Neurological Surgery, Indiana University School of Medicine	Associate Professor (tenure track)	2010–2015
Department of Neurological Surgery, Indiana University School of Medicine	Associate Professor (tenured)	2015–2024
Department of Neurological Surgery, Indiana University School of Medicine	Professor	2015–2024
Department of Otolaryngology–Head and Neck Surgery	Adjunct Professor	2015–2024
Department of Veterinary Clinical Sciences–Neurosurgery, Purdue University	Adjunct Professor	2015–2024

Keck School of Medicine of USC Department of Neurological Surgery	Clinical Professor	2024-2025
Cedars-Sinai Medical Center	Attending Neurosurgeon	2025-
Providence St John's Health Center	Attending Neurosurgeon	2025-

NONACADEMIC		
IU Health IU/Methodist/Riley Hospitals, Indianapolis, IN	Active	2006–2024
St Vincent Hospital, Indianapolis, IN	Active	2006–2019
St Francis Hospital, Indianapolis, IN	Courtesy	2006–2019
Community Hospital East/North, Indianapolis, IN	Courtesy	2006–2019
Wishard Hospital, Indianapolis, IN	Active	2011–2024
Richard L. Roudebush VA Medical Center	Courtesy	2011–2024
Keck Medical Center	Active	2024-2025
Los Angeles General Medical Center	Active	2024-Present

LICENSURE, CERTIFICATION, SPECIALTY BOARD STATUS

California	A68020	1999–present
Minnesota	42401	2000–2005
Arkansas	E-4433	2005–2010
Indiana	01062386A	2005–present
Diplomate, National Board of Medical Examiners		Parts I, II, III completed 1998
Diplomate, American Board of Neurological Surgery	<i>98th percentile–6th highest score nationally</i>	Completed 2009 written exam: 662

PROFESSIONAL ORGANIZATION MEMBERSHIPS

American Association of Neurological Surgeons	1998–present
Congress of Neurological Surgeons	1998–present
Council of State Neurosurgical Societies	2001–present
American Epilepsy Society	2001–present
International Brain Mapping and Intra-operative Surgical Planning Society	2002–present
The Hemispherectomy Foundation	2002–present
World Federation of Neurosurgical Societies	2002–present
Sigma Xi (The Scientific Research Society)	2005–present
National Brain Aneurysm Foundation, Advisory Board	2006–present
Indiana State Medical Association	2006–present
Trigeminal Neuralgia Association	2008–present
The Pituitary Society	2008–present
Pituitary Network Association	2008–present
Acoustic Neuroma Association	2009–present
American Academy of Neurological Surgery	2014–present
North American Skull Base Society	2016–present
“Senior” Society of Neurological Surgeons	2019–present

PROFESSIONAL HONORS AND AWARDS

RESEARCH AWARDS		
Physician abstract award Title: Incidence and Epidemiology of Aneurysmal Subarachnoid Hemorrhage in 12 Midwest Communities	St Vincent Health Research Symposium	2012
First place award winner Keller Lectureship in Surgical Neuroanatomy and Research Title: Contralateral Transfalcine Transprecuneous Approach to the Peri-Atrial Region	Mayfield Clinic	2013
Jose Biller Faculty Teaching Award	IU Department of Neurosurgery	2017
The Rhoton Award Title: Endoscopic Endonasal Approach to the Ventral Petroclival Fissure: Anatomic Findings and Surgical Techniques	North American Skull Base Society	2022

SERVICE AWARDS		
Health Care Hero–In Advancements of Health Care Category (<i>chosen among all physicians in the state of Indiana</i>)	<i>Indianapolis Business Journal</i>	2009
The Hemispherectomy Foundation Humanitarian Award	Hemispherectomy Foundation	2010
Surgeon of the Year	Salient Surgical Technologies	2010
Patients' Choice Award	PatientsChoice.org	2010
Indianapolis Top Doctors	Sponsored by <i>Indianapolis Monthly</i> magazine; based on ratings by other doctors	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
2017 Chuckstrong Hall of Fame	Indiana University Simon Cancer Center recognition for research in brain tumors	2017
Kuo York Chynn Neuroradiology Research Award	Radiological Soc. of North Am	2021

OTHER		
Clinician Scholar Award	Mayo Clinic	2003
Fellow	Council of State Neurosurgical Societies	2004
Scholarly Achievement Award	Mayo Clinic	2005

PROFESSIONAL DEVELOPMENT

Course/Workshop Title	Provider	Date
Microvascular Surgical Techniques	Mayo Clinic, Rochester, MN	2004
Gamma Knife Training Course–Perfection Update	UPMC Pittsburgh, PA	2014
Advanced Endoscopic Endonasal Surgery of the Skull Base	UPMC Pittsburgh, PA	2016

TEACHING

POSTGRADUATE				
Short Title	Format	Role	Term	Enrollment
Brain Mapping	Indiana University Health Neurophysiology Program	Instructor	2007	Neurophysiologists
Nuances of Technique and Complication Avoidance in Cerebrovascular Neurosurgery	AANS Practical Anatomy Workshop, St Louis, MO	Course Director	2009	Senior Residents
Microsurgical/Skull Base Dissection Laboratory and IU Dept of Neurosurgery	Cadaveric Dissection and Didactic Sessions	Director	2010–2024	Neurosurgery Residents

CONTINUING EDUCATION: *The Neurosurgical Atlas* Grand Rounds Video Web conferences (<http://www.neurosurgicalatlas.com/grand-rounds>). These Web-based teaching forums are open to all US and international neurosurgeons/residents. These 240 webinars provide a discussion of technical nuances by world experts for complex cranial operations.

Title	Author(s)/Speaker(s)	Date
<i>Olfactory Groove and Tuberculum Sella Meningiomas</i>	Robertson J, Couldwell WT, and Cohen-Gadol AA	Oct 16, 2010
<i>Anterior Communicating Artery Aneurysms</i>	Samson D and Cohen-Gadol AA	Jan 30, 2011
<i>Microvascular Decompression Surgery for Trigeminal Neuralgia</i>	Jannetta P and Cohen-Gadol AA	Feb 19, 2011
<i>Microvascular Decompression Surgery for Hemifacial Spasm</i>	Tew J and Cohen-Gadol AA	Mar 15, 2011
<i>Mini Open Transpedicular Thoracic Corpectomy</i>	Chou D and Mobasser JP	Apr 25, 2011
<i>Parasagittal and Parafalcine Meningiomas: Managing Difficult Cases</i>	McDermott M and Cohen-Gadol AA	Apr 27, 2011
<i>Posterior Fossa Exploratory Surgery for Geniculate Neuralgia</i>	Couldwell W and Cohen-Gadol AA	May 16, 2011
<i>Modified Orbitozygomatic Craniotomy and Extradural Clinoidectomy</i>	Delashaw J and Cohen-Gadol AA	May 17, 2011
<i>Microvascular Decompression Surgery for Glossopharyngeal Neuralgia</i>	Couldwell W and Cohen-Gadol AA	May 30, 2011
<i>Minimally Invasive Spinal Cord Tumor Resection</i>	Fessler RG and Mobasser JP	Jun 10, 2011
<i>Surgical Strategies for Resection of Medial Sphenoid Wing Meningiomas</i>	Delashaw J and Cohen-Gadol AA	Jun 28, 2011
<i>To Operate or Not: Management of Arachnoid and Pineal Cysts</i>	Maher C and Cohen-Gadol AA	Jun 29, 2011
<i>Resection of Spinal Cord Hemangioblastomas</i>	McCormick P and Cohen-Gadol AA	Jul 10, 2011
<i>To Operate or Not: When Is Surgery Necessary for Chiari Malformation</i>	Proctor M, Maher C, and Cohen-Gadol AA	Jul 10, 2011
<i>The Oral Boards Part 1: Pearls for Success and Review of Cases</i>	Couldwell W and Cohen-Gadol AA	Jul 24, 2011
<i>STA-MCA Bypass: Nuances of Technique</i>	Morcos J and Cohen-Gadol AA	Jul 24, 2011
<i>Maintenance of Certification (MOC): Details You Need to Know</i>	Oyesiku N, Barrow D, and Cohen-Gadol AA	Aug 19, 2011
<i>Microsurgical Clip Ligation of Middle Cerebral Artery Aneurysms</i>	Lawton M and Cohen-Gadol AA	Aug 25, 2011
<i>The Oral Boards Part 2: Pearls for Success and Review of Cases</i>	Barrow D, Oyesiku N, and Cohen-Gadol AA	Aug 26, 2011

<i>Endoscopic Transnasal Resection of Pituitary Tumors</i>	Schwartz T and Cohen-Gadol AA	Sep 23, 2011
<i>Transforaminal Lumbar Interbody Fusion (TLIF)</i>	Branch C and Mobasser JP	Sep 23, 2011
<i>Concussion and Sports: Useful Prevention Information for Your Community</i>	Rosseau G and Cohen-Gadol AA	Oct 16, 2011
<i>Image-Guidance in Spinal Surgery: Indications and Technical Pearls</i>	Nottmeier E and Mobasser JP	Oct 26, 2011
<i>Endoscopic Craniofacial Resection of Anterior Skull Base Tumors</i>	Coppa ND and Cohen-Gadol AA	Oct 27, 2011
<i>Carotid Endarterectomy: Technical Pearls and Pitfalls</i>	Harbaugh R and Cohen-Gadol AA	Oct 28, 2011
<i>The Oral Boards Review: Peripheral Nerve Tumors and Neuropathic Pain</i>	Spinner R and Cohen-Gadol AA	Nov 1, 2011
<i>The Oral Boards Review: Peripheral Nerve Entrapment Syndromes</i>	Spinner R and Cohen-Gadol AA	Nov 1, 2011
<i>The Oral Boards Review: Principles of Peripheral Nerve Surgery</i>	Spinner R and Cohen-Gadol AA	Nov 1, 2011
<i>Comprehensive Management of Pituitary Tumors</i>	Rosseau G and Cohen-Gadol AA	Nov 9, 2011
<i>Pituitary Tumors: Diagnosis and Transsphenoidal Resection</i>	Chandler W and Cohen-Gadol AA	Nov 10, 2011
<i>Transsphenoidal Surgery: Complication Avoidance and Management</i>	Chandler W and Cohen-Gadol AA	Nov 11, 2011
<i>Management of Neurovascular Headaches</i>	Rosen N and Cohen-Gadol AA	Nov 13, 2012
<i>Supratentorial Arteriovenous Fistulas: Technique for Microsurgical Ligation</i>	Delashaw J and Cohen-Gadol AA	Nov 22, 2011
<i>Infratentorial Arteriovenous Fistulas: Technique for Microsurgical Ligation</i>	Delashaw J and Cohen-Gadol AA	Nov 22, 2011
<i>Medical Liability and the Neurosurgeon: How to Stay Safe</i>	Scarrow A and Cohen-Gadol AA	Nov 27, 2011
<i>Principles of Radiosurgery: Methods and Outcomes</i>	Sheehan J and Cohen-Gadol AA	Dec 10, 2011
<i>Transpetrosal Approach: Indications and a Video Review of Cases</i>	Bambakidis N and Cohen-Gadol AA	Dec 15, 2011
<i>The Grand Rounds: Clip Ligation of Posterior Circulation Aneurysms</i>	Bambakidis N and Cohen-Gadol AA	Dec 15, 2011
<i>How to Evaluate a Neurosurgery Practice Opportunity</i>	Rosman J and Cohen-Gadol AA	Dec 19, 2011
<i>Endoscopic Skull Base Surgery</i>	Schwartz T and Cohen-Gadol AA	Jan 14, 2012
<i>Causes for Shunt Malfunction and How to Troubleshoot Them</i>	Boaz J and Cohen-Gadol AA	Feb 1, 2012
<i>Typical and Mysterious Causes for Shunt Malfunction and How to Troubleshoot Them</i>	Boaz J and Cohen-Gadol AA	Feb 1, 2012
<i>The Grand Rounds I: Conquering Technical Challenges in Tumor Surgery</i>	Couldwell WT and Cohen-Gadol AA	Feb 2, 2012
<i>Endoscopic Skull Base Surgery: Transclival, Transmaxillary and Transodontoid Approaches</i>	Schwartz TH and Cohen-Gadol AA	Mar 2, 2012
<i>The Grand Rounds II: Complex Vascular Cases—Technical Pearls</i>	Couldwell WT and Cohen-Gadol AA	Mar 3, 2012
<i>Giant Aneurysms: Techniques and Tenets for Ligation</i>	Lawton MT and Cohen-Gadol AA	Mar 4, 2012
<i>Hemispherotomy Techniques: Pearls and Pitfalls</i>	Rutka JT and Cohen-Gadol AA	Apr 3, 2012
<i>Clip Ligation of Posterior Communicating Artery Aneurysms</i>	Thompson G and Cohen-Gadol AA	Apr 3, 2012
<i>AANS Operative Nuances 3D Session During Miami Meeting—Part I</i>	Spetzler, Steinberg, Couldwell, Lawton and Cohen-Gadol	May 4, 2012
<i>AANS Operative Nuances 3D Session During Miami Meeting—Part II</i>	Spetzler, Steinberg, Couldwell, Lawton, and Cohen-Gadol	May 4, 2012
<i>AANS Operative Nuances 3D Session During Miami Meeting—Part III</i>	Spetzler, Steinberg, Couldwell, Lawton, and Cohen-Gadol	May 4, 2012
<i>Spinal Deformity: Evaluation and Surgical Treatment—Part I</i>	Koski T and Mobasser JP	Jun 4, 2012

<i>Spinal Deformity: Evaluation and Surgical Treatment—Part II</i>	Koski T and Mobasser JP	Jun 4, 2012
<i>Management of Complex Aneurysms: Clip Reconstruction and Bypass Techniques</i>	Sekhar L and Cohen-Gadol AA	Jun 5, 2012
<i>Implantation of Intrathecal Drug Infusion Pumps: Technical Nuances</i>	Turner M	Jul 4, 2012
<i>Patient Selection for Surgical Treatment of Spasticity</i>	Turner M	Jul 4, 2012
<i>Principles of CPT Coding for Cranial Procedures and E&M Coding</i>	Pollock K and Cheng J	Jul 5, 2012
<i>Troubleshooting the SynchroMed Infusion Pump</i>	Turner M	Jul 4, 2012
<i>Principles of CPT Coding for Spinal Procedures</i>	Pollock K and Cheng J	Jul 5, 2012
<i>Patient Positioning for Intracranial Surgery: A Guide for Residents and Fellows</i>	Couldwell WT and Cohen-Gadol AA	Jul 5, 2012
<i>Minimally Invasive Lumbar Deformity Surgery</i>	Mummaneni P and Mobasser JP	Aug 4, 2012
<i>Misadventures during Aneurysm Surgery: How to Avoid Them</i>	Barrow D and Cohen-Gadol AA	Aug 10, 2012
<i>Misadventures during Aneurysm Surgery: How to Manage Them</i>	Barrow D and Cohen-Gadol AA	Aug 10, 2012
<i>Starting a New Job: Part I—How to Land the Job You Want</i>	Rosman J and Payner TD	Aug 10, 2012
<i>Starting a New Job: Part II—Contract Negotiation</i>	Rosman J and Payner TD	Aug 10, 2012
<i>Starting a New Job: Part III—Business Development</i>	Rosman J and Payner TD	Aug 10, 2012
<i>Acoustic Neuromas: A Case-Based Review of Management Strategies</i>	Liu J and Couldwell WT	Aug 29, 2012
<i>Practice Management: Part I—How to Run an Efficient Neurosurgery Practice</i>	Pollock K and Cantrell D	Sep 4, 2012
<i>Practice Management: Part II—30 Tips to Boost Your Bottom Line</i>	Pollock K and Cantrell D	Sep 4, 2012
<i>Technical Nuances for Resection of Craniopharyngiomas</i>	Rutka JT and Cohen-Gadol AA	Sep 5, 2012
<i>Hospital Employment or Private Practice: Part I—Hospital Employment and Contract Negotiation</i>	Bean J and Wohns R	Oct 15, 2012
<i>Hospital Employment or Private Practice: Part II—Private Practice and Contract Negotiation</i>	Wohns R and Bean J	Oct 15, 2012
<i>Pterional Craniotomy: Details of Technique</i>	Payner TD and Cohen-Gadol AA	Oct 16, 2012
<i>How to Choose a Practice and Succeed: The Essentials, Pearls and Pitfalls</i>	Couldwell WT and Payner TD	Nov 15, 2012
<i>Resection of Arteriovenous Malformations: Subtypes and Surgical Technique</i>	Lawton MT and Cohen-Gadol AA	Nov 16, 2012
<i>Technical Challenges in AVM Resection: A Review of Intraoperative Videos</i>	Lawton MT and Cohen-Gadol AA	Nov 21, 2012
<i>Bypass Techniques for Complex Intracranial Aneurysms</i>	Morcos J and Cohen-Gadol AA	Dec 15, 2012
<i>Tackling challenging Cranial Cases: Pearls for Success</i>	Couldwell W and Cohen-Gadol AA	Dec 15, 2012
<i>Fluorescence-Guided Resection of High-Grade Glioma: New Developments</i>	Cohen-Gadol AA	Dec 26, 2012
<i>Brain Mapping for Resection of Insular Gliomas: Lessons Learned</i>	Carter B and Cohen-Gadol AA	Dec 28, 2012
<i>Microsurgical Clip Ligation of PICA Aneurysms: Pearls and Pitfalls</i>	Morcos J and Cohen-Gadol AA	Jan 15, 2013
<i>Getting Out of Trouble During Aneurysm Surgery: Technical Pearls</i>	Fisher W and Cohen-Gadol AA	Feb 12, 2013
<i>Pushing the Boundaries of Endovascular Treatment: The Decision Making Process</i>	Levy E and Cohen-Gadol AA	Feb 12, 2013
<i>Fluorescence-Guided Resection of High-Grade Glioma: New Developments</i>	Cohen-Gadol AA	Feb 13, 2013

<i>MVD for Trigeminal Neuralgia and Hemifacial Spasm—Pearls and Pitfalls</i>	Giannotta S and Cohen-Gadol AA	Mar 1, 2013
<i>How to be a Better Surgeon, a Better Professional and a Better Communicator</i>	Bogdewic S and Cohen-Gadol AA	Mar 10, 2013
<i>Medial Temporal Lobe Epilepsy: Evaluation</i>	Spencer D and Cohen-Gadol AA	Apr 10, 2013
<i>Anteromedial Temporal Lobectomy and Selective Amygdalohippocampectomy: Technique</i>	Spencer D and Cohen-Gadol AA	Apr 10, 2013
<i>Resection of Thalamopeduncular Tumors: Technique</i>	Boop R and Cohen-Gadol AA	May 10, 2013
<i>My Pearls of Technique: A Review of Challenging Cases</i>	Couldwell W and Cohen-Gadol AA	May 15, 2013
<i>Neurosurgery Practice Models for the Future: Challenges and Opportunities</i>	Kim DH and Cohen-Gadol AA	Jun 10, 2013
<i>My Pearls of Technique: A Review of Challenging Cases</i>	Spetzler R and Cohen-Gadol AA	Jun 15, 2013
<i>Measuring and Improving Performance in Surgical Training</i>	Dunnington G and Cohen-Gadol AA	Jul 10, 2013
<i>My Pearls of Technique: A Review of Challenging Cases</i>	Lawton M and Cohen-Gadol AA	Jul 15, 2013
<i>Resection of Cavernous Sinus Meningiomas</i>	Van Loveren H and Cohen-Gadol AA	Aug 15, 2013
<i>Retromastoid Craniotomy: Expanding the Operative Corridor</i>	Cohen-Gadol AA	Aug 17, 2013
<i>Nuances of the Expanded Endonasal Approach for Management of Complex Skull Base Lesions: Part II</i>	Gardner P and Cohen-Gadol AA	Sep 13, 2013
<i>Nuances of the Expanded Endonasal Approach for Resection of Complex Skullbase Tumors: Part I</i>	Gardner P and Cohen-Gadol AA	Sep 14, 2013
<i>MIS Lateral Retroperitoneal Approach (Part II): A Review of Cases</i>	Uribe J, Taylor W, and Cohen-Gadol AA	Oct 15, 2013
<i>MIS Lateral Retroperitoneal Approach (Part I): Anatomical and Technical Considerations</i>	Uribe J, Taylor W, and Cohen-Gadol AA	Oct 16, 2013
<i>Endoscopic Management of Metopic and Lambdoid Synostosis</i>	Jimenez D, Maher C, and Cohen-Gadol A	Nov 14, 2013
<i>Endoscopic Management of Sagittal and Coronal Synostosis</i>	Jimenez D, Maher C, and Cohen-Gadol AA	Nov 14, 2013
<i>Supracerebellar Approach: Expanding the Operative Corridor</i>	Cohen-Gadol AA	Dec 10, 2013
<i>Evaluation and Operative Management of Pediatric Moya-Moya Disease</i>	Smith E, Maher C, and Cohen-Gadol AA	Dec 14, 2013
<i>Technical Nuances for Managing Challenging Cases</i>	Couldwell W and Cohen-Gadol AA	Jan 14, 2014
<i>Flow Diversion for Treatment of Cerebral Aneurysms: A Discussion of Controversies</i>	Lanzino G, Morcos J, and Cohen-Gadol AA	Jan 16, 2014
<i>Revascularization Techniques for Treatment of Complex Aneurysms</i>	Dehdashti A and Cohen-Gadol AA	Feb 18, 2014
<i>Transcranial and Endoscopic Microsurgical Operative Corridors: Accessing Difficult-to-Reach Tumors</i>	Schwartz T and Cohen-Gadol AA	Feb 25, 2014
<i>Resection of Pineal Region Tumors: Pearls and Pitfalls</i>	Heros R and Cohen-Gadol AA	Mar 17, 2014
<i>Endoscopic Transnasal Surgery: Personal Perspectives</i>	Kelly D and Cohen-Gadol AA	Apr 15, 2014
<i>Minimally Invasive Transcranial Operative Corridors: Techniques</i>	Kelly D and Cohen-Gadol AA	May 15, 2014
<i>Percutaneous Procedures for Trigeminal Neuralgia: Radiofrequency and Balloon Compression Rhizotomy</i>	Tew J and Cohen-Gadol AA	Jun 15, 2014
<i>Microsurgical Management of Cavernous Malformations: Personal Perspectives</i>	Spetzler R	Jul 16, 2014
<i>Physical Examination for Nerve Injuries and Tumors</i>	Kline D and Cohen-Gadol AA	Aug 15, 2014
<i>Microsurgical Management of Aneurysms and AVMs: Personal Perspectives</i>	Spetzler R and Cohen-Gadol AA	Sep 12, 2014
<i>Nuances of Neurovascular Surgery</i>	Lawton M and Cohen-Gadol AA	Nov 15, 2014
<i>A Hybrid Minimally Invasive Posterior Interbody Fusion Technique</i>	Brand C, Cheng J, and Cohen-Gadol AA	Dec 14, 2014

<i>Sagittal Imbalance and Minimally Invasive Spine Surgery</i>	Brand C, Cheng J, and Cohen-Gadol AA	Jan 14, 2015
<i>Managing Operating Room Team Conflict Effectively</i>	Rogers DA and Cohen-Gadol AA	Feb 10, 2015
<i>Resection of Acoustic Neuromas: Translabyrinthine Approach</i>	Baskaya M and Cohen-Gadol AA	Mar 10, 2015
<i>Acoustic Neuromas: Retromastoid and Middle Fossa Approaches</i>	Baskaya M and Cohen-Gadol AA	Apr 10, 2015
<i>Burnout Proof: Lower Stress and Build a More Ideal Practice</i>	Drummond D and Cohen-Gadol AA	Jun 12, 2015
<i>Complication Avoidance and Management in Cranial Surgery</i>	Spetzler R, Lawton M, Gardner P, and Cohen-Gadol AA	Jul 12, 2015
<i>Tackling Challenging Cranial Cases</i>	Couldwell W, Lawton M, Gardner P, Fernandez-Miranda J, and Cohen-Gadol AA	Aug 12, 2015
<i>Complication Avoidance in Cranial Surgery: AANS 2016 Tues Operative Session</i>	Couldwell W, Lawton M, Spetzler R, Gardner P, and Cohen-Gadol AA	Jun 12, 2016
<i>Nuances of Technique in Cranial Surgery: AANS 2016 Monday Operative Session</i>	Boop F, Couldwell W, Fernandez-Miranda J, Gardner P, and Cohen-Gadol AA	Jul 12, 2016
<i>Technical Pearls for Resection of AVMs by Dr. Michael Morgan</i>	Morgan M and Cohen-Gadol AA	Aug 14, 2016
<i>Endoscopic Endonasal Anterior Skull Base Surgery: Anatomy and Surgical Correlates</i>	Fernandez-Miranda J and Cohen-Gadol AA	Dec 28, 2016
<i>Endoscopic Endonasal Surgery for Tuberculum Sella Meningiomas</i>	Fernandez-Miranda J and Cohen-Gadol AA	Feb 12, 2017
<i>Primer on Pediatric Spinal Deformities: Neuromuscular Scoliosis, Kyphosis and Spondylolisthesis</i>	Jea A and Mobasser JP	Mar 11, 2017
<i>Push your Performance to the Next Level: Surgical Performance Optimization</i>	Stefanidis D	Apr 11, 2017
<i>Mentorship in Neurosurgery</i>	Couldwell B and Cohen-Gadol AA	May 12, 2017
<i>Endoscopic Resection of Craniopharyngiomas</i>	Fernandez-Miranda J	June 11, 2017
<i>How to Write a Neurosurgical Manuscript and Get it Published! A Forum of Ideas</i>	Rutka J, Oyesiku N, Benzel E, Nanda A and Mathieson T	Jul 11, 2017
<i>Innovations in Neurosurgical Practice, Part 1: Co-Management Models With Hospital</i>	Kim DH	Feb 9, 2018
<i>Innovations in Neurosurgical Practice, Part II: Quality Measures</i>	Kim DH	Feb 9, 2018
<i>Revascularization for Aneurysm Surgery</i>	Barrow D and Cohen-Gadol AA	June 2, 2020
<i>MVD for Trigeminal Neuralgia: Personal Reflections</i>	Sekula R and Cohen-Gadol AA	June 17, 2020
<i>Giant Pituitary Tumors</i>	Couldwell W and Cohen-Gadol AA	June 24, 2020
<i>Complex Craniopharyngiomas: Pearls and Pitfalls</i>	Fernandez-Miranda J and Cohen-Gadol AA	July 6, 2020
<i>Resection of Deep-Seated Cavernous Malformations</i>	Spetzler R and Cohen-Gadol AA	July 8, 2020
<i>Transcending Minimally Invasive Lateral Spine Surgery</i>	Uribe J and Cohen-Gadol AA	July 15, 2020
<i>Challenging Cases in Neurosurgical Oncology</i>	Rutka J and Cohen-Gadol AA	July 22, 2020
<i>Nuances of AVM Surgery</i>	Baskaya M and Cohen-Gadol AA	July 29, 2020
<i>Endonasal Approach to the Petrous Apex</i>	Gardner P and Cohen-Gadol AA	Aug 5, 2020
<i>Brainstem Cavernomas: Concepts, Strategies and Technical Tips</i>	Morcos J and Cohen-Gadol AA	Aug 12, 2020
<i>Surgical Resection of Thalamopeduncular Tumors</i>	Boop R and Cohen-Gadol AA	Aug 19, 2020
<i>Surgical Techniques for AVM Resection</i>	Lawton M and Cohen-Gadol AA	Aug 26, 2020
<i>The Principles of Keyhole Surgery</i>	Teo C and Cohen-Gadol AA	Sep 1, 2020
<i>Fireside Chat: The Making of a Master Neurosurgeon</i>	Spetzler R, Heros R, Morcos J, and Cohen-Gadol AA	Sep 9, 2020

<i>Endoscopic Skull Base Surgery: Lessons Learned</i>	Schwartz T and Cohen-Gadol AA	Sep 16, 2020
<i>Temporal Lobe Anatomy and Surgery</i>	Fernandez-Miranda JC and Cohen-Gadol AA	Sep 22, 2020
<i>Dealing with Intraoperative Misadventures</i>	Cohen-Gadol AA and Barrow D	Sep 22, 2020
<i>Personal Reflections in AVM Surgery</i>	Cohen-Gadol AA	Sep 22, 2020
<i>Surgical Management of Pineal Region Tumors</i>	Bruce J and Cohen-Gadol AA	Sep 29, 2020
<i>Microsurgical Resection of Thalamic Lesions</i>	Türe U and Cohen-Gadol AA	Oct 6, 2020
<i>Bloodless Precise Microsurgical Approach and Vascular Reconstructions</i>	Tanikawa R and Cohen-Gadol AA	Oct 14, 2020
<i>Endoscope-Assisted Skull Base Surgery in the Posterior Fossa</i>	Schroeder H and Cohen-Gadol AA	Oct 21, 2020
<i>Approach Selection for Complex Skull Base Lesions</i>	Froelich S and Cohen-Gadol AA	Oct 26, 2020
<i>Surgery of the Cerebellopontine Angle</i>	Link M and Cohen-Gadol AA	Nov 2, 2020
<i>Challenges and Innovations in Pituitary Surgery</i>	Fernandez-Miranda JC and Cohen-Gadol AA	Nov 9, 2020
<i>Mastering the Temporal Bone: Transpetrosal Approaches to the Skull Base and Vascular Lesions</i>	Liu JK and Cohen-Gadol AA	Nov 16, 2020
<i>Management of Spinal Cord Vascular Lesions</i>	Spetzler R and Cohen-Gadol AA	Nov 23, 2020
<i>Pseudocapsular Resection of Pituitary Tumors</i>	Bergsneider M and Cohen-Gadol AA	Nov 30, 2020
<i>Tuberculum Sella Meningioma</i>	Kelly D and Cohen-Gadol AA	Dec 7, 2020
<i>Challenging CP Angle and Petroclival Tumors</i>	Link M and Cohen-Gadol AA	Dec 14, 2020
<i>Microsurgical Anatomy Applied to Cerebrovascular Lesions</i>	Rubino P and Cohen-Gadol AA	Dec 21, 2020
<i>Surgical Management of Cushing's Disease and Acromegaly</i>	Jane JA Jr and Cohen-Gadol AA	Dec 28, 2020
<i>Surgery for Complex AVMs</i>	Dehdashti A and Cohen-Gadol AA	Jan 4, 2021
<i>5-ALA Fluorescence-Guided Surgery for High-Grade Gliomas</i>	Hadjipanayis C and Cohen-Gadol AA	Jan 10, 2021
<i>Management of Craniopharyngioma: Open vs. Endoscopic Techniques</i>	Gentili F and Cohen-Gadol AA	Jan 18, 2021
<i>Management of Spinal Cord Tumors</i>	Spetzler R and Cohen-Gadol AA	Jan 25, 2021
<i>Complication Avoidance and Salvage Strategies in Aneurysm Surgery</i>	Amin-Hanjani S and Cohen-Gadol AA	Feb 1, 2021
<i>Chordomas and Chondrosarcomas: Surgical Anatomy and Technical Nuances</i>	Fernandez-Miranda JC and Cohen-Gadol AA	Feb 8, 2021
<i>Medical Malpractice: How to Avoid It and Deal With It</i>	Wohns R and Cohen-Gadol AA	Feb 15, 2021
<i>Craniocervical Junction Abnormalities: Why, When and How to Treat?</i>	Gardner P and Cohen-Gadol AA	Feb 22, 2021
<i>Advanced Techniques in Spine Surgery</i>	Bydon M and Cohen-Gadol AA	Mar 1, 2021
<i>Minimally Invasive Algorithms for Spinal Deformity</i>	Mummaneni P and Cohen-Gadol AA	Mar 8, 2021
<i>Microsurgery of AVMs—Tips, Tricks, and Pitfalls</i>	Vajkoczy P and Cohen-Gadol AA	Mar 15, 2021
<i>Surgical Management of Intraventricular Tumors: Anatomical and Operative Pearls</i>	Liu JK and Cohen-Gadol AA	Mar 22, 2021
<i>Atlas Innovations: Stealth Autoguide™: Initial Clinical Experience 1-Year Update</i>	Adelson D, Mehta V, and Shah M, and Cohen-Gadol AA	Mar 29, 2021
<i>Resection of Brainstem Cavernous Malformations</i>	Lawton M and Cohen-Gadol AA	Apr 5, 2021
<i>Skull Base Meningiomas: Surgical Nuances and Functional Preservation</i>	Couldwell W and Cohen-Gadol AA	Apr 12, 2021
<i>Modern Treatment Algorithm for Acoustic Neuroma Surgery</i>	Theodosopoulos P and Cohen-Gadol AA	Apr 19, 2021
<i>Enhanced Recovery in Keyhole Cranial Surgery: Is "Outpatient" Brain Surgery Possible?</i>	Sivakumar W and Cohen-Gadol AA	Apr 26, 2021
<i>A Case Review Using the Robotic Digital Microscope Modus V™ in Brain and Spine Surgery</i>	Hadjipanayis C, Nangunoori R, Fecci P, and Cohen-Gadol AA	May 3, 2021

<i>Diversity in Neurosurgery</i>	Rosseau G and Cohen-Gadol AA	May 10, 2021
<i>Splitting the Sylvian Fissure: A Necessary Skill to Approach Vascular and Parasellar Lesions</i>	Camarata P and Cohen-Gadol AA	May 17, 2021
<i>Management of AVMs After ARUBA</i>	Spetzler R and Cohen-Gadol AA	May 24, 2021
<i>Neurosurgical Innovation in the Academic Ecosystem</i>	Khalessi A and Cohen-Gadol AA	May 31, 2021
<i>Operating on the “Inoperable” Gliomas</i>	Baskaya M and Cohen-Gadol AA	June 7, 2021
<i>Cavernous Sinus Meningiomas: Variants of Strategies and Techniques</i>	Morcos J and Cohen-Gadol AA	June 14, 2021
<i>Dural Arteriovenous Fistulas: Operative Strategies</i>	Lawton M and Cohen-Gadol AA	June 21, 2021
<i>Atlas Innovations: ZEISS QEVO: The Microinspection Tool</i>	Fernandez-Miranda JC, Dehdashti A, Sivakumar W, and Cohen-Gadol AA	June 28, 2021
<i>Role of Surgical Revascularization in the Current Era of Endovascular Therapies</i>	Steinberg G and Cohen-Gadol AA	July 5, 2021
<i>Fully Endoscopic CP Angle and Brainstem Surgery</i>	Lee JYK and Cohen-Gadol AA	July 12, 2021
<i>Epilepsy Surgery in Children: Innovations in Diagnosis and Treatment</i>	Adelson D and Cohen-Gadol AA	July 19, 2021
<i>Decision Making for Endovascular versus Microsurgical Treatment of Aneurysms</i>	Burkhardt J and Cohen-Gadol AA	July 26, 2021
<i>Craniofacial Resections for Malignant Disease of the Skull Base</i>	DeMonte F and Cohen-Gadol AA	Aug 9, 2021
<i>Modern Skull Base Surgery: 6+1 Skull Base Approaches</i>	Fernandez-Miranda JC and Cohen-Gadol AA	Aug 23, 2021
<i>Management of Lesions in and Around the Third Ventricle</i>	Spetzler R and Cohen-Gadol AA	Sep 5, 2021
<i>Awake Craniotomy for Glioma Resections: Basic and Advance Concepts and Methods</i>	Berger M and Cohen-Gadol AA	Sep 15, 2021
<i>The Limits of Endoscopic Endonasal Skull Base Surgery (Sagittal Plane)</i>	Prevedello D and Cohen-Gadol AA	Oct 4, 2021
<i>Orbital Surgery and the Neurosurgeon</i>	Couldwell W and Cohen-Gadol AA	Oct 18, 2021
<i>Skull Base Meningiomas: Target-Based Approach Selection</i>	Liu JK and Cohen-Gadol AA	Nov 1, 2021
<i>Innovation and Entrepreneurship in Neurosurgery: Lessons Learned</i>	Foley K and Cohen-Gadol AA	Nov 15, 2021
<i>Tractography Technology in Neurosurgery</i>	Tournier D, de Quintana Schmidt C, Bezchlibnyk Y, and Cohen-Gadol AA	Nov 21, 2021
<i>Endoscopic Endonasal Skull Base Surgery (Coronal Plane)</i>	Prevedello D and Cohen-Gadol AA	Nov 29, 2021
<i>Shunts and Normal Pressure Hydrocephalus: Pearls and Pitfalls</i>	Chen J and Cohen-Gadol AA	Dec 7, 2021
<i>Surgery of Petroclival Meningiomas in the Modern Time</i>	Youssef AS and Cohen-Gadol AA	Jan 10, 2022
<i>Surgery Around the Anterior Clinoid Process</i>	Agazzi S and Cohen-Gadol AA	Jan 24, 2022
<i>Building a Brain Tumor Center</i>	Komotar RJ and Cohen-Gadol AA	Feb 7, 2022
<i>Seven Sylvian Splits: Opening the Gateway to the Subarachnoid Space</i>	Lawton M and Cohen-Gadol AA	Feb 21, 2022
<i>Editor-in-Chief Forum: The Past, Present, and Future of Neurosurgery Journal Publishing</i>	Rutka J and Cohen-Gadol AA	Mar 7, 2022
<i>Endoscopic Endonasal Surgery for Anterior Cranial Base Meningiomas</i>	Gardner P and Cohen-Gadol AA	Mar 21, 2022
<i>How to Build a Brain Tumor Research Center</i>	Rutka J and Cohen-Gadol AA	Apr 4, 2022
<i>The Transorbital Approach</i>	Schwartz T and Cohen-Gadol AA	Apr 18, 2022
<i>Nuances of Microvascular Decompression for Trigeminal Neuralgia</i>	Hodaie M and Cohen-Gadol AA	May 9, 2022

<i>Minimally Invasive Corridors to the Suprasellar Region: The Endonasal and Supraorbital Approaches</i>	Zada G and Cohen-Gadol AA	May 23, 2022
<i>Understanding and Treating Craniovertebral Junction Instability</i>	Goel A and Cohen-Gadol AA	Jun 6, 2022
<i>Spinal Dural Arteriovenous Fistulas: Endovascular and Surgical Management</i>	Mack W and Cohen-Gadol AA	Jun 20, 2022
<i>“New” Spine Surgery: Looking Beyond Decompression</i>	Goel A and Cohen-Gadol AA	Jul 11, 2022
<i>The SNS Presidential Address: Innovation in Neurosurgical Education</i>	Selman W and Cohen-Gadol AA	Jul 25, 2022
<i>Microneurosurgical Resection of Midbrain Gliomas</i>	Ture U and Cohen-Gadol AA	Aug 8, 2022
<i>XII Cranial Nerves in 12 Months: My First Year as a Skull Base Attending</i>	Goldschmidt E and Cohen-Gadol AA	Aug 22, 2022
<i>Hearing Preservation Techniques for Vestibular Schwannoma Resection</i>	Couldwell W and Cohen-Gadol AA	Sep 19, 2022
<i>Endoscopic Endonasal Approach: The Preferred Approach to the Cavernous Sinus</i>	Gardner P and Cohen-Gadol AA	Oct 3, 2022
<i>Surgical Management of Focal Brainstem Tumors in Children</i>	Boop F and Cohen-Gadol AA	Oct 17, 2022
<i>New Era of Endoscopic Transorbital Surgery: Indications and Feasibility</i>	Kong D-S and Cohen-Gadol AA	Oct 31, 2022
<i>Cavernous Sinus: A 38-Year Journey</i>	Goel A and Cohen-Gadol AA	Nov 14, 2022
<i>50 Years in Neurosurgery</i>	Hernesniemi J and Cohen-Gadol AA	Dec 5, 2022
<i>Global Neurosurgery</i>	Rosseau G and Cohen-Gadol AA	Dec 19, 2022
<i>Management of Intra-Operative Complications</i>	Amir Dehdashti and Cohen-Gadol AA	Jan 16, 2023
<i>Neurosurgery in China</i>	Hernesniemi J and Cohen-Gadol AA	Jan 30, 2023
<i>Surgical Resection of Pediatric AVMs</i>	Smith E and Cohen-Gadol AA	Feb 13, 2023
<i>The Clinical Implications of the Genomics of Meningiomas</i>	Moliterno J and Cohen-Gadol AA	Feb 27, 2023
<i>Bypass Techniques for Anterior and Posterior Circulation Revascularization</i>	Couldwell W and Cohen-Gadol AA	Apr 10, 2023
<i>Changing the Outcome Paradigm for Patients with Suspected INPH</i>	Hamilton M and Cohen-Gadol AA	May 15, 2023
<i>Treatment Overview: VP and VA Shunts</i>	Hamilton M and Cohen-Gadol AA	May 29, 2023
<i>The Role for ETV in Adult Hydrocephalus</i>	Hamilton M and Cohen-Gadol AA	Jun 19, 2023
<i>Gene-Based and Viral-Based Immunotherapies for Glioblastoma</i>	Chiocca EA and Cohen-Gadol AA	Jul 24, 2023
<i>Vestibular Schwannoma: Functional Preservation Strategies</i>	Youssef AS and Cohen-Gadol AA	Aug 7, 2023
<i>Giant Pituitary Macroadenoma: Endoscopic Surgical Management and Its Pitfalls</i>	Belkhair S and Cohen-Gadol AA	Sep 25, 2023
<i>Surgery of Mesencephalic Brainstem Tumors</i>	Arraez MA and Cohen-Gadol AA	Oct 9, 2023
<i>The Neurosurgery–Neuroanatomy Research Axis: Future Perspectives to Study Synaptic Transmission</i>	Lenz M and Cohen-Gadol AA	Oct 23, 2023
<i>Unwrapping a Not-for-Profit Healthcare System: Building a New Neurosciences Program</i>	McDermott M and Cohen-Gadol AA	Nov 6, 2023
<i>Social Media: Friend or Foe for a Neurosurgeon</i>	Hoh B, Levi A, and Cohen-Gadol AA	Nov 20, 2023
<i>Neurosurgical Entrepreneurship</i>	Dagi TF and Cohen-Gadol AA	Dec 4, 2023
<i>Citius - Exiguus - Titius: Mixed Reality in Complex Intracranial Surgery</i>	Jean W and Cohen-Gadol AA	Dec 18, 2023
<i>Acceleration</i>	Hadley M and Cohen-Gadol AA	Feb 12, 2024
<i>A Fireside Chat About History of Neurosurgery</i>	Schwartz T and Cohen-Gadol AA	Mar 25, 2024

MENTORING

STUDENTS, RESIDENTS, AND COLLEAGUES DIRECTLY SUPERVISED AND MENTORED

Individual	Role	Inclusive Dates
All neurosurgery/endovascular fellows	Advisor	2007–present
Michael Bellew, MD (neurosurgery/endovascular fellow)	Advisor	2007–2008
William Akard (undergraduate student)	Research mentor	2008
Beth Shelton (medical student)	Research mentor	2008
Itay Melamed, MD (neurosurgery/endovascular fellow)	Advisor	2008–2009
Courtney Pendleton (medical student)	Research mentor	2008–2012
Edward O'Hara (medical student)	Research mentor	2008–2012
Greg Helbig (neurosurgery resident)	Mentor for cranial training and research	2008–2012
Leisha Osburn (director of IU Health Neurophysiology Laboratory)	Research mentor	2008–2012
Ryan Lau (supervisor for Neurophysiology Laboratory)	Research mentor	2008–2013
Dan Kim (neurosurgery resident)	Mentor for cranial/cerebrovascular training and research	2008–2014
Robert Kellogg (medical student)	Career mentor	2009
Jared Wilkinson (undergraduate student)	Advisor and mentor	2009
Nicholas Gianaris (undergraduate student)	Advisor and mentor	2009
Zach Seymour (medical student)	Advisor and mentor	2009
Neal Patel (medical student)	Research mentor	2009–2015
Amrith Jamoona, MD (neurosurgery/endovascular fellow)	Career advisor	2009–2010
Ha Son Nguyen (medical student)	Research mentor	2009–2012
Todd Vogel, MD (neurosurgery resident)	Research mentor	2009–2014
Shaheryar Ansari (medical student and resident)	Advisor and mentor	2010–2013
Jeff Lastfogel (medical student)	Advisor and mentor	2010–2012
Jessica Wilden, MD (neurosurgery resident)	Research mentor	2010–2012
Bradley Bohnstedt, MD (neurosurgery resident)	Mentor for cranial/cerebrovascular training and research	2010–2015
William J. Kemp (undergraduate student)	Research mentor	2012–2014
Rishi Sethia (undergraduate student)	Research and clinical mentor	2013–2015
Johanathan Parish (medical student)	Research mentor	2013–2015
Chad Tucheck (medical student)	Research mentor	2013–2016
Cris Guandique (graduate student)	Research mentor	2013–2016
Tony Mason Brown (medical student)	Research mentor	2013–2016
John Parish (medical student)	Research mentor	2013–2016
Chad Tucheck (medical student)	Research mentor	2014–2016
Benjamin Hendricks (medical student and resident)	Research mentor	2014–2016
Jonathan Weyhenmeyer (medical student and resident)	Research mentor	2014–2016
Clint M. Alfaro (PhD candidate)	Research Mentor (received the CTSI predoctoral training award for intraoperative mass spect study)	2017–2018
Kushal Shah (fellow and faculty)	Fellowship mentor	2017-2018
Robert Scranton (fellow and faculty)	Fellowship mentor	2018-2019
Umit Eroglu (Turkish neurosurgeon)	Research mentor	2018-2019

Marcus Acioly (Brazilian neurosurgeon)	Research mentor	2018-2020
Sam Tomlinson (Medical student and resident)	Research mentor	2018-2019
Gina Monaco (resident and faculty)	Fellowship mentor	2019-2020
Brandon Lane (resident and faculty)	Fellowship mentor	2019-2020
Wei Huff (resident)	Fellowship mentor	2020-2021
Dario Marrota (DO student)	Research mentor	2020-2021
Chris Wilson	Fellowship mentor	2022-2023

NEUROSURGICAL FELLOWS DIRECTLY SUPERVISED AND MENTORED

Name	Role	Current Position	Dates
Roberto Ray-Dios, MD	Fellowship Director	University of Mississippi Neurosurgery Department Director of Neurosurgical Oncology	2012-2013
Bradley N. Bohnstedt, MD	Mentor	University of Oklahoma Director of Vascular Neurosurgery	2013-2014
Richard Kim, MD	Fellowship Director	Colorado Brain and Spine Institute (Englewood, CO)	2014-2015
Nasser Mansour	Fellowship Director	SUNNY Downstate University Division of Neurosurgery (Brooklyn, NY)	2015-2016
Wael Hassanen	Fellowship Director	Carle Foundation Hospital (Urbana, IL) Program Lead: Brain Tumor/Skull Base Center	2016-2017
Kushal Shah	Fellowship Director	University of Kansas, Department of Neurosurgery	2017-2018
Robert Scranton	Fellowship Director	Covenant Neuroscience Institute (Lubbock, TX)	2018-2019
Brandon Lane and Gina Monaco	Fellowship Director	Indiana University Neurosurgery and Inland Neurosurgery and Spine (Spokane, WA)	2019-2020
Wei Huff	Fellowship Director	Beacon Medical Group (South Bend, IN)	2020-2021
Daniel Eddelman	Fellowship Director	Community Physician Network, Neurosurgery (Indianapolis, IN)	2021-2022

TEACHING, ADMINISTRATION AND CURRICULUM DEVELOPMENT INVITED PRESENTATIONS—TEACHING

LOCAL Title	Organization	Date
<i>Perforating Arteries of the Proximal Anterior Cerebral Circulation: Surgical Anatomy and Clinical Implications</i>	Indiana University Department of Neurosurgery Grand Rounds	Apr 2008
<i>Nuances of Technique for Resection of Complex Skull Base Meningiomas</i>	Indiana University Department of Neurosurgery Grand Rounds	May 2008
<i>Hemispherotomy for Intractable Seizures: Technical Nuances</i>	Indiana University Department of Neurosurgery Grand Rounds	Oct 2008
<i>Selective Peripheral Denervation for Spasmodic Torticollis</i>	Indiana University Department of Neurosurgery Grand Rounds	Apr 2009
<i>Cranio-Orbital Osteotomy: Accessing Orbital and Parasellar Lesions</i>	Indiana University Department of Ophthalmology	Jan 2010
<i>Insular Gliomas: Neurological and Neurosurgical Considerations</i>	Indiana University Department of Neurosurgery Grand Rounds	Feb 2010
<i>Faces of Neurological Disease</i>	Indiana University Department of Neurosurgery Grand Rounds	Jul 2010

<i>Intraoperative Misadventures: What Next?</i>	Indiana University Department of Neurosurgery Grand Rounds	Jul 2010
<i>Awake Brain Mapping and Anesthetic Considerations</i>	Indiana University Neurophysiology	Jul 2010
<i>Microsurgical Clip Ligation of Anterior Communicating Artery Aneurysms: Pearls & Pitfalls</i>	Indiana University Department of Neurosurgery Grand Rounds	Feb 16, 2011
<i>Principles of Epilepsy Surgery</i>	Epilepsy Symposium, St Vincent Neuroscience Institute	Oct 2011
<i>Microsurgical Clip Ligation of MCA Aneurysms: Nuances of Technique</i>	Indiana University Department of Neurosurgery Grand Rounds	Jul 20, 2011
<i>MVD for Hemifacial Spasm: Nuances of Technique</i>	Indiana University Department of Neurosurgery Grand Rounds	Jan 18, 2012
<i>Challenging Vascular Cases: How Do I Do It</i>	Indiana University Department of Neurosurgery Grand Rounds	Mar 28, 2012
<i>Techniques of Awake Craniotomy for Cortical Mapping</i>	Indiana University Neuroscience Grand Rounds	Feb 13, 2013
<i>Cerebrovascular Surgery: Techniques to Minimize Complications</i>	Indiana University Neuroscience Grand Rounds	May 29, 2013
<i>Transylvian Selective Amygdalohippocampectomy</i>	Indiana University Neuroscience Grand Rounds	Oct 30, 2013
<i>Expanded Endoscopic Transnasal Surgery: Techniques and Outcomes</i>	Indiana University Neuroscience Grand Rounds	Jul 30, 2014
<i>Recent Advances in Pituitary Surgery</i>	Indiana University Endocrinology Grand Rounds	Jan 6, 2016
<i>Advanced Endoscopic Skull Base Surgery</i>	101st Annual Anatomy & Histopathology of the Head, Neck and Temporal Bone Course, Indiana University	July 13, 2016
<i>Technical Principles in Retromastoid Surgery</i>	Indiana University Department of Neurosurgery Grand Rounds	Apr 12, 2017
<i>Indiana University Annual Skull Base Symposium</i>	Indiana University Co-Director	Dec 17, 2022 Nov 5, 2023
<i>Pituitary Tumor Surgery: A Review for Endocrinologists</i>	Indiana University Endocrinology Grand Rounds	Jan 2024
<i>Reflections on 7500 Cranial Cases: Lessons Learned</i>	USC Department of Neurological Surgery Grand Rounds	Oct 2024
<i>Inside the Mind of the Neurosurgeon</i>	USC Neurology Grand Rounds	Dec 2024

REGIONAL		
<i>Updates in Neurological Surgery</i>	Reid Hospital Grand Rounds, Richmond, IN	May 2008
<i>How to Treat Epilepsy and Avoid Its Long-Term Effects</i>	Indiana State Fair	Aug 2009
<i>Trigeminal Neuralgia: Surgical Treatment</i>	Indiana Chapter of Trigeminal Neuralgia Association	Sep 2009
<i>Brain Mapping: Methods and Outcomes in Improving the Extent of Tumor Resection</i>	Ball Memorial Hospital Grand Rounds	Oct 2011
<i>Trigeminal Neuralgia: Pitfalls in Diagnosis and Treatment</i>	Indiana Dental Association Meeting	Apr 2013
<i>Indiana University-Purdue University Brain Cancer Research Symposium</i>	Purdue University	Feb 2014

<i>Trigeminal Neuralgia Association Regional Conference</i>	Trigeminal Neuralgia Association	Apr 2014
<i>Treatments for Trigeminal Neuralgia</i>	Indiana Chapter of Trigeminal Neuralgia Association	Apr 2022

NATIONAL (Invited Visiting Professorship Lectures)

Visiting Professor and Keynote Speaker: <i>Brain Mapping for “Inoperable” Gliomas: Lessons Learned</i>	University of Mississippi Dept of Neurosurgery and Mississippi State Neurosurgical Society	Jan 2010
<i>Resection of “Inoperable” Insular Gliomas</i>	Temple University Department of Neurosurgery	Nov 2012
<i>Awake Mapping Techniques for Maximizing Tumor Resection</i>	Allegheny General Hospital Neurosurgery Department	May 2013
<i>Fluorescence for Management of Complex Neoplastic and Vascular Lesions: New Developments</i>	University of Mississippi Department of Neurosurgery/Orlando Andy Research Lecturer	June 2013
<i>Connecting Research Bench to Clinic: Targeting the MDM2 Signaling Network in Glioblastoma Multiforme</i>	Mayo Clinic Arizona	Apr 2014
<i>Intraoperative Fluorescence for Management of Complex Vascular and Neoplastic Lesions</i>	The University of Chicago, Section of Neurosurgery	Jul 2014
<i>Management of Complex Tumors and Aneurysms Using Advanced Intraoperative Fluorescence Technologies</i>	The Swedish Neurological Institute	Aug 2015
<i>Resection of Insular Gliomas</i>	Weill Cornell Department of Neurological Surgery	Mar 2016
<i>Fluorescence Guidance for Management of High-Grade Gliomas and Aneurysms</i>	West Virginia University Department of Neurosurgery	Feb 2017
<i>Intraoperative Decision Making: The Ecstasy and Agony</i>	University of Pennsylvania Department of Neurosurgery	Jun 2018
<i>Advancing Tumor Resection via Fluorescence and DESI-Mass Spectroscopy</i>	Neuro-Oncology Symposium Brain Tumors 2018, Penn Medicine’s Abramson Cancer Center	Jun 2018
<i>Advancing Intraoperative Decision Making in Neurosurgery</i>	Northwell Neuroscience Institute	Dec 2018
<i>The Art of Microneurosurgery and Evolution of the Surgeon</i>	Massachusetts General Hospital	Feb 2019
<i>Intraoperative Decision Making: Lessons learned from Victories and Failures in 350 AVM Cases</i>	University of Toronto Neurosurgery Department, Keith Lectureship	Jun 2019
<i>Virtual OR by the Neurosurgical Atlas: MVD for Hemifacial Spasm and Resection of Giant AVMs</i>	Massachusetts General Hospital	Apr 2020
<i>Intraoperative Decision Making in Neurosurgery</i>	UCSF Neurosurgery	Apr 2020
<i>Evolution of a Surgeon from the Novice to Master</i>	University of Texas, Austin	Oct 2020
<i>Intraoperative Decision Making and Lessons Learned from the Neurosurgical Atlas</i>	Jefferson Neurosurgery	Oct 2020
<i>Decision Making in Complex Cranial Surgery: The experience from the Neurosurgical Atlas</i>	Barrow Neurological Institute	Apr 2021
<i>Technical Mastery in Neurosurgery</i>	Texas A&M University Neurosurgery / Baylor Scott & White Medical Center	July 2021
<i>Evolution of technical Skills among Neurosurgical Trainees</i>	Cedars-Sinai Neurosurgery	July 2021
<i>Lessons Learned from 20 years of Life in Neurosurgery</i>	Loma Linda Neurosurgery	Dec 2021

<i>Mastery of Microsurgical Skills: Pearls and Pitfalls</i>	University of Southern California (USC) Neurosurgery	Jan 2022
<i>Evaluation of Technical Skills in Cranial Surgery: The Neurosurgical Atlas Experience</i>	St Louise Neurosurgical Society Annual Meeting	Sept 2022
<i>A Journey through 7,000 Cranial Cases: What did I Learn?</i>	George Washington Neurosurgery Department	Aug 2023
<i>A Life in Neurosurgery: What Have I learned?</i>	Albert Einstein/Leo M. Davidoff Department of Neurosurgery	Feb 2024
<i>AtlasGPT and Atlas SURGEON: Ushering in a New Era in Neurosurgery</i>	Tufts University, Dept of Neurosurgery	March 2024
<i>Neurosurgical Innovation and Entrepreneurship</i>	University of South Florida Dept of Neurosurgery	April 2024
<i>The Makings of a Neurosurgeon: Challenges and Triumphs</i>	Arrowhead Regional Medical Center Dept of Neurosurgery, Colton, CA	Nov 2024

NATIONAL MEETINGS (Invited Lectures)		
<i>Operative Techniques with the Masters</i>	Practical Anatomy Workshop, St Louis, MO	2003
<i>Radisurgery and Functional Neurosurgery</i>	UCLA Tutorial Course, Los Angeles, CA	2005
<i>Everything You Need to Know but Didn't Learn in Residency: A Primer on How to Choose a Practice and Avoid Pitfalls</i>	AANS Weekend practical course, Atlanta, GA	2007
<i>Epilepsy: New Surgical Treatment and Management Approaches</i>	AANS Breakfast Seminar, Chicago, IL	2008
<i>Minimally Invasive Treatment of Trigeminal Neuralgia</i>	AANS Weekend Practical Course, Chicago, IL	2008
<i>Minimally Invasive Treatment of Trigeminal Neuralgia</i>	AANS Weekend Practical Course, San Diego, CA	2009
<i>Ruptured Cerebral Aneurysms: Microsurgical and Endovascular Treatment Options</i>	CNS Luncheon Seminar, New Orleans, LA	2009
<i>Epilepsy: New Surgical Treatment and Management Approaches</i>	AANS Breakfast Seminar, San Diego, CA	2009
<i>Moderator: Complications of Aneurysm Surgery (Case Presentation)</i>	Cerebrovascular Complication "3C Jackson Hole" Conference, MT	2009
<i>Examiner: Cranial Surgery Topics</i>	Invited Faculty: Goodman Oral Board Review Course, Houston, TX	2010
<i>Unexpected Intra-Operative Vascular Complications in Intracranial Surgery: What to Do Next: A Video Presentation</i>	AANS Breakfast Seminar, Philadelphia, PA	2010
<i>Live Surgery Presentation: Technical Nuances of Microneurosurgery: Microvascular Decompression Surgery for Trigeminal Neuralgia and Hemifacial Spasm</i>	CNS Meeting, San Francisco, CA (Attendees were 250 neurosurgeons)	2010
<i>Minimally Invasive Treatment of Trigeminal Neuralgia</i>	AANS Weekend Practical Course, Philadelphia, PA	2010
<i>Minimally Invasive Treatment of Trigeminal Neuralgia</i>	AANS Weekend Practical Course, Denver, CO	2011
<i>Webconferencing, Live Surgery and 3D Stereoscopic Imaging: Tools for the Next Generation of Neurosurgical Education</i>	AANS Plenary Session, Denver, CO	2011
<i>History of Neuroendocrine Surgery</i>	AANS Breakfast Seminar, Denver, CO	2011
<i>Operative Nuances for Cranial and Skull Base Procedures: A Cadaveric and Case-Based Microsurgical Presentation</i>	(Course Director) AANS Weekend Practical Course, Denver, CO	2011
<i>Minimally Invasive Treatment of Anterior Cranial Base Lesions</i>	AANS Weekend Practical Course, Denver, CO	2011

<i>The Art of Managing Complex Cranial Cases: A 3D Video Presentation</i>	CNS meeting, Plenary Session, Washington DC	2011
<i>The Art of Microsurgery–Lessons Learned</i>	CNS meeting, Plenary Session, Chicago, IL	2012
<i>Managing Desperate Intraoperative Moments</i>	CNS meeting, Plenary Session, Chicago, IL	2012
<i>Operative Nuances for Managing Complex Cranial Cases</i>	AANS Meeting, Plenary Session, Miami, FL	2012
<i>Operative Nuances for Cranial and Skull Base Procedures: A Cadaveric and Case-Based Microsurgical Presentation</i>	AANS Weekend Practical Clinic, Miami, FL	2012
<i>Using Stereoscopic 3D Video Recording in Neurosurgery Practice and Education</i>	AANS Breakfast Seminar, Miami, FL	2012
<i>Tackling Difficult Cranial Cases: A Step-by-Step Case-Based Presentation</i>	AANS Weekend Practical Course	2013
<i>Intraoperative CT for Trigeminal Neuralgia</i>	AANS Scientific Session	2013
<i>Nuances of Intracranial Surgery: An Interactive 3D Video Presentation</i>	AANS Afternoon Plenary Session	2013
<i>Nuances of Cerebrovascular Surgery: An Interactive 3D Video Presentation</i>	AANS Afternoon Plenary Session	2013
<i>Tackling Technical Challenges in Aneurysm and AVM Surgery</i>	CNS meeting, Plenary Session, San Francisco, CA	2013
<i>Expanding the Operative Corridor for Difficult-to-Reach Tumors</i>	CNS meeting, Plenary Session, San Francisco, CA	2013
<i>Surgical Management of Meningiomas</i>	CNS Luncheon Seminar, San Francisco, CA	2013
<i>Techniques to Advance the Efficacy and Safety of Microneurosurgery</i>	CNS meeting, Plenary Session, San Francisco, CA	2013
<i>Intraoperative Complication Avoidance and Management</i>	CNS meeting, Plenary Session, San Francisco, CA	2013
<i>How to Tackle Difficult Cranial Cases: A Step-by-Step 3D Case-Based Presentation</i>	AANS Meeting, Sunday Practical Course	2014
<i>Fluorescent Technologies in Neurosurgery: Present and Future Directions</i>	AANS Meeting, Breakfast Seminar, San Francisco, CA	2014
<i>Operative Nuances I: Tackling Challenging Cases</i>	AANS Meeting, 3D Session, San Francisco, CA	2014
<i>Operative Nuances II: Complication Avoidance</i>	AANS Meeting, 3D Session, San Francisco, CA	2014
<i>Techniques to Advance Safety and Efficacy in Microneurosurgery</i>	CNS Meeting, Boston, MA	2014
<i>Intraoperative Complication Avoidance and Management</i>	CNS Meeting, Boston, MA	2014
<i>3D-Supratentorial Anatomy (Rhoton’s Course)</i>	CNS Meeting, Boston, MA	2014
<i>3D-Infratentorial Anatomy (Rhoton’s Course)</i>	CNS Meeting, Boston, MA	2014
<i>Emerging Technologies in Tumor Visualization and Therapy</i>	Section on Tumors; CNS Meeting, Boston	2014
<i>Endoscopic and Keyhole Approaches to the Anterior Skull Base: Endoscopic Assisted Minimally Invasive Cranial Surgery</i>	Practical Course; CNS Meeting, Boston	2014
<i>How to Tackle Difficult Cranial Cases: A Step-by-Step 3D Case-Based Presentation</i>	AANS Meeting, Washington DC–Sunday Practical Course	2015
<i>3D-Supratentorial Anatomy (Rhoton’s Course)</i>	AANS Meeting, Washington DC	2015
<i>Practical and Technical Aspects of Transsphenoidal Surgery</i>	AANS Meeting, Washington DC–Practical Course	2015
<i>Fluorescence Technologies in Neurosurgery: Present and Future Directions</i>	AANS Meeting, Washington DC–Breakfast seminar	2015
<i>Operative Nuances I: Tackling Challenging Cases</i>	AANS Meeting, Washington DC–Plenary Session	2015

<i>Operative Nuances II: Complication Avoidance</i>	AANS Meeting, Washington DC–Plenary Session	2015
<i>Targeting MDM2 Signaling Network Decreases Resistance to Temozolomide in a Human Glioblastoma Multiforme Xenograft Model</i>	AANS Meeting, Washington DC–Scientific Session–Oral Presentation	2015
<i>A Long-Term Study of Durability and Risk Factors for Aneurysm Recurrence after Clip Ligation</i>	AANS Meeting, Washington DC–Scientific Session–Oral Presentation	2015
<i>3D-Supratentorial Anatomy (Rhoton’s Course)</i>	CNS Meeting, New Orleans	2015
<i>3D-Infratentorial Anatomy (Rhoton’s Course)</i>	CNS Meeting, New Orleans	2015
<i>Practical and Technical Aspects of Transsphenoidal Surgery</i>	AANS Meeting, Chicago–Practical Course	2016
<i>Operative Nuances I: Tackling Challenging Cases</i>	AANS Meeting, Chicago	2016
<i>Operative Nuances II: Complication Avoidance</i>	AANS Meeting, Chicago	2016
<i>Complex Skull Base and Brain Tumor Surgery: 3D Surgical Anatomy and Technical Nuances</i>	CNS Meeting, San Diego	2016
<i>Surgery/SRS for Benign Tumors</i>	CNS Meeting, San Diego	2016
<i>Society of Neurological Surgeons Chief/Senior Resident Course (Co-Director)</i>	AANS Meeting, Los Angeles	2017–2019
<i>Operative Nuances I: Handling Difficult Intraoperative Moments</i>	AANS Meeting, Los Angeles	2017
<i>Operative Nuances II: How to Stay Out of Trouble During Microsurgery</i>	AANS Meeting, Los Angeles	2017
<i>Intraoperative Assessment of Tumor and Resection Margins During Glioma Resection by Desorption Electrospray Ionization Mass Spectroscopy</i>	American Academy of Neurological Surgery	2017
<i>3D-Surgical Supratentorial Anatomy (Rhoton’s Course)</i>	CNS Meeting, Boston, MA	2017
<i>3D-Surgical Infratentorial Anatomy (Rhoton’s Course)</i>	CNS Meeting, Boston, MA	2017
<i>Operative Nuances I: Posterior Fossa Surgery and Intraoperative Challenges</i>	AANS Meeting, New Orleans, LA	2018
<i>Operative Nuances II: Challenging Operative Moments During Microsurgery</i>	AANS Meeting, New Orleans, LA	2018
<i>Advanced Endoscopic Surgical Techniques</i>	AANS Meeting, New Orleans, LA	2018
<i>Neuroanatomy of Complex Cranial Cases</i>	CNS Meeting, San Francisco, CA	2019
<i>Miami Cerebrovascular and Skull Base International Symposium</i>	Miami Cerebrovascular and Skull Base International Symposium	2020
<i>Management of Paraclinoid Aneurysms</i>		
<i>Intraoperative Complications in Cerebrovascular surgery: Psychology, Definitions and Management</i>		
<i>CNS Modern Microsurgery Webinar Series (X4)</i>	Congress of Neurological Surgeons	2020
<i>Basic and Advanced Microsurgical Techniques</i>		
<i>Clip Ligation of Aneurysms in Endovascular Era</i>		
<i>Resection of cavernomas and AVMs</i>		
<i>Managing Difficult Moment in Cranial Surgery</i>		
<i>CNS/SNO Virtual Brain Tumor Board (X4)</i>	Congress of Neurological Surgeons	2020-21
<i>High Grade Glioma</i>		
<i>Low Grade Glioma</i>		
<i>Metastatic Lesions</i>		
<i>Advanced Neurosurgical Education in the Digital Age: The Neurosurgical Atlas Experience</i>	International Society for Medical Innovation and Technology	2020
<i>Acoustic Tumors: The Case for Surgical Resection</i>	Miami Cerebrovascular and Skull Base International Zoomposium	2021

<i>Case Discussion: Management of Orbital Tumors</i>	2021 Society of Neuro-Oncology (SNO) Meningioma Day	2021
<i>Microsurgery Masters: Lessons Learned</i>	AANS Meeting, Philadelphia	2022
<i>Complex Cerebrovascular Surgery in the Era of Endovascular Therapy</i>	AANS Meeting, Philadelphia	2022
<i>VR, AR, and AI in Cerebrovascular Surgery</i>	AANS Meeting, Philadelphia	2022
<i>Medtronic Cranial Consortium</i> <i>Building your Brand</i> <i>Influence of Innovation in Operating Room</i> <i>Dealing with Intraoperative Misadventures</i> <i>Beyond Training, Mentorship, Merit</i> <i>The next big Thing in Surgical Innovation</i>	Denver	July 2022
<i>ATLAS 3D Session: Inspiring Operative Moments</i>	AANS Meeting, Los Angeles	April 2023
<i>ATLAS 3D Session: Challenging Operative Moments</i>	AANS Meeting, Los Angeles	April 2023
<i>Controversies in Management of Brain Metastases: Surgery Remains the Standard of Care</i>	AANS Meeting, Los Angeles	April 2023
<i>Controversies in Management of Brain Metastases: Case Discussion</i>	AANS Meeting, Los Angeles	April 2023
<i>Revolutionizing Operative Planning Using AI and Virtual Twins: The Next Frontier</i>	CNS Data Science Models for Neurosurgeons Course	June 2023
<i>Transforming Neurosurgery Through Technology: The Innovation Symposium</i>	CNS meeting, Houston, Texas	Sept 2024
<i>Entrepreneurship in Neurosurgery: Pearls and Pitfalls</i>	Council of State Neurosurgical Societies (CSNS) Resident Fellow Education Series	March 2025
<i>AI and Neurosurgery for Operative Planning</i>	Society for Brain Mapping and Therapeutics Annual Congress, Los Angeles	March 2025

INTERNATIONAL		
<i>Visiting Professor: Resection of Insular Gliomas: Lessons Learned</i>	Hadassah University, Jerusalem	June 2010
<i>Operative Techniques in Complex Cranial Surgery</i>	Egyptian Society of Neurological Surgeons; Alexandria, Egypt	Sep 2014
<i>Operative Techniques in Minimally Invasive Cranial Surgery (live surgery and lecture)</i> <i>CPA Surgery for Neurovascular Conflicts</i>	Italian Society of Neurosurgery	Feb 2015
<i>Fluorescent Techniques for Management of Brain Tumors and Complex Aneurysms</i>	Mexican Neurosurgical Society Meeting, Mazatlán	Aug 2015
<i>Mastery of Neurosurgical Techniques: Lessons from the Neurosurgical Atlas</i>	Morocco Neurosurgical Society Meeting	May 2020
<i>Moderator: Surgery of the Posterior Fossa and Brainstem</i> <i>Speaker: Surgery for Pineal Region Tumors/ Art of Microneurosurgery and Decision Making</i>	2nd Rhoton Society Meeting and 8th International Zoomposium on Microneurosurgical Anatomy	Sept 2020
<i>Resection of Acoustic Neuromas: Personal Reflections</i>	CNS Hot Topics & Experts' Perspective: International Stereotactic Radiosurgery Society	Oct 2020

<i>Resection of AVMs: Personal Reflections and Lessons Learned</i>	Chinese National Conference on Microinvasive Neurosurgery, Nanjing City, Jiangsu Province, China	Oct 2020
<i>Resection of Foramen Magnum Meningiomas: Maximizing Efficiency and Outcomes</i>	The Turkish Skull Base Course: Masters with Turkish Rhoton Fellows Group	Nov 2020
<i>Personal Reflections in AVM Surgery</i>	International Brain AVM Conference 2020	Nov 2020
<i>Surgery of Pineal Region Tumors</i>	University of Toronto Neurosurgery Residency Academic Half Day Program	March 2021
<i>Surgery of Middle Cerebral Artery Aneurysms</i>	Israeli Neurosurgical Society	May 2021
<i>Technical Pearls for Resection of AVMs</i>	Israeli Neurosurgical Society	May 2021
<i>Resection of Pineal Region Tumors</i>	World Federation of Skull Base Societies	July 2021
<i>Mastery in Microneurosurgery: The Art and the Passion</i>	Turkish Neurosurgical Society: Monthly Webinars and Meeting with the Masters	Sept 2021
<i>Managing Difficult Moments in AVM Surgery</i>	7 th Annual Meeting of Cerebrovascular Disease Committee of Chinese Research Hospital Association	Dec 2021
<i>Paramedian Supracerebellar Approach for Large Pineal Region Tumors</i>	World Academy of Neurological Surgery Salt Lake City, UT	April 2022
<i>Complications Management in AVM Surgery</i>	Brazilian Neurosurgical Society: Neurosurgical Master Class	June 2022
<i>Neurosurgical Education of the Future: The Atlas Platform Vision</i>	The EANS (European Association of Neurosurgical Societies) Young Neurosurgeon's Committee	June 2022
<i>AVM Surgery: The Ultimate Neurosurgeon's Test of Fitness</i>	XX Brazilian Congress of Neurosurgery	Sept 2022
<i>Management of Challenging Cases: Lessons Learned</i>	35 th Pakistan Society of Neurosurgeons	Nov 2022
<i>High-Flow and Low-Flow Revascularization: Nuances of Techniques</i>	Mikros International School of Microsurgery, Milan Italy	Sept 2022
<i>Management of "Inoperable" AVMS: Personal Reflections</i>	Society of Neurosurgeons of South Africa	Sept 2022

<i>Resection of Challenging Acoustic Neuromas: Techniques to Advance Outcomes</i>	Symposium of Precision Surgery in Neurosurgery: Taichung Veterans General Hospital-International Conference, Taichung, Taiwan	Oct 2022
<i>A Life in Neurosurgery: Lessons Learned from 7000 Craniotomies</i>	Kartal Dr. Lutfi Kirdar City Hospital Istanbul, Turkey	Nov 2022
<i>Personal Journey and Reflections: A Life in Neurosurgery</i>	Alfaisal Neurological Surgery Bootcamp Riyadh, Saudi Arabia	Aug 2023
<i>Future of Neurosurgery and Residency Training</i>	Hamad General Hospital, Dept of Neurosurgery Doha, Qatar	Sept 2023
<i>Resection of Pineal Region Tumors via the Paramedian Supracerebellar Approach</i>	Neurosurgical Masterclass Program of the Brazilian Society of Neurosurgery	Oct 2023
<i>Acoustic Neuramas: Techniques and Maneuvers to Advance Surgical Outcomes</i>	University of Health Sciences, Istanbul Umraniye Training and Research Hospital, Department of Neurosurgery, Turkey	Dec 2023
<i>Techniques for Resection of High-Risk Tumors in the Posterior Fossa</i>	Universidad el Bosque, Bogotá, Colombia and Faculty of Medicine, Universidad de los Andes with Fundación Santa Fe de Bogotá, Colombia	March 2024
<i>Life in Neurosurgery: Lessons Learned Surgery of Acoustic Neuromas: How Do I Do it?</i>	Society of Ethiopian Neurological Surgery Professionals: 6th Annual Meeting (SENSP)	May 2024
<i>Lessons Learned in Managing over 2000 Complex Cerebrovascular Cases</i>	International Symposium of Neurovascular and Endovascular Treatments Iran University of Medical Sciences Tehran, Iran	Sept 2024
<i>Resection of Pineal Region Tumors: Reflection on 120 Cases</i>	Congress of Polish Society of Neurosurgeons Katowice, Poland	Sept 2025
<i>What Have I Learned from 8000 Craniotomies: What Would I Do Differently?</i>		

GRANTS/FELLOWSHIPS IN RESEARCH

ACTIVE RESEARCH GRANTS/FELLOWSHIPS

Title	Granting Agency	Role	Effort	Amount	Dates
R37 CA265926 Engineer Biomimetic Microfluidic Models to Investigate and Reprogram Tumor Associated Neutrophils for Cancer (Glioblastoma) Therapy	NIH/NCI	Role: PI at Indiana University; Bao (PI at Purdue University)	20%	\$358,885	2022- 2027

COMPLETED RESEARCH GRANTS/FELLOWSHIPS

Patient-Specific Modeling of Flow and Fluid-Structure Interaction in a Cohort of Patients with Multiple Cerebral Aneurysms	Brain Aneurysm Foundation	Co-Investigator	5%	\$25,000	11/1/2021-10/31/2022
R01 CA203893 Hao C (PI) SUMO1 inhibition compound as a new anticancer drug for glioblastoma therapy	NIH/NCI	Co-Investigator	5%	\$25,000	2018-2021
Role of docosaheptaenoic acid levels in brain tumor development	Indiana Clinical and Translational Sciences Institute	Co-Investigator	10%	\$100,000	2014-2016
Evaluation of proangiogenic circulating hematopoietic stem and progenitor cells (pCHSPCs) as a biomarker of treatment response or tumor recurrence in patients with GBM	IU Simon Cancer Center	Principle Investigator	15%	\$29,700	2014-2016
Signature Center for Neurological and Brain tumors	Indiana University	Co-Principle Investigator	20%	\$300,000	2013-2016
Neurotelemetric analysis of neurological outcomes in patients undergoing therapeutic hypothermia following cardiac arrest	Clarian Values Fund for Research Grant	Co-Investigator	10%	\$80,000	2010-2012
Identification of brain-permeable HDM2 antagonists to treat pediatric and adult brain tumors	Neurosurgery Foundation for Goodman Campbell Brain and Spine	Co-Principle Investigator	10%	\$100,000	2012-2013
Therapy-induced DNA damage response kinetics in nervous system tumors measured by imaging flow cytometry using the ImageStreamX Mark II	Indiana Clinical and Translational Sciences Institute	Co-Investigator	5%	10,000	2013-2014
Analysis of human glioblastoma stem-like cells by multi-parametric flow cytometry	IU Simon Cancer Center	Co-Investigator	5%	20,000	2013-2014

FUNDRAISING/PRIVATE PHILANTHROPY

Atlas Foundation: \$4.5M (2010 to date) and \$5M planned. Work in progress for additional significant funds (\$9M.)

SERVICE

DEPARTMENT		
Activity	Role	Inclusive Dates
Indianapolis Neurosurgical Group Education and Research Committee	Member	2006-2010

Search and Screen Committee for new Chair of the IU Department of Neurosurgery	Member	2010–2011
IU Health Neuroscience Center	CME/Research Committee Member	2012–2024
Annual IU Health Brain Tumor Symposium	Co-Director	2012–2024
Neurosurgical Oncology Fellowship—IU Dept of Neurosurgery-CAST accredited	Director	2012–2024
Evaluating the Residents’ Learning Milestones	For Cerebrovascular Surgery	2013–
Clinical Competency Committee	Faculty	2013–
Annual IU Health Cerebrovascular Symposium	Faculty	2013–
Neurosurgery Promotion & Tenure Committee	Member	2017–2022
	Chair	2022–

SCHOOL

Indiana Center for Brain Rehabilitation, Advanced Imaging, and Neuroscience	Advisory Council Member	2010–
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CAMPUS

IU Simon Cancer Center Brain Tumor Working Group	Co-Director (Mentoring clinicians and basic scientists regarding their research projects)	2012–2024
Indiana University Melvin and Bren Simon Cancer Center	Member	2013–2024

UNIVERSITY

Organizational Leadership and Supervision Course: Interpersonal Skills for Leaders	Faculty member	2012–2024
IU School of Medicine Faculty Development Coordination Committee	Executive member	2013–2014
Peer Review and Mentoring Committee for Neuroscience/Cancer Research Grant proposals	Executive Member	2013–2024
Search and Screen Committee for new Chair of the IU Department of Radiation Oncology	Executive member	2013–2014
Indiana University Signature Center for Neurological and Brain Tumors	Co-Director	2013–2024
Search and Screen Committee for Director of IU Neuro-Oncology	Member	2017–2018

COMMUNITY SERVICE

Project Health (sponsored by the Indianapolis Medical Society)	Volunteer Physician and Surgeon (Project Health is a community partnership to improve access to health care for low-income, uninsured residents of Indianapolis)	2010–2024
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PROFESSIONAL SERVICE NATIONAL

Council of State Neurosurgical Societies (CSNS)	Midwestern delegate	2002–2003
	CNS representative	2004–2010
American Epilepsy Society	Membership Committee	2002–2005
	Annual Course Committee	2007–2010

Young Neurosurgeons Committee (YNC) of the American Association of Neurological Surgeons (AANS)	History Section Liaison	2004–2008
	Publication Committee Liaison	2005–2008
	YNC Newsletter (Assistant Editor)	2008
	NREF Silent Auction Committee	2009
AANS/CNS Section on Tumors Executive Committee	Member	2009–present
	Simulation and Technology Committee	2020–2022
American Association of Neurological Surgeons (AANS)	History Section Committee	2004–2007
	Publication Committee	2005–2012
	Membership Committee	2007–2010
	Washington Committee: Quality Improvement Workgroup	2008–
	Chairman: Publication Committee	2011–2012
	Member Benefit Development Committee	2011–2013
	Annual Meeting Abstract Reviewer	2012
	Information Technology Committee	2012–2014
	Education and Practice Management Committee	2013–2016
	Nominating Committee	2015–2016
	AANS Board of Directors (Director-at-Large)	2018–2021
	<i>Journal of Neurosurgery</i> Finance Committee	2018–2021
	NREF Education Committee	2019–2022
Congress of Neurological Surgeons (CNS)	Annual Scientific Program Committee	2010–2019
The Hemispherectomy Foundation	Medical Advisory Board	2010–present
	Grant Evaluation Committee	2010–present
Brain Aneurysm Foundation	Medical Advisory Board	2012–present
Society of Neurological Surgeons	Core Portal Subcommittee	2012–present
	Junior Resident Course: Introduction to the Operating Room and Leadership	May 29–31, 2014
	Junior Resident Course: Introduction to the Operating Room and Leadership	Apr 17, 2015
	Inducted	2019
	Curriculum Subcommittee	Oct 2020
American Board of Neurological Surgery	Guest examiner for Oral Boards	May 6–9, 2014
American Stroke Association	Annual Meeting Abstract Reviewer	Sept 6–9, 2016

INTERNATIONAL

International Brain Mapping and Intra-operative Surgical Planning Society	Board of Directors	2008–2009
	Chairman–Brain Mapping Fellowship	2008–2009
World Federation of Neurosurgical Societies	International Initiatives Committee	2011–present
<i>Neurosurgical Focus</i>	Topic Editor for the Feb 2014 issue on <i>Applications of Fluorescent Technology in Neurosurgery</i>	2013
	Topic Editor for the Sep 2014 issue on <i>AVMs: Strategies for Management and Outcome</i>	2014

INTERNATIONAL SERVICE TO PROFESSIONAL JOURNALS (Editorial Board)

Associate Editor-in-Chief, The *Neurosurgical Focus (Journal of Neurosurgery)*

- JNSPG Journal Club Moderator

Board Member and Feature Topic Editor, The *WORLD NEUROSURGERY* Journal

Journal	Activity	Inclusive Dates
<i>Journal of Neurosurgery</i>	Editorial Board	2012–Present
<i>Neurosurgery</i>	Editorial Board	2012–Present
<i>Operative Neurosurgery</i>	Editorial Board	2012–Present
<i>World Neurosurgery</i>	Editorial Board	2019–Present
<i>Clinical Anatomy</i>	Editorial Board	2012–present
<i>Practical Reviews in Neurosurgery</i>	Editorial Board	2003–2005
<i>Neurology India</i>	Editorial Board	2003–present
<i>Journal of Pediatric Neurology</i>	Editorial Board	2007–present
<i>Eastern Journal of Medicine</i>	Associate Editor	2010–present
<i>Biomedicine International</i>	Editor-in-Chief	2009–2011
<i>International Journal of the History of Medicine</i>	Editorial Board	2009–present
<i>World Journal of Radiology</i>	Editorial Board	2009–present
<i>American Family Physician</i>	Editorial Advisory Board	2011–2014
<i>Neurosurgical Focus</i>	Editorial Board	2011–present

INTERNATIONAL SERVICE TO PROFESSIONAL JOURNALS (Ad Hoc Reviewer)

Journal	Inclusive Dates
<i>Neurological Research</i>	2008–present
<i>Life Sciences</i>	2009–present
<i>NeuroImage</i>	2009–present
<i>Clinical Endocrinology</i>	2009–present
<i>Clinical Neurology and Neurosurgery</i>	2009–present
<i>Journal of Pediatric Epilepsy</i>	2010–present
<i>Childs Nervous System</i>	2010–present
<i>Seizure</i>	2010–present
<i>Journal of Neuro-Oncology</i>	2010–present
<i>Epilepsia</i>	2010–present
<i>Neurology</i>	2010–present
<i>Journal of Neurosurgical Sciences</i>	2013–present
<i>British Journal of Neurosurgery</i>	2013–present
<i>Journal of Neurological Surgery-A</i>	2013–present
<i>Surgical Neurology International</i>	2014–present

<i>European Journal of Epilepsy</i>	2014–present
<i>Neurosurgical Review</i>	2014–present
<i>Journal of Neurology, Neurosurgery, and Psychiatry</i>	2014–present
<i>New England Journal of Medicine</i>	2014–present
<i>Journal of Child Neurology</i>	2014–present

PATIENT CARE/CLINICAL SERVICE

Brain Tumor and Skull Base Surgery

Perform a large portion of brain tumors, including gliomas and meningiomas in the department. This effort includes collaboration with all members of the neuro-oncology team. Perform complex skull base procedures for resection of acoustic neuromas, petroclival meningiomas, and anterior skull base lesions, including pituitary tumors. Serve as the primary surgeon in Department managing complex brain tumors requiring cortical/subcortical mapping. Clinical research includes creation of a Brain Tumor Bank and collaboration with basic scientists to advance brain tumor research (principal collaborator: Karen Pollok, IU Simon Cancer Center). Other research efforts include fluorescence-guided resection of high-grade gliomas and intraoperative mass-spectroscopy tumor analysis.

Cerebrovascular Surgery

Perform the largest portion of the aneurysm and arteriovenous malformation cases managed through clip ligation/bypass and resection in the department. Supervise maintenance of the aneurysm database and related clinical research. Directed creation of the AVM Specimen Bank.

INVITED PRESENTATIONS—SERVICE

LOCAL		
Title	Organization	Date
<i>Operating on the “Inoperable”: Conquering Surgical Challenges to Help Our Patients</i>	Rotary Club of Indianapolis	Sept 2010
<i>From a Refugee to a Brain Surgeon: The Trials and Tribulations Continue</i>	Etz Chaim Temple	Feb 2017
<i>Leadership and Service: Personal Reflections</i>	Carmel Police and Fire Department’s Awards and Recognition Banquet	Feb 2019
REGIONAL		
Free consultation for patients during the meeting	Acoustic Neuroma Association, Cincinnati, OH	2011

NATIONAL AND INTERNATIONAL LIVE WEB CONFERENCES FOR PATIENTS (archived at <https://www.neurosurgicalatlas.com/patient-resource-center>)

Prepared for the Brain Aneurysm Foundation, Trigeminal Neuralgia Association, Acoustic Neuroma Association and Pituitary Network Association

Title	Author(s)/Speaker(s)	Date
<i>General Information for Trigeminal Neuralgia</i>	Cohen-Gadol AA	Dec 1, 2009
<i>General Information for Aneurysms</i>	Cohen-Gadol AA	Dec 1, 2009
<i>General Information for Acoustic Neuromas</i>	Cohen-Gadol AA	Dec 2, 2009
<i>General Information for Pituitary Tumors</i>	Cohen-Gadol AA	Dec 2, 2009

<i>General Information for Meningiomas</i>	Cohen-Gadol AA	Dec 2, 2009
<i>General Information for Gliomas</i>	Cohen-Gadol AA	Dec 2, 2009
<i>General Information for Tumor Diagnosis</i>	Cohen-Gadol AA	Dec 2, 2009
<i>General Information for Chordomas</i>	Cohen-Gadol AA	Dec 2, 2009
<i>Anterior Communicating Artery Aneurysm</i>	Cohen-Gadol AA	Jan 16, 2010
<i>Advances in Vascular Microsurgery: Application of Fluorescence Video Angiography</i>	Cohen-Gadol AA	Jun 22, 2011
<i>Pituitary Tumors: General Information for Patients</i>	Cohen-Gadol AA	Jun 22, 2011
<i>General Information for Patients with Brain Aneurysms</i>	Cohen-Gadol AA	Jun 22, 2011
<i>Brain Aneurysm and Subarachnoid Hemorrhage: An Open Forum of Questions and Answers</i>	Oligvy C and Cohen-Gadol AA	Jun 29, 2011
<i>Brain Aneurysms and Subarachnoid Hemorrhage: What the Caregivers Need to Know</i>	Palmer E, Bailey S, and Cohen-Gadol AA	Jul 27, 2011
<i>Hemifacial Spasm: Diagnosis, Medical, and Surgical Management (Microvascular Decompression)</i>	Cohen-Gadol AA	Aug 19, 2011
<i>Rehabilitation After Subarachnoid Hemorrhage: How Can We Accelerate Recovery</i>	Cohen-Gadol AA, Palmer E, Buchanan S, Murphy S, and Arness T	Sep 28, 2011
<i>Microvascular Decompression Surgery for Trigeminal Neuralgia</i>	Cohen-Gadol AA	Oct 27, 2011
<i>Mood and Sleep Disorders Associated with Subarachnoid Hemorrhage</i>	Carbone A and Cohen-Gadol AA	Nov 15, 2011
<i>Unveiling the Mysteries of Brain Aneurysm Treatment: Coil and Clip</i>	Cohen-Gadol AA	Jan 27, 2012
<i>The Differential Diagnosis of One's Worst Headache</i>	Biller J and Cohen-Gadol AA	Feb 22, 2012
<i>Commonly Asked Questions in the Management of Unruptured Intracranial Aneurysms</i>	Brown R and Cohen-Gadol AA	Mar 22, 2012
<i>New Endovascular Options for Brain Aneurysms: Flow Diverters</i>	Lanzino G and Cohen-Gadol AA	Apr 26, 2012
<i>The Many Faces of Middle Cerebral Artery Aneurysms</i>	Newell D and Cohen-Gadol AA	Jun 28, 2012
<i>Answers to Important Aneurysm Treatment Questions with the Executive Director of BAF</i>	Buckley C and Cohen-Gadol AA	Aug 13, 2012
<i>Management of Neurovascular Headaches</i>	Rosen N and Cohen-Gadol AA	Nov 13, 2012
<i>"I've Got a What?" General Information for Patients Just Diagnosed with a Brain Aneurysm</i>	Singer R and Cohen-Gadol AA	Jan 10, 2013
<i>Managing Cognitive, Social and Emotional Challenges After Ruptured or Treated Aneurysms—Part I</i>	Kamath S and Cohen-Gadol AA	Feb 20, 2013
<i>Managing Cognitive, Social and Emotional Challenges After Ruptured or Treated Aneurysms—Part II</i>	Kamath S and Cohen-Gadol AA	Mar 20, 2013
<i>Cerebral Aneurysm Imaging Surveillance and Radiation Effects</i>	Leever J, Reeves A, and Cohen-Gadol AA	May 10, 2013
<i>The Brain Aneurysm Foundation: The Importance of Patient Advocacy and Support Groups</i>	Buckley C and Cohen-Gadol AA	Jun 12, 2013
<i>Recovery and Outcome After Subarachnoid Hemorrhage</i>	Mazwi NL and Cohen-Gadol AA	Jul 25, 2013
<i>Risk Factors for Intracranial Aneurysm</i>	Ahuja A and Cohen-Gadol AA	Oct 2, 2013
<i>Minimally Invasive Treatment of Brain Aneurysms</i>	Fiorella D and Cohen-Gadol AA	Jan 30, 2014
<i>Nuts and Bolts of Treatments for Brain Aneurysms</i>	Du U	Mar 25, 2014
<i>Microsurgical Resection of Acoustic Neuromas: What the Patient Needs to Know</i>	Cohen-Gadol AA	May 14, 2014
<i>Vascular Replication: A New Paradigm for Endovascular Training</i>	Woo H and Cohen-Gadol AA	May 20, 2014
<i>Estrogen and Brain Aneurysms</i>	Chen M and Cohen-Gadol AA	Jul 24, 2014
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