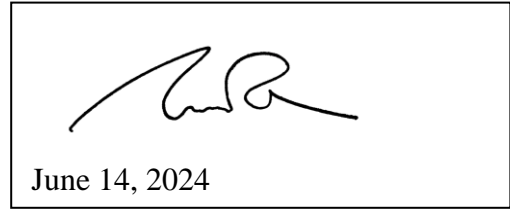


CURRICULUM VITAE

NAME: Nader Pouratian MD PhD

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EDUCATION:

B.S., Neuroscience, Summa Cum Laude, College Honors University of California, Los Angeles	1996
Ph.D., Neuroscience Inter-Departmental Graduate Program Mentor: Arthur W. Toga, PhD University of California, Los Angeles	2001
Certificate of Graduate Study in NeuroImaging UCLA Laboratory of NeuroImaging	2001
M.D., Medical Scientist Training Program David Geffen School of Medicine at UCLA	2003
Internship, General Surgery University of Virginia	2004
Fellowship, Functional Neurosurgery (enfolded) University of Virginia	2006
Fellowship, Neurosurgery Auckland City Hospital (Auckland, New Zealand)	2008
Residency, Neurological Surgery University of Virginia	2009

LICENSURE:

Medical Board of California, A109384	2009
Texas Medical Board, T0601	2021
Oklahoma, 40776	2022
Louisiana, 334505	2022
New Mexico, TM2023-1108	2023

BOARD CERTIFICATION:

Certified, American Board of Neurological Surgery Written examination: Score 703 Percentile: >98	2014
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PROFESSIONAL EXPERIENCE:

<p>Professor and Chair Lois C.A. and Darwin E. Smith Distinguished Chair Department of Neurological Surgery UT Southwestern Medical Center</p>	<p>2021-present</p>
<p>Vice-Chair, Academic Affairs Co-Vice Chair, Clinical Affairs Department of Neurosurgery David Geffen School of Medicine at UCLA University of California, Los Angeles</p>	<p>2018-2021 2017-2018</p>
<p>Professor Department of Neurosurgery Neuroscience Interdepartmental Program Department of Bioengineering Department of Radiation Oncology University of California, Los Angeles</p>	<p>2019-2021</p>
<p>Associate Professor Department of Neurosurgery Neuroscience Interdepartmental Program Department of Bioengineering Department of Radiation Oncology University of California, Los Angeles</p>	<p>2015-2019</p>
<p>Assistant Professor Department of Neurosurgery Neuroscience Interdepartmental Program Department of Bioengineering University of California, Los Angeles</p>	<p>2009-2015</p>
<p>Chief Resident Department of Neurological Surgery University of Virginia</p>	<p>2008-2009</p>
<p>Fellow Department of Neurosurgery Auckland City Hospital, New Zealand</p>	<p>2007-2008</p>
<p>Fellow, Functional Neurosurgery (enfolded) Department of Neurological Surgery University of Virginia</p>	<p>2006</p>

Resident Department of Neurological Surgery University of Virginia	2004-2008
Intern Department of Surgery University of Virginia	2003-2004

PROFESSIONAL ACTIVITIES:

Committee service

University of Virginia Discharge-by-noon committee	2004-2005
CNS Self Assessment in Neurological Surgery	2005-2017
CNS Education Committee	2006-present
UCLA Neurosurgery Quality Assurance Chair and Quality Officer	2010-2018
UCLA Subcommittee for Trauma Patient Care	2010-2018
UCLA Neurosurgery Faculty Search Committee, Chair	2013-2014
UCLA Alfonsina Q. Davies Endowed Chair for Epilepsy Research Search Committee, Member	2014
UCLA Santa Monica Cranial Neurosurgery Committee	2013-2016
UCLA Neurosurgery Executive Council	2014-2021
UCLA Neurosurgery Spine Faculty Search Committee, Member	2014-2015
UCLA Faculty Practice Group Quality Measurement And Improvement Committee	2014-2018
UCLA DGSOM Faculty Executive Committee	2016-2017
Vice-Chair and Chair-Elect	2017-2019
Chair	2019-2021
Congress of Neurological Surgeons Guidelines Committee	2016-present
UCLA Neurosurgery Vascular Faculty Search Committee, Member	2016
UCLA CTSI Scientific Review Committee	2016-2021
UCLA DGSOM Geffen Scholarship Committee	2017-2018
UCLA Academic Senate, Council on Research – Faculty Grants Program Committee	2017-2021
UCLA Neurosciences Faculty Search Committee, Member	2017-2018
UCLA Psychiatry Neuromodulation Faculty Search Committee	2018
UCLA Neurosurgery Neurotrauma Faculty Search Committee, Chair	2018-2019
UCLA Office of Clinical Research Quality Improvement Committee	2018-2019
UCLA Neuroscience-Neurology Parkinson Search Committee	2019
UCLA Neurology Movement Disorders Search Committee	2019
UCLA Psychiatry Chair Search Committee	2019
UTSW Professional Liability Advisory Committee	2021-present
UTSW Radiology Chair Search Committee, Chair	2023
UTSW Executive Committee of Medical Group	2023-present

Professional and scholarly associations

Congress of Neurological Surgeons Member	2004-present
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Executive Council, Member At large	2016-2018
Vice Chair, Scientific Program Committee	2017-2018
Chair, Scientific Program Committee	2018-2019
Annual Meeting Chair	2019-2020
Chair, Guidelines Committee	2018-2020
Chair, Education Committee	2020-2023
Vice President	2023-2024
Member, American Association of Neurological Surgeons	2004-present
American Society of Stereotactic Functional Neurosurgery	
Member	2009-present
Executive Council	2016-present
Chair, Scientific Program Committee	2018
Chair, Bylaws Committee	2020-2022
Co-Chair, Psychiatric Neurosurgery Committee	2020-present
Co-Chair, Neuroethics Committee	2020-present
Member, American College of Surgeons	2009-present
Member, North American Neuromodulation Society	2009-present
Chair, Scientific Program Committee	2020-2021
Member, International Neuromodulation Society	2009-present
Member, Organization for Human Brain Mapping	2013-2020
Member, Neural Control of Movement Society	2022-2023
Member, Society for Neuroscience	2023-present
Member, Society of Neurological Surgeons	2023-present

Editorial services

Editorial Board

The Open Medical Imaging Journal	2006-2009
Biomed Research International	2013-2017
CNS University, Functional Neurosurgery	2013-2015
CNS Neurosurgery Watch	2013-2017
PLOS One	2014-2019
Surgical Neurology International	2015-2022
Operative Neurosurgery	2016-present
Neurosurgery	2019-present
Neuromodulation	2020-present
Frontiers in Pain Research, Neuromodulatory Interventions	2021-present

Manuscript review

NeuroImage
 NeuroReport
 Journal of Neurosurgery
 Journal of Neuroscience Methods
 Neurocritical care
 Brain Research Bulletin
 Cancer
 Neurosurgery
 Journal of NeuroOncology

Neurology Research International
 Spinal Cord Injury
 Clinical Neurophysiology
 Neurosurgery
 Focused Ultrasound Foundation
 Biomedizinische Technik - Biomedical Engineering
 PLOS One
 Experimental Neurology
 Neuromodulation: Technology at the Neural Interface
 PLOS
 JAMA Neurology
 Neuron
 Nature Neuroscience

SANS:Self Assessment in Neurological Surgery	
Resident Editorial Assistant	2005-2009
Managing Editor	2009-2013
Vice Chair	2013-2016
Chair	2016-2017
Guest Editor	
Neurosurgical Focus	2009, 2020
Neurology Research International	2012
Neurosurgery Clinics North America: Neuromodulation	2013

Teaching

The Berkley Review (Los Angeles, CA) <i>MCAT Teacher and Tutor</i>	1995
UCLA School of Medicine <i>Teaching Assistant, Neuroanatomy</i>	1998-2001 2010-2017
UCLA College of Letters and Science <i>Teaching Assistant, Cognitive Neuroscience</i>	1999
UCLA Medical Scientist Training Program (MSTP) <i>Ethics seminar coordinator</i>	2000
UCLA School of Medicine <i>Teaching Assistant, Doctoring I</i>	2002
<i>Course Director - Intramural</i>	
Neuroscience 19 - Fiat Lux Neuroscience Seminar	2011-2020
Neuroscience 210A – Current Literature in Neuroscience	2012
<i>Course Faculty - Intramural</i>	
CTSI Neuroimaging Course	2011-2014
Medical Neurosciences 1 (DGSOM)	2012-2018
Neuroscience M203	2014-2015

Course Director - Extramural

UCLA Neural Interfaces for Therapeutic Interventions <i>Course Director</i> (annual CME event, 7 years)	2010-2016
Congress of Neurological Surgeons <i>MOC Review Course, Co-Chair</i> (4 years)	2013-2016
Congress of Neurological Surgeons <i>Practical Course Chair, Quality Improvement</i> (3 years)	2013-2015
Congress of Neurological Surgeons <i>International Symposium, Co-Chair</i>	2015-2017
UCLA Brain Tumor Center Annual Update <i>Course Co-Director</i> (Annual CME events, 2 years)	2015-2016
Congress of Neurological Surgeons <i>Written Boards High Yield Review Course</i>	2017-2018
UCLA Neurosurgery Update <i>Course Co-Director</i>	2018-2020

Graduate Students – Primary Mentor/Committee Chair

* indicates advanced to candidacy

Jessica Lu, MS (Bionengineering)	2012
Christos Tsiokos, PhD (Bioengineering)	2013
Aniket Desphande, MS (Bioengineering)	2014
William Speier (PhD, Bionengineering)	2014
Mahsa Malekmohammadi (PhD, Bioengineering)	2015
Andrew O’Keeffe (PhD, Neuroscience)	2021
Soroush Niketeghad (PhD, Bionengineering)	2021

Graduate Students – Dissertation Committee Member

John Colby, PhD (Neuroscience)	2012
Robert Hamilton, PhD (Bioengineering)	2014
Yan Jin, PhD (Bioengineering)	2014
Amit Mulgaonkar, PhD (Bioengineering)	2014
Kevin Leu, PhD (Bioengineering)	2017
Srinivas Chivukula, MD PhD (Biology, CalTech)	2022
Samantha Cohen (USC, Neuroscience)	2024

R25 Neurosurgery/Neurology Research Mentor

Won Kim, MD	2012
Nicholas Au Yong, MD PhD	2014
Srinivas Chivukula, MD	2017
Jasmine Thum, MD	2019
Katy Cross, MD PhD	2019-2020

Functional Neurosurgery Fellow Mentoring

Ausaf Bari, MD PhD	2012
Angela Downes, MD	2013
Patrick Pezeshkian, MD PhD	2014
Won Kim, MD	2016
Nicholas Au Yong, MD PhD	2017

Abigail Rao, MD	2017
Pratik Rohatgi, MD	2018
Yas Nagahama, MD	2019
Tony R Wang, MD	2020
Jason Hsieh, MD	2024

HONORS AND SPECIAL AWARDS:

Intramural

UCLA Dean's Honor List	1993
UCLA Alumni Scholar	1994
UCLA Department of Chemistry Stone Prize	1994
Summa Cum Laude	1996
College Honors	1996
Phi Beta Kappa	1996
UCLA Dissertation Year Fellowship	2000
UCLA School of Medicine Emil Bogen Research Prize	2003
UCLA Scholars in Translational Medicine Program	2010
UCLA Neurosurgery Faculty Quality Award	2011
UCLA Vasa Cube Award	2016
UCLA Neurosurgery Batzdorf Bronze Teaching Award	2016
UCLA Neurosurgery Faculty Quality Award	2016

Extramural

The Jerusalem Fellowship	1995
Golden Key National Honor Society	1995
Organization for Human Brain Mapping Travel Award	2000
Predocctoral National Research Service Award (NRSA)	2000
Avicenna Award of Excellence in Medical Education (Iranian Medical Association)	2003
Crutchfield, Gage, and Thomson Award (Neurosurgical Society of the Virginias Best Scientific Presentation)	2005
IEEE Brain Conference Young Investigator Award	2014
World Society of Stereotactic and Functional Neurosurgery Best Basic Science Presentation	2015

RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:

Current

"The Pathophysiology of Network Synchrony in Parkinson's Disease"	2016-2029
Principal Investigator R01NS097782 National Institute of Neurological Disorders and Stroke	
"Data Archive for the BRAIN Initiative"	2019-2025
Co-Principal Investigator R24MH114796	

National Institute of Mental Health

“Early Feasibility Study of the Orion Visual Cortical Prostheses” 2018-2025
 Co-Principal Investigator
 UH3 NS1034442
 National Institute of Neurologic Disease and Stroke

“Deep brain stimulation for depression using directional current steering and individualized network targeting” 2018-2025
Co-Principal Investigator
 UH3NS103549
 National Institute of Neurological Disorders and Stroke

“Deep Brain Stimulation of the Subgenual Cingulate Cortex for the Treatment of Medically Refractory Chronic Low Back Pain” 2019-2027
 Co-Principal Investigator
 UH3 NS113661
 National Institute of Neurological Disorders and Stroke

“Cortical-Subcortical Networks Dynamics of Anesthesia and Consciousness” 2020-2024
 Principal Investigator
 R01 GM135420
 National Institute of General Medical Sciences

“Neuroethics of Non-Therapeutic Invasive Human Neurophysiologic Research” 2020-2025
 Principal Investigator
 RF1 MH121373
 National Institute of Mental Health

“BRAIN Integrated Resource for Human Anatomy and Intracranial Neurophysiology” 2022-2025
 Principal Investigator
 RF1 MH121373
 National Institute of Mental Health

Prior Funding - NIH

“Invasive Approach to Model Human Cortex-Basal Ganglia Action-Regulating Networks” 2016-2020
 Principal Investigator
 U01NS098961
 National Institute of Neurological Disorders and Stroke

“Training in Neurotechnology Translation” 2019-2020
 Principal Investigator

T32 NS115753 National Institute of Neurological Disorders and Stroke	
“Cognitive Neural Prosthesis” Sub-contract, Co-Investigator R01EY015545B National Eye Institute	2014-2021
“Cardiac neuromodulation in humans: Mechanisms and Therapies” Co-Investigator OT2OD028201 Office of the Director, NIH	2019-2021
“Electrophysiologic and Anatomic Basis of BOLD fMRI” Principal Investigator K23EB014326 National Institute of Biomedical Imaging and Bioengineering	2012
“Non-contrast 4-D Dynamic MRA in Arteriovenous Malformations” Co-Investigator National Institute of Biomedical Imaging and Bioengineering R01EB014922 Co-Investigator	2013
“Characteristics of perfusion related cortical signals” Co-investigator R01NS52083 National Institute of Mental Health/NINDS	1996-2001
“Experiential modulation of neurovascular coupling” Principal Investigator F31MH12796 National Institute of Mental Health	1998
“Characteristics of perfusion related cortical signals” Co-investigator R01NS52083 National Institute of Mental Health/NINDS	1996

Prior Funding – Other

“Neoadjuvant radiation for brain metastases” Principal Investigator BrainLab, Inc	2017-2021
“Tractography guided stereotactic radiosurgery” Principal Investigator BrainLab, Inc	2017-2021

<p>“Evaluation of the Feasibility of Stimulating Visual Cortex to Restore Vision” Principal Investigator Second Sight Medical Products, Inc</p>	2016
<p>“The Kinematic and Physiology of Freezing of Gait in Parkinson’s Disease” Principal Investigator UCLA Neuromodulation Division</p>	2016
<p>“A Placebo-Controlled, Single-Blind Study Evaluating the Safety and Efficacy of Nasal Carbon Dioxide for the Symptomatic Treatment of Classical Trigeminal Neuralgia” Capnia, Inc.</p>	2016
<p>Casa Colina Fellow in Neurorestoration</p>	2013
<p>“Invasive pallidal biosignals for closed-loop DBS” Parkinson’s Alliance</p>	2013
<p>UCLA Scholars in Translational Medicine Program Principal Investigator \$50,000 per year x 3 years</p>	2010
<p>“Using optical spectroscopy to develop an in vivo, online optical biopsy system” University of Virginia, Fund for Excellence in Science and Technology Co-investigator</p>	2004

COMMUNITY SERVICE

Sinai Temple Volunteer	2012-present
American Parkinson Disease Association Walk Volunteer	2012-2015
Parkinson Disease Foundation Moving Day Volunteer	2016-2017
How to Shake the Shakes Seminar	2013-2020
Medical Advisory Board, Dallas Area Parkinson Society	2023-present
Parkinson’s Total Care Program	2024

VISITING PROFESSORSHIPS (INVITED LECTURES)

China Pain Forum (Beijing, China)	2012
Case Western Department of Bioengineering	2015
Thomas Jefferson University Department of Neurosurgery	2015

Swedish Neuroscience Institute	2016
Korean Neurosurgical Society	2017
Australasian Stereotactic and Functional Neurosurgical Society	2018
UC San Diego Neurosciences	2018
Northwestern University	2019
UT Austin Neurosurgery	2020
University of Virginia – Kichin Lectureship	2020
Baylor College of Medicine – Gildenberg Lectureship	2020
UTMB Neurosurgery, Galveston	2022
Washington University Neurosurgery – Coxe Lectureship	2023

LECTURES AND PRESENTATIONS:

Intramural

UCLA Neuroscience Program <i>Lake Arrowhead, California</i>	1999
"Plasticity Related Changes in Functional Cerebral Perfusion."	
UCLA Crump Institute for Biological Imaging <i>Los Angeles, California</i>	2000
"Methods and applications of optical imaging of intrinsic signals"	
UCLA Medical Scientist Training Program <i>Oxnard, California</i>	2000
"Methods and applications of optical imaging of intrinsic signals"	
UCLA Functional Brain Mapping Course , Division of Neurosurgery <i>Los Angeles, CA</i>	2002
"Intraoperative optical imaging of the brain"	
UCLA Division of Neurosurgery Grand Rounds , <i>Los Angeles, CA</i>	2002
"Sensitivity, specificity, and variability of functional MRI and cortical stimulation mapping"	
UCLA Department of Neurosurgery Grand Rounds <i>Los Angeles, CA</i>	2009
"Mapping the past, present, and future of restorative neurosurgery"	
UCLA Biomedical Engineering Program <i>Los Angeles, CA</i>	2009
"Advancing restorative neurosurgery with innovative image and signal analysis algorithms"	
UCLA Neurosurgical Resident Training Program <i>Los Angeles, CA</i>	2010
"Advancing restorative neurosurgery with innovative image and signal analysis algorithms"	
UCLA Neurosurgical Resident Training Program <i>Los Angeles, CA</i>	2010
"Basal ganglia and thalamus: Anatomy and Circuitry"	
UCLA Neurosurgical Resident Training Program <i>Los Angeles, CA</i>	2010
"General principles in the Diagnosis and Management of peripheral nerve injuries"	

Neural Interfaces for Therapeutic Interventions <i>Los Angeles, CA</i>	2010
"Brain Computer Interface: Current State of the Art"	
Harbor-UCLA Neurology Grand Rounds <i>Los Angeles, CA</i>	2010
"Neuromodulation: Treatment of movement disorders and beyond"	
UCLA Pituitary and Neuroendocrine Conference <i>Beverly Hills, CA</i>	2012
"Pituitary tumors: Who to consider for radiosurgery"	
Harbor-UCLA Neurology Grand Rounds <i>Los Angeles, CA</i>	2012
"Evolving Surgical Treatment Strategies for Movement disorders"	
UCLA Neurosurgical Resident Training Program <i>Los Angeles, CA</i>	2012
"Neuroanatomy and Neurophysiology of Pain"	
UCLA Neurosurgical Resident Training Program <i>Los Angeles, CA</i>	2012
"Practical Approach to Peripheral Nerve Syndromes"	
UCLA Neurosurgical Resident Training Program <i>Los Angeles, CA</i>	2012
"Peripheral Nerve Stimulation"	
Neural Interfaces for Therapeutic Interventions <i>Los Angeles, CA</i>	2012
"Deep Brain Stimulation: Improving Outcomes with Advanced Brain Mapping"	
Neural Interfaces for Therapeutic Interventions <i>Los Angeles, CA</i>	2012
"Chronic pain: Is it all in the head? Insights from Imaging"	
UCLA Neurophysiology Grand Rounds <i>Los Angeles, CA</i>	2012
"Extracting Control Signals during Invasive Neurosurgical Procedures"	
UCLA Neural Plasticity and Repair Seminar <i>Los Angeles, CA</i>	2013
"DBS in patients: Current practice and future innovation"	
West LA VA Neurology Grand Rounds <i>Los Angeles, CA</i>	2013
"DBS for Movement Disorders: Indications and Outcomes"	
UCLA Primary Care Update (CME) <i>Las Vegas, NV</i>	2013
"Medical and Surgical Management of Tremor"	
UCLA Facial Pain Symposium <i>Los Angeles, CA</i>	2014
"Percutaneous Management of Facial Pain"	
West LA VA Neurology Grand Rounds <i>Los Angeles, CA</i>	2014
"Practical approach to the patient with a peripheral nerve injury"	
Neural Interfaces for Therapeutic Interventions <i>Los Angeles, CA</i>	2014
"Non-invasive alternatives to deep brain stimulation for movement disorders"	

- UCLA CTSI Brain Mapping Workshop** *Los Angeles, CA* 2015
 “Neuroimaging Techniques in Parkinson’s Disease and Movement Disorders: DTI, Electrocorcography, and Local Field Potentials”
- Neural Interfaces for Therapeutic Interventions** *Los Angeles, CA* 2015
 “Surgical neuromodulation for movement disorders”
- UCLA Primary Care Update (CME)** *Las Vegas, NV* 2016
 “Brain Tumor Update”
- Neural Interfaces for Therapeutic Interventions** *Los Angeles, CA* 2016
 “Asleep vs Awake Deep Brain Stimulation Implantation”
- Neural Interfaces for Therapeutic Interventions** *Los Angeles, CA* 2016
 “Management of Occipital Neuralgia”
- Neural Interfaces for Therapeutic Interventions** *Los Angeles, CA* 2016
 “Focused Ultrasound vs Radiosurgery for Non-invasive Management of Movement Disorders”
- UCLA Radiation Oncology Teaching Lecture** *Los Angeles, CA* 2016
 “Sellar radiosurgery”
- UCLA Pain Grand Rounds** *Los Angeles, CA* 2016
 “Neurosurgical ablative procedures for pain”
- UCLA Neurophysiology Grand Rounds** *Los Angeles, CA* 2017
 “Asleep spinal cord stimulation”
- Harbor-UCLA Neurology Grand Round** *Los Angeles, CA* 2017
 “Surgical Management of Movement Disorders: DBS, Focused Ultrasound and Radiosurgery”
- UCLA Neurophysiology Grand Rounds** *Los Angeles, CA* 2017
 “The Role of Neural Oscillation in the Physiology and Pathophysiology of Motor Control”
- UCLA Neurology Grand Rounds** *Los Angeles, CA* 2018
 “New directions in Brain Stimulation: Vision restoration and Network-Based Neuromodulation”
- UCLA Spinal Cord Injury Symposium** *Santa Monica, CA* 2018
 “Brain Computer Interfaces: Early experiences in spinal cord injury”
- UCLA Psychiatry Neuromodulation Division** *Los Angeles, CA* 2018
 “Insights into Neuromodulation from invasive human recordings”

- UCLA Neurosurgery Update** *Santa Monica, CA* 2018
 "Surgical management of facial pain and headache"
- UCLA Center for Neurotechnology Symposium** *Los Angeles, CA* 2018
 "Phosphene thresholds in the blind inherit the strength-duration curve of neuronal excitability"
- UCLA Brain Mapping Seminar** *Los Angeles, CA* 2018
 "The pathology of synchrony in Parkinson disease: Insights from invasive human neurophysiology"
- UCLA Neurosurgery Update** *Santa Monica, CA* 2019
 "Laser ablation of brain tumors"
- UCLA Spinal Cord Injury Symposium** *Santa Monica, CA* 2019
 "Brain Computer Interfaces: Experiences in spinal cord injury"
- UCLA Neurosurgery** *Los Angeles, CA* 2019
 "Peripheral Nerve Anatomy"
- UCLA Radiation Oncology** *Los Angeles, CA* 2019
 "Sellar Radiosurgery"
- UCLA Psychiatry Neuromodulation Division** *Los Angeles, CA* 2019
 "Biomarkers to target and predict responses to neuromodulation for treatment-resistant depression and obsessive compulsive disorder"
- UCLA Radiation Oncology** *Los Angeles, CA* 2020
 "Radiation for Pituitary Tumors"
- UCLA Joint Seminars in Neuroscience** *Los Angeles, CA* 2020
 "UCLA Center for Neurotechnology"
- UTSW Neurology Grand Rounds** *Dallas, TX* 2021
 "The Role of motor network synchrony in the pathophysiology of Parkin Disease: Lessons from Human Intracranial Investigations"
- Texas Health Dallas Presbyterian** *Dallas, TX* 2022
 "Neurosurgical Management of Trigeminal Neuralgia and Facial Pain"
- UTSW Psychiatry Grand Rounds** *Dallas, TX* 2023
 "The role of imaging and physiological biomarkers in the surgical management of depression"

Extramural

- Western Student Medical Research Forum** *Carmel, California* 1998

"The Effect of Recent Activity on Neurovascular Responses as Measured by Optical Intrinsic Signals"

Western Student Medical Research Forum *Carmel, California* 1999

"Developmental Changes in Functional Cerebral Perfusion of Rodent Somatosensory Cortex"

Human Brain Mapping International Conference *San Antonio, Texas* 2000

"Optical Imaging of Bilingual Cortical Representations: A Case Report"

Experimental Biology *San Diego, California* 2000

"Experiential modulation of optical intrinsic signals"

American Association of Neurological Surgeons 2000

San Francisco, California

"Intraoperative sensorimotor and language mapping using optical intrinsic signal imaging: comparison with electrophysiologic techniques and fMRI in 40 patients"

Western Student Medical Research Forum *Carmel, California* 2000

"Intraoperative optical imaging of cortex subserving first and second languages"

American Association of Neurological Surgeons *Toronto, Canada* 2000

"Correlation of fMRI and electrocortical stimulation mapping in AVM patients."

University of Virginia, Department of Neurosurgery Grand Rounds 2002

Charlottesville, VA

"Recent advances in functional brain mapping for neurosurgical guidance"

Western Student Medical Research Forum *Carmel, California* 2002

"Intraoperative optical imaging of cortex subserving first and second languages"

Congress of Neurological Surgeons *San Francisco, CA* 2004

"Electrophysiologically-guided tethered cord surgery: The University of Virginia Experience"

AANS/CNS Joint Pediatric Section Meeting *Orlando, FL* 2005

"Electrophysiologically-guided untethering of secondary tethered cord after myelomeningocele repair"

Congress of Neurological Surgeons *Boston, MA* 2005

"Uncorrected nonsyndromal sagittal synostosis resulting in Chiari malformation"

Neurosurgical Society of the Virginias *White Sulfur Springs, WV* 2005

"Electrophysiologically-guided tethered cord surgery: The University of Virginia Experience"

American College of Surgeons *Chicago, IL* 2006

"Low grade gliomas of the elderly: Characterizing a rare entity"

- American Association of Neurological Surgeons** *San Francisco, CA* 2006
 "Management and Outcomes of Patients with Cushing's Disease without Pathological Confirmation of Tumor Resection after Transsphenoidal Surgery"
- Neurosurgical Society of the Virginia** *White Sulfur Spring, WV* 2006
 "The significance of lack of histological confirmation of tumor resection after transsphenoidal surgery for Cushing's Disease"
- Cedars-Sinai Department of Neurosurgery** *Los Angeles, CA* 2008
 "Imaging brain tumors to maximize extirpation, preservation, and restoration"
- UC Irvine Department of Neurosurgery Grand Rounds** *Irvine, CA* 2009
 "Mapping the past, present, and future of restorative neurosurgery"
- American Association of Neurological Surgeon** *San Diego, CA* 2009
 "Impact of ACGME work hour regulations on neurosurgical resident education and productivity"
- California Institute of Technology** *Pasadena, CA* 2009
 "Neurosurgical opportunities to advance BCI technology"
- Tarzana Providence Hospital** *Tarzana, CA* 2009
 "Mapping the past, present, and future of restorative neurosurgery"
- Cedars-Sinai Neurology Grand Rounds** *Los Angeles, CA* 2010
 "Neuromodulation: Treatment of movement disorders and beyond"
- American Society of Stereotactic and Functional Neurosurgery** 2010
Annual Meeting *New York, NY*
 "Comprehensive analysis of seizure risk after deep brain stimulation: Proposed indications for prophylaxis"
- American Society of Stereotactic and Functional Neurosurgery** 2010
Annual Meeting *New York, NY*
 "Transventricular electrode trajectories are associated with increased length of stay"
- Congress of Neurological Surgeons** *Washington, DC* 2011
 "Restorative Neurosurgery: Key Points for Allied Health Professionals"
- Congress of Neurological Surgeons** *Washington, DC* 2011
 "Preoperative mapping of patients with tumors in eloquence cortex"
- American Association of Neurological Surgeons** *Miami, FL* 2012
 "Imaging correlates of non-motor symptoms of Parkinson's disease"
- American Association of Neurological Surgeons** *Miami, FL* 2012
 "Automated and reliable tractography-based thalamic segmentation for DBS surgery"

Joint Section in Spine and Peripheral Nerve Surgery <i>Phoenix, AZ</i>	2012
"Lower extremity nerve exposures"	
American Society of Stereotactic and Functional Neurosurgery	2012
<i>San Francisco, CA</i>	
"Insights into cortical-subcortical connectivity with combined DBS-ECog recordings"	
First China Forum of Pain Medicine <i>Beijing, China</i>	2012
"DBS for Chronic Pain"	
First China Forum of Pain Medicine <i>Beijing, China</i>	2012
"Using Advanced Brain Mapping Techniques to Identify Patient-Specific Targets for Neuromodulation"	
Congress of Neurological Surgeons <i>Chicago, IL</i>	2012
"Pitfalls in Contemporary Mapping of Eloquent Cortices in Neurosurgery"	
CNS MOC Board Review Course <i>Phoenix, AZ</i>	2013
"Surgery for Peripheral Nerve Entrapments"	
CNS MOC Board Review Course <i>Phoenix, AZ</i>	2013
"Movement Disorders Surgery"	
American Association of Neurological Surgeons <i>New Orleans, LA</i>	2013
"Lower extremity entrapment syndromes"	
ASAP Chiari and Syringomyelia Conference <i>Universal City, CA</i>	2013
"Occipital nerve stimulation for pain after Chiari decompression"	
UC Neurotrauma Symposium <i>Santa Barbara, CA</i>	2013
"Neuromodulation for Minimally Conscious State"	
Southern California Biotech Investor Conference	2013
"Current Practices and Future Challenges in Invasive Neuromodulation"	
American Society of Stereotactic and Functional Neurosurgery	2014
Annual Meeting <i>New York, NY</i>	
"Image-guided applications in Neurosurgery: Incorporating Functional Neuroimaging"	
Alfred Mann Foundation <i>Valencia, CA</i>	2014
"The Future of Neuromodulation: Opportunities and Challenges"	
Deep Brain Stimulation Think Tank <i>Gainesville, FL</i>	2014
"Connectivity Guided Deep Brain Stimulation"	

Joint Section on Disorders of the Spine and Peripheral Nerve <i>Orlando, FL</i>	2014
"Upper extremity entrapment syndromes"	
Cal State University Channel Islands <i>Camarillo, CA</i>	2014
"Future of Neuromodulation: Opportunities and Challenges"	
Deep Brain Stimulation Think Tank <i>Orlando, FL</i>	2015
"Connectivity Guided Deep Brain Stimulation Targeting"	
Congress of Neurological Surgeons Neuromodulation Workshop <i>Chicago, Illinois</i>	2015
"Imaging for DBS: Current State of the Art and Future Directions"	
World Society of Stereotactic and Functional Neurosurgery <i>Mumbai, India</i>	2015
"Network level phase-amplitude coupling in Parkinson's disease"	
World Society of Stereotactic and Functional Neurosurgery <i>Mumbai, India</i>	2015
"Anesthesia induced changes in motor network sin Parkinson's disease"	
American Association of Neurological Surgeons <i>Chicago, Illinois</i>	2016
"Advanced Imaging in Deep Brain Stimulation Surgery"	
Congress of Neurological Surgeons <i>San Diego, CA</i>	2016
"Brain Mapping and Connectivity in Deep Brain Stimulation Surgery"	
Human Brain Mapping Annual Conference <i>Geneva, Switzerland</i>	2016
"Brain Connectivity in the Operating Room"	
Congress of Neurological Surgeons <i>San Diego, California</i>	2016
"Brain Mapping and Connectivity in Functional Neurosurgery"	
Stereotactic and Functional Neurosurgery Fellows Course <i>Denver, Colorado</i>	2016
"Surgery for Psychiatric Disorders"	
American Association of Neurological Surgeons <i>San Diego, CA</i>	2017
"Imaging for DBS: Current State of the Art and New Directions"	
Novalis Circle (CME) <i>Chicago, IL</i>	2017

- “The Increasing Role of Fiber Tracking in Radiosurgery Planning”
- World Society of Stereotactic and Functional Neurosurgery** 2017
Berlin, Germany
 “Advances in DTI-based Targeting for Movement Disorders”
- World Society of Stereotactic and Functional Neurosurgery** 2017
Berlin, Germany
 “Feasibility and Consistency of Chronic Visual Cortex Stimulation for Vision Restoration Using an Implanted Neurostimulator”
- American Society of Therapeutic Radiation Oncology** 2017
San Diego, CA
 “Neoadjuvant Stereotactic Radiosurgery for Brain Metastases”
- American Academy of Neurological Surgery** 2017
Santa Barbara, CA
 “Therapeutic Mechanisms of Pallidal Deep Brain Stimulation in Parkinson Disease”
- Congress of Neurological Surgeons** 2017
Boston, Massachusetts
 “Movement Disorders”
- Congress of Neurological Surgeons** 2017
Boston, Massachusetts
 “Building a Functional Neurosurgery Practice: Basic Science and Extramural Funding”
- Congress of Neurological Surgeons** 2017
Boston, Massachusetts
 “Advanced Imaging for Movement disorders”
- Congress of Neurological Surgeons** 2017
Boston, Massachusetts
 “Effect of Stimulation Parameters on Visual Percepts Elicited by Stimulation of a Visual Cortical Prosthesis for the Blind”
- Korean Neurosurgical Society** 2017
Seoul, Korea
 “New Directions in Brain Stimulation: Vision Restoration and Network-Based Neuromodulation
- UC San Diego Neuroscience Grand Rounds** 2018
San Diego, California
 “Network Basis for Neuromodulation for Neuropsychiatric Disorders”
- Seattle Neuroscience Foundation** 2018
Seattle, Washington

- “Stereotactic Laser Ablation: Principles and Applications”
- UC San Diego Neurosciences Grand Rounds** 2018
San Diego, California
 “The Network Basis of Neuromodulation for Neuropsychiatric Disease”
- BRAIN Investigator Meeting Invited Speaker** 2018
Bethesda, Maryland
 “Lessons from Early First-in-Human Device Trials”
- Australasian Society of Stereotactic and Functional Neurosurgery** 2018
Moon Lake, Taiwan
 “Network Based Neuromodulation”
- Taipei Medical University** 2018
Taipei, Taiwan
 “Building a Stereotactic and Functional Neurosurgery Program”
- Taipei Medical University** 2018
Taipei, Taiwan
 “Elements of a Functional Neurosurgery Research Program”
- Massachusetts General Hospital** 2018
Boston, Massachusetts
 “A vision of functional neurosurgery”
- DBS Think Tank** 2018
Atlanta, Georgia
 “Connectivity in Deep Brain Stimulation”
- American Society of Stereotactic and Functional Neurosurgery** 2018
Denver, Colorado
 “Primer on detecting and quantifying brain networks”
- BRAIN Neuroethics Working Group** 2018
Bethesda, Maryland
 “Invasive Human Neurophysiological Recordings for Basic Science: Is Altruism Enough?”
- Western Neurosurgical Society** 2018
Kona, Hawaii
 “Phosphene thresholds in the blind inherit the strength-duration curve of neuronal excitation”
- Congress of Neurological Surgeons** 2018
Houston, TX
 “Deep brain stimulation for essential tremor”

- National Academies of Sciences** 2018
Avoiding S&T Strategic Surprise Workshop
Washington, DC
 “Invasive neuromodulation devices and technologies”
- North American Neuromodulation Society** 2019
Las Vegas, Nevada
 “Comparing current steering technologies for directional deep brain stimulation”
- North American Neuromodulation Society** 2019
Las Vegas, Nevada
 “Network basis of neuromodulation for neuropsychiatric disease”
- Casa Colina Centers for Rehabilitation** 2019
Pomona, California
 “How to ask a research question”
- LabRoots Virtual Conference** 2019
 “Ethics and Altruism”
- NINDS Neurology/Neurosurgery R25 Workshop** 2019
Los Angeles, California
 “Fostering Physician-Neuroscientists: A Personal Journey and the CNS Commitment”
- World Society of Stereotactic and Functional Neurosurgery** 2019
New York, New York
 “Neurosurgery-Neuroscience-Engineering Collaboration at UCLA”
- Northwestern Neurosurgery Grand Rounds** 2019
Chicago, Illinois
 “Innovation through Reverse Engineering: Brain Stimulation for Parkinson Disease, Depression, and Artificial Vision”
- American Academy of Ophthalmology** 2019
San Francisco, California
 “Orion Visual Cortical Prosthesis Early Feasibility Study: Interim Results”
- Congress of Neurological Surgeons** 2019
San Francisco, California
 “Orion Visual Cortical Prosthesis Early Feasibility Study: Interim Results”
- Weizmann Institute** 2020
Rehovot, Israel
 “Diseased Brain Networks: Insights from Imaging and Intracranial Recordings in Humans”
- North American Neuromodulation Society** 2020

Las Vegas, Nevada

“DTI: Basic and Applications in Neuromodulation”

Labroots Virtual Conference 2020

“Deep brain stimulation for depression: Network targeting and engagement”

NIMH Translational Sciences Division 2020

Virtual Bethesda, Maryland

“Deep brain stimulation for depression: Network targeting and engagement”

UT Austin Neurosurgery Virtual Grand Rounds 2020

Virtual Bethesda, Maryland

“Innovation through Reverse Engineering: Brain Stimulation for Parkinson Disease, Depression, and Artificial Vision”

University of Virginia Kitchin Lectureship 2020

Virtual Charlottesville, Virginia

“Innovation through Reverse Engineering: Brain Stimulation for Parkinson Disease, Depression, and Artificial Vision”

World Society of Stereotactic and Functional Neurosurgery 2021

Virtual Symposium

“Feasibility and Functional Outcomes of Human Visual Cortical Prostheses”

American Society of Neurophysiological Monitoring 2021

Virtual Annual Meeting

“Deep Brain Stimulation: Neurosurgery for Neurophysiologists”

Congress of Neurological Surgeons Annual Meeting 2021

Austin, Texas

“Supra and Infraorbital Nerve Stimulation for Facial Pain”

Congress of Neurological Surgeons Annual Meeting 2021

Austin, Texas

“Feasibility and Functional Outcomes of Human Visual Cortical Prostheses”

Cedars-Sinai Medical Center Neurology Grand Rounds 2021

Virtual Los Angeles, California

“Development neuromodulation strategies: From depression to blindness”

Texas Association of Neurological Surgeons 2022

Houston, Texas

“Integrating neuromodulation into the management of facial pain”

Congress of Brazilian Neurosurgeons 2022

Jao Pesao, Brazil

“State of the Art in Functional Neurosurgery”

Congress of Brazilian Neurosurgeons	2022
<i>Jaó Pesao, Brazil</i>	
"Early experience with the First-in-Human Visual Cortical Prosthesis "	
NIH Neurosurgery Program	2022
<i>Virtual Bethesda, Maryland</i>	
"Development neuromodulation strategies: From depression to blindness"	
FDA Vision Restoration Virtual Workshop	2022
<i>Virtual Bethesda, Maryland</i>	
"Technology and Regulation: Cortical Implants"	
California Neurological Society	2022
<i>Virtual San Diego, California</i>	
"Deep Brain Stimulation Outcomes"	
UTMB Neurosurgery Grand Rounds	2022
<i>Galveston, TX</i>	
"Developing Neuromodulation Strategies: From Parkinson Disease to Depression to Blindness"	
World Society of Stereotactic and Functional Neurosurgery Annual Meeting	2022
<i>Seoul, South Korea</i>	
"Advanced Neurotechnologies to Improve Brain and Spine Function for Neurological and Psychiatric Disease"	
Brazilian Congress of Radiology	2022
<i>Virtual Sao Paolo, Brazil</i>	
"Safe Neurablation Via Advanced Image Processing Tools"	
North American Neuromodulation Society	2023
<i>Las Vegas, NV</i>	
"Psychiatric Deep Brain Stimulation is NOT Ready for Closed Loop Therapy"	
US Congressional Seminar	2023
<i>Washington DC</i>	
"Novel Devices to Address Untreated Pain: A Brain Pacemaker for Chronic Low Back Pain"	
CNS Essential Course	2023
<i>Dallas, TX</i>	
"Working with Your Senior Partner, Chairman, and Hospital Administration"	
CNS Essential Course	2023
<i>Dallas, TX</i>	
"Social Media, Marketing, and Your Practice"	

- American Association of Neurological Surgeons Annual Meeting** 2023
Los Angeles, CA
 "Migraine Surgery: Techniques and Outcomes"
- Washington University Neurosurgery Coxe Lectureship** 2023
St Louis, MO
 "Neurosurgical Innovative through Neurotechnology"
- Congress of Neurological Surgeons Annual Meeting** 2023
Washington DC
 "Connectomic Deep Brain Stimulation: Tremor and Depression"
- Society of Neurological Surgeons Annual Meeting** 2023
Dallas, TX
 "Engineering the Future of Neurosurgery: Novel Therapies and Novel Systems of Care"
- Society of Neurological Surgeons Annual Meeting** 2023
Dallas, TX
 "Neurosurgery Scholarship and Implications for Resident Selection"
- DBS Think Tank** 2023
Gainesville, FL
 "The most important feature to put into neurostimulators of the future: Brain Sensing"
- Texas Association of Neurological Surgeons Annual Meeting** 2024
Corpus Christ, TX
 "CNS: What it Means for Texas Neurosurgeons"
- Texas Association of Neurological Surgeons Annual Meeting** 2024
Corpus Christ, TX
 "Innovation in Texas Neurosurgery: Cutting Edge Trials and Research"
- CNS Essential Course** 2024
Dallas, TX
 "Working with Your Senior Partner, Chairman, and Hospital Administration"
- CNS Essential Course** 2024
Dallas, TX
 "Social Media, Marketing, and Your Practice"
- World Society of Stereotactic and Functional Neurosurgery** 2024
Vancouver, Canada
 Plenary: "Insights into Neurological and Psychiatric Disease from Intracranial Neurophysiology in Humans"

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RESEARCH PAPERS (PEER-REVIEWED)

A Research Papers (published)

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B. Research Papers (in-press)

C. Research Papers (submitted)

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PAPERS IN PREPARATION (RESEARCH COMPLETED)

1. Au Yong, N., Malekmohammadi, M., Ricks-Oddie, J., **Pouratian, N.** "Contextual Movement-Modulation of α and β Oscillations in Parkinson disease"
2. Niketeghad S, Malekmohammadi M, Tsolaki E, Speier W, **Pouratian N.** "Thalamic regulation of cortical activity in the motor network" Neuroimage

BOOK CHAPTERS

A. Book Chapters (published)

1. **Pouratian, N.** and Toga, A.W. (2002) "Optical Imaging of Intrinsic Signals: The Methods" in *Brain Mapping: The Methods*, Toga AW, Mazziotta JC [eds], Elsevier Science, 97-140.
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B. Book Chapters (in-press)

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