

Maxwell Boakye, M.D., MPH, MBA, FAANS, FACS
220 Abraham Flexner Way, 15th Floor
Louisville, KY, 40207

Personal: Born, Accra, Ghana

Citizenship: USA

Education

9/1989	BA, Mathematics and Physics, Rutgers University, Highest Honors
5/1995	MD, Cornell University Medical College
7/1//1995-6/30/1996	Intern, SUNY Upstate, Syracuse, NY
7/1/1996-6/30/2002	Resident, Neurological Surgery, SUNY Upstate, Syracuse, NY
1/2001-4/2001	Pediatric Neurosurgery, Boston Children's Hospital, Harvard Medical, Boston, MA
10/2000-1/2001	Spine Surgery, Orthopedic Department, SUNY Upstate, Syracuse, NY
7/1/2002-6/30/2003	Fellow, Complex Spinal Disorders, Emory University, Atlanta, GA
7/1/2003-9/30/2003	Spine Oncology, Memorial Sloan Kettering Cancer Center, NY,NY
12/2011	MPH, Johns Hopkins Bloomberg School of Public health
12/2012	MBA, University of Tennessee Physicians Executive MBA Program

Research Training

6/1990-6/1991	Department of Physiology, Cornell University Medical College, 1990 Mathematical Modeling of Renal proximal tubule tight junctions Mentor, Alan Weinstein, M.D., Professor of Medicine, New York Hospital – Cornell Medical Center
8/1/1992-11/1/92	Howard Hughes – National Institutes of Health Research Scholar, Laboratory of Surgical Neurology, National Institutes of Health (NIH), P53 gene mutations in gliomas. Mentor, Edward Oldfield, M.D.
11/1/1992-6/30/1994	Howard Hughes – National Institutes of Health Research Scholar, Laboratory of Adaptive Systems, National Institutes of Health (NIH), Potassium channels in Alzheimer's disease. Mentor, Daniel L. Alkon, M.D.
7/1/1998-6/30/2000	Neurosurgery Labs, Upstate Medical University, Syracuse, New York Functional Magnetic Resonance Imaging studies of somatosensory system Plasticity of somatosensory cortical mappings using functional magnetic resonance imaging (fMRI) The role of Magnetic resonance spectroscopy in evaluation and treatment of neurosurgical patients

Presurgical mapping and intraoperative mapping using FMRI data,
Mentor, Charles J. Hodge, Jr, M.D.

Academic Appointments

7/2002-6/2003	Clinical Instructor in Neurological Surgery, Emory University
10/2003-12/2010	Assistant Professor of Neurological Surgery Stanford University Medical Center/Palo Alto VA health Care System Director, Neural Plasticity Lab, Stanford University/ Palo Alto VA Director, Outcomes Research lab, Stanford university/Palo Alto VA
1/2011- Present	Associate Professor of Neurological Surgery Ole A., Mabel Wise & Wilma Wise Nelson Endowed Research Chair
1/2011- Present	Chief, Spinal Neurosurgery, Department of Neurosurgery, University of Louisville Hospital, Department of Neurosurgery, University of Louisville
1/2011- Present	Director, Outcomes Research, Department of Neurosurgery, University of Louisville
7/2013- Present	Clinical Director, Kentucky Spinal Cord Injury Center
7/2017- Present	Director of Spine Fellowship, Department of Neurosurgery, University of Louisville
9/2017- Present	Director of Annual University of Louisville Spine Symposium

Certifications and Licensure

3/2/1999	New York State Medical License, Inactive
4/5/2002	Georgia medical license, Inactive
6/18/2003	California State medical license, Inactive
5/2006	American Board of Neurological Surgery Certification
7/9/2007	American College of Surgeons, Fellow Certification
12/16/2010	Kentucky License (Active)
2015	American Board of Independent Medical Examiners (Active)

Professional Memberships and Activities

10/1/1996-Present	Member, American Association of Neurological Surgeons
5/10/2004-Present	Member, North American Spine Society
8/13/2004-Present	Member, Congress of Neurological Surgeons
7/9/2007-Present	Fellow, American College of Surgeons
9/2/2011-Present	Member, American Society of Anesthesiologists
10/1/2013-Present	Member Society for Minimally Invasive Spine Surgery
10/3/2014-Present	Member, Academy Health
10/3/2014-Present	Member, AOSpine North America
1/1/2015-Present	Member, Lumbar Spine Research Society

1/1/2015-Present Member, Cervical Spine Research Society
1/1/2015-Present Candidate fellow, Scoliosis research society

Honors and Awards

5/1989 Phi Beta Kappa, 1989

5/1989 Betty Skuse Thompson Prize for Excellence in Physics, Rutgers University

7/1992-6/1994 Howard Hughes – National Institutes of Health Research Scholar
7/1994-6/1995 Howard Hughes Medical Institute Continued Fellowship Support Award

5/1995 Outstanding Research Prize, Cornell Medical College

2004 AANS/NREF Young Clinician Investigator Award

11/2005 Stanford Center of Excellence Faculty Fellowship Award

1/2007-12/2008 Stanford School of Medicine Faculty Fellow

2007 America's Top Surgeons, Consumers Research Council of America

Other Neurosurgery service

7/1/2012-Present Manager, Neurosurgery Journal club, UOL

1/1/2014-2017 Manager, Department of Neurosurgery Spine Case Conference

1/1/2014-2015 Manager, Spine Administrative Stakeholders Meeting, UofL

7/1/2014 Member, Dean Search Committee for Chair of Department of Neurosurgery, UofL

1/1/2016-Present Manager, Visiting Spine Surgeon program, UofL Department of Neurosurgery

2018 Member, Research Committee, UofL Department of Neurosurgery

National Society Committee Service

2009-2010 Member, American Association of Neurological Surgeons/Congress of Neurological Surgeons Spine Section Outcomes Committee

2014 Member, Academy Health Disparities Workgroup

2012 Member, North American Spine Society Joint task force committee

2011-2012 American Association of Neurological Surgeons Joint Guidelines Committee

10/1/2014 Faculty, AO spine

5/2015	Invited reviewer, NIH Health Services Organization and Delivery Study Section (HSOD)
10/29/2015	Co-chair, NIH CNNT study section meeting
2018	Scoliosis research society research committee, NASS registry and Outcomes committee

Grant Reviewer Study Section service

6/13/2012	Reviewer, NIH Clinical Neuroplasticity and Neurotransmitters study section
7/12/2012	NIH special review panel: Pragmatic Clinical Trials grant applications
1/2012	Grant Reviewer, Netherlands Organization for Health Research and Development.
8/2014	Reviewer, VA Spinal Cord Injury Merit review Study Section
7/25/2013-6/30/17	Permanent member, NIH Clinical Neuroplasticity and Neurotransmitters study section
10/2015	Reviewer, Patient Centered Outcomes Research Institute
2015	Selected as a Malcolm Baldrige National Healthcare Quality Award Examiner-declined

Editorial Service

2007	Ad Hoc Reviewer, Cerebral Cortex
2008	Advisory Member, Editorial Board, Spine Journal
2009-2010	Ad Hoc Reviewer, Journal of Neurophysiology
2011	Ad Hoc Reviewer, Neurosurgery Journal
10/2013	Editorial Board Member, JSM Neurosurgery & Spine
2015-2016	Ad Hoc reviewer, World Neurosurgery
2018	Editorial Board Member and Ad Hoc reviewer, World Neurosurgery

Invited faculty & lectureships

1. Modern Technologies and Future Trends in Lumbar Interbody Fusion. American Association of Neurological Surgeons Annual (AANS) Practical Clinic, AANS Annual Meeting, Orlando. Course Directors: Regis Haid and Gerald Rodts, 2004
2. Thoracic and Lumbar Stabilization and Fusion: Indications and Complications. American Association of Neurological Surgeons Annual (AANS) Practical Clinic, AANS Annual

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- Meeting, Orlando. Course Directors: Regis Haid and Gerald Rodts, 2004-2007
3. Cleveland Clinic Spine Review Course, 7/2004-7/2008
 4. Modern Technologies and Future Trends in Lumbar Interbody Fusion. AANS Practical Clinic, AANS Annual meeting, New Orleans. Course Director: Regis Haid, 2005
 5. National Medical Association, Annual meeting, Honolulu, Hawaii, 2007
 6. National Medical Association, Annual meeting, Atlanta, GA, 2008
 7. National Medical Association, Annual meeting, Las Vegas, NV, 2009
 8. Faculty, American Association of Neurological Surgeons Practice Oral Board Certification Exam, 2009
 9. Moderator, American Association of Neurological Surgeons/Congress of Neurological Surgeons Joint Section on Spinal Disorders Annual meeting, 2009
 10. Lecturer, James Graham Brown Cancer Center Symposium on Brain and Spinal Metastasis, Louisville, KY, July 2015
 11. Faculty, AO Spine North America Residents Course, Jan 2016
 12. Faculty, Clinical Events of CNS Trauma. NSCI 600 course, Interdisciplinary Program in Translational Neurosciences in the School of Interdisciplinary and Graduate Studies. Course Director: Dr. David Magnuson, Mar 2016
 13. Invited to present Grandrounds, Stanford University Department of Neurosurgery, Jan 2017
 14. Invited to present Grandrounds, Stanford University Department of Neurosurgery, Feb 2018

Educational Service

Teaching

High School Students

summer internship

- Jiahui Hu, DuPont Manual High School-completed a first authored paper, Journal neurotrauma

Undergraduate Students Mentorship

Role: Mentor in research-resulted in many publications for students

- Mahesh Chandrasekhar, Medical student, University of Louisville
- Robert Arrigo, MS 3, Stanford Med Scholars Program
- James Xie, Senior, Stanford University School of Medicine

Medical students mentorship

- Yi-ren Chen, MS 3, Stanford School of medicine
- Mentor, Stanford Immersion in Medicine Series-students shadowed me in clinic
- Christian Linares, University of Louisville, outcomes research projects
- Kristin Nosova, University of Louisville, Outcomes Research

Neurosurgery Residents career mentorship

Mentor, American Association of Neurological Surgeons Resident Mentoring Program Mentee:

- Alexander Drofa, MD, Resident, University of Manitoba Neurosurgery program
- Doniel Drazin, MD Neurosurgery Resident, Cedars-Sinai Hospital, Los Angeles, Ca- Previously was my lab manager.

Previous Postdoctoral and Graduate Students

- Jean Charles Lamy, PhD, former post doc, now On Assistant professor track, University of Paris

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- Amber Mink, MS, current Predoctoral candidate
- Kun Li, PhD, postdoc
- Xiaofei Yu, postdoc

Neurosurgery resident research mentorship

- Chirag Patil, MD, now Associate Professor of Neurosurgery, Cedars-Sinai, LA
- Nandan Lad, MD PhD,, now Assistant Professor of Neurosurgery, Duke University, NC
- Michael Kinsman, 3D printing guided titanium implant for cranioplasty, Accepted faculty position at the University of Kansas
- Ryan Nazar, outcomes after unilateral cervical facet treatment
- Michael Rhee, comparative effectiveness of aneurysm coiling vs. clipping
- Kevin Mansfield, outcomes after Combined spinal cord and traumatic brain injury

Clinical Research fellows

Chike Illorah, MD-accepted residency position in Neurology 2015

Neesha Settiple, MD-accepted residency position -2016

Career Development Mentorship

- Aaron Rising, Ph.D., Robley Rex, VA Medical Center and KSCIRC, University of Louisville, Louisville, Kentucky CDA1 submitted (June 2013) “Effects of training” - Howland Primary Mentor, Mentoring Team: Boakye, Betocci, Behrman
- Kyphoplasty course. March 2013, residents
- Cadaver dissection July 2013, (Pterional and orbitozygomatic approach),
- Susmita Datta, 2014
- Kavi Nair, (Shadowing) 2014

Dissertation Committee service

Younathan Abdia, Department of Biostatistics and Bioinformatics

Kris Gardner, Master’s thesis, completed 2014

Clinical & Research Activities

Research Lab Directorships

1. Spinal cord Injury and Brain Injury research lab

Role: Director

Ongoing Projects:

- Longitudinal study of traumatic brain injury outcomes
- Assessment of residual supraspinal pathways after spinal cord injury
- Multimodal study of plasticity spinal cord injury
- Assessment of the impact of age and genetic polymorphisms on recovery after spinal cord injury
- The role of spinal diffusion tensor and Phase contrast MRI imaging in the evaluation of spinal cord injury
- Evaluation of mechanisms and outcomes of modulation of spinal cord physiology and plasticity using spinal electrical or spinal magnetic stimulation.

2. Neurosurgical Outcomes Research and Translational research lab

Role: Director

Ongoing Projects

- Patient centered outcomes and comparative effectiveness research in neurologic and spinal disorders
- Departmental databases and Outcomes research

Grants and Contracts

Funded Research Grants

Current:

1. Improving Outcomes Using Myelotomy with Intramedullary Hemorrhagic Necrosis Removal in Porcine Model of Acute Thoracic Cord Injury
Department of Defense (DOD)/Spinal Cord Injury Research Program (SCIRP)
Duration: 09/01/2018 – 08/31/2020
Role: **Principle Investigator**
2. Myelotomy with Hemorrhagic Necrosis Removal in a Porcine SCI Model
Craig H. Neilsen Foundation
Duration: 07/31/2018 – 07/30/2021
Role: **Principle Investigator**
3. Helmsley Center for Restorative Medicine
Helmsley Charitable Trust
Duration: 12/15/2015 – 12/14/2019
Role: **Co-Investigator**
4. Biomarkers of Spontaneous Recovery from Traumatic Spinal Cord Injury
Department of Defense (DOD)/Spinal Cord Injury Research Program (SCIRP)
Duration: 10/01/2015 – 09/30/2019
Role: **Principle Investigator**

Current Multicenter studies and registries

1. North American Clinical Trial network (NACTN).
Role: **Principal Investigator**, University of Louisville site
2. Riluzole in Spinal Cord Injury Study (RISCIS).
Role: **Principal Investigator**, University of Louisville site
Role: **Principal Investigator**, University of Louisville site
3. Biomarkers of Spontaneous Recovery from Traumatic Spinal Cord Injury
Role: **Principle Investigator**, University of Louisville site
4. American Association of Neurological surgeons: N2QOD-Pilot study of National Neurosurgical clinical registry
Role: **Principal Investigator**, University of Louisville site

Past Grant Funding:

1. American Association of Neurological Surgeons Young Clinician Investigator Grant-Declined
Role: **Principal Investigator**, 2004
2. Differential Plasticity of Sensory and Motor Cortical Systems in Patients with Spinal Cord Injury
American Heart Association (AHA) Beginning Grant-In-Aid Award
Role: **Principal investigator**.
3. Multimodal study of plasticity after spinal cord injury
VA Merit Review Grant
Role: **Principal investigator**
4. Polymorphism and TBS on Practice Dependent Plasticity in Lower Limb,
VA Merit Review Grant BDNF
Role: **Principal investigator**
5. Neurophysiological assessment of residual supraspinal input after human spinal cord injury
Kentucky Spinal Cord and Head Injury Research Trust
Role: **Co-Investigator**
6. Improving acute SCI assessment with Cine-MRI and epidural electrophysiology
Paralyzed Veterans of America (PVA)
Duration: 01/01/2015 - 12/31/2016
Role: **Principal investigator**
7. Helmsley Center for Restorative Medicine
Helmsley Charitable Trust
Duration: 12/15/2015 – 06/30/2018
Role: **Co-Investigator**
8. Recovery of Function, Health and Quality of Life for People with Paralysis
Helmsley Charitable Trust
Duration: 07/01/2015 – 09/30/2018
Role: **Co-Investigator**
9. Biomarkers of Spontaneous Recovery from Traumatic Spinal Cord Injury
Department of Defense (DOD)
Duration: 10/01/2015 – 09/30/2018
Role: **Co-Investigator**
10. North American Clinical Trials Network (NACTN)
Department of Defense (DOD)/Christopher & Dana Reeve Foundation
Duration: 03/01/2017 – 12/31/2018
Role: **Co-Investigator**

Completed Clinical trials

1. A Randomized, Double-Blind, Placebo-Controlled Phase 3 Study to Investigate the Efficacy and Safety of Progesterone in Patients with Severe Traumatic Brain Injury
Sponsor: BHR Pharma, LLC
Role: **Principal Investigator**, University of Louisville site
2. Use of Riluzole a sodium channel blocker in acute spinal cord injury, phase 1 trial completed 2011
Role: **Principal Investigator**, University of Louisville site

International Academic Activities

9/1/2008 - 7/30/2009 France-Stanford Center For Interdisciplinary Studies Grant. This collaborative project involved a two-phase exchange between Stanford Neural Plasticity laboratory (Stanford) and ER6 / UPMC Univ Paris 06 laboratory (Paris) headed by Véronique Marchand-Pauvert, PhD. These activities included the development of a collaborative research project, the organization of lectures, and the visit of several laboratories and clinical departments working directly in our field. Seven researchers or students were involved in this project: three French researchers were hosted at Stanford in January 2009 (one week) whereas four researchers from Stanford were hosted in Paris in April 2009 (one week).
Role: **Principal Investigator, Stanford lab host**

Abstracts and Presentations**Local Academic Presentations**

1. **Developmental Anatomy of the spine:** presented at the Department of neurosurgery: presented to neurosurgery residents and faculty, 2011
2. **Traumatic Injury of the Nervous System: Development of a clinical and translational research lab:** Presented at the University of Louisville department of bioengineering seminar series, Sept 2011
3. **University of Louisville-Modern treatment of spinal metastases:** presented to the hematology oncology seminar series- students, residents, fellows and faculty, Jan 2012
4. **Neurosurgical Aspects of back pain treatment: Decision making, trends and outcomes?** Family Medicine grand rounds, May 2012
5. **Modern treatment of spinal metastases:** presented to neurosurgery Lunch&Learn series
6. **Spinal cord injury, what can we learn from outcomes research,** Neurosurgery Grand Rounds, Sept 2012
7. **Spinal Cord and Brain Injury lab-Update on ongoing research,** KSCIRC seminar presentation, November 2012
8. **The National Neurosurgery Outcomes Registry: N2QOD - Initial Results,** Neurosurgery Grand Rounds, May 2013
9. **Back Pain and Treatment presentation,** WHAS TV's Great Day Live, September 2013
10. **Neck and Back Pain: New treatment options may offer real relief,** University of Louisville Physicians and University Hospital Lunch&Learn, November 2013
11. **Developments in Spine Surgery,** University of Louisville Lunch and Learn, March 2014
12. **Treatment of Neck Pain: When is Fusion or Artificial Disk needed?,** University of Louisville Lunch and Learn, May 2014.

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13. **Does Adjuvant Radiosurgery for Intracranial Meningiomas Improve Survival in Older Patients? A SEER-Medicare Linked Analysis**, Research!Louisville in Louisville, KY in September 16-19, 2014
14. **Management of Metastatic Epidural Spinal Cord Compression**, University of Louisville Neurosurgery Didactics, Louisville KY, October 2, 2014.
15. **Update on the Spinal Cord and Brain Injury Lab**, University of Louisville Kentucky Spinal Cord Injury Center Lecture Series, Louisville, KY, October 3, 2014.
16. **Update on Clinical Trials in Spinal Cord Injury**, Neuroscience Grand Rounds, Louisville KY, October 9, 2014.
17. **Spinal Tumor-CNS (NS+Metastatic, Primary Bone)**, Neurosurgery Didactic Presentation, University of Louisville KY, January 8, 2015.
18. **Update on Clinical and Translational Research Program**, KSCIRC Lecture Series, Louisville KY, November 13, 2015.
19. **Spinal Tumors, CNS (NS/Metastatic/Primary Bone)**, Neurosurgery Didactic Presentation, University of Louisville KY, December 10, 2015.
20. **Spinal Tumor: CNS (NS/Metastatic, Primary Bone)**, Neurosurgery Didactic Presentation, University of Louisville KY, January 7, 2016.

Oral Presentations Abstracts -National meetings

1. **Boakye M**, Mummaneni PV, Haid RW, Rodts. Anterior cervical spine fusion using polyetheretherketone (PEEK) cage and bone morphogenetic protein, AANS/CNS Joint Section on spine and peripheral disorders annual meeting, San Diego, 2004
2. Mummaneni PV, **Boakye M**, Haid RW, Rodts GE, Fiore AJ, Sasso RC. Posterior Cervical Fixation Using C-1 Lateral Mass Screws in Cases Precluding the Use of Transarticular Screws. Oral Poster: Joint Section of Disorders of the Spine and Peripheral Nerves. Tampa, FL 2003 American Association of Neurological Surgeons (AANS) Annual Meeting. Chicago, IL-2008
3. John D. Lipani, **Maxwell Boakye**, Shivanand P. Lad, Gordon Li, Scott G. Soltys , Iris C. Gibbs, Laurie Tupper, John R. Adler. CyberKnife Radiosurgery for Facetogenic Back Pain: A Pilot Study. Cyberknife Users Meeting, San Diego, 2007
4. Patil C, Lad S, Santarelli J, **Boakye M**. National inpatient complications and outcomes after surgery for spinal metastasis from 1993-2002. Oral Presentation at the 2007 Annual Meeting of the CNS, San Diego, CA.
5. Gordon Li, **Maxwell Boakye**, Shivanand P. Lad, John D. Lipani , Scott G. Soltys , Iris C. Gibbs, John R. Adler CyberKnife Radiosurgery for Facetogenic Back Pain: A Pilot Study AANS Annual Meeting, Chicago, IL, 2008.
6. Kalanithi P, Chirag G. Patil, M.D., Shivanand P. Lad M.D., Ph.D., **Maxwell Boakye**, M.D. National Complications and Outcomes After Posterior Lumbar Fusion for Degenerative Spondylolisthesis. AANS plenary Presentation, AANS Annual Meeting, Chicago, IL, 2008.
7. Teja S. Patil, Shivanand P. Lad, Chirag G. Patil, **Maxwell Boakye** Complications and Outcomes after Spinal Cord Tumor Resection in the United States from 1993-2002 AANS Annual Meeting, Chicago, IL, 2008.

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8. Lad, SP, Patil CG, **Boakye, M** . Vision loss after Spine surgery: a national perspective. 2008 AANS presentation. Chicago, IL
9. Lad, SP; **Boakye, M**; Henderson, JM. Nationwide Inpatient Trends in Spinal Cord Stimulation (SCS) Surgery North American Neuromodulation Society (NANS)- Las Vegas, NV – Dec 2008.
10. Lad, SP; **Boakye, M**; Henderson, JM. Nationwide Inpatient Trends in Spinal Cord Stimulation (SCS) Surgery AANS- San Diego, CA- 2009
11. Patil CG, Lad, SP, **Boakye, M** Craniotomy For Resection Of Craniotomy for Resection of Meningioma in the Elderly: A Multicenter Prospective Analysis AANS Annual Meeting, Chicago, IL, 2008.
12. Lad, SP; **Boakye, M**; Henderson, JM. Nationwide Inpatient Trends in Deep Brain Stimulation (DBS) Surgery North American Neuromodulation Society (NANS)- Las Vegas, NV – Dec 2008
13. Shivanand Lad, Chirag Patil, **Maxwell Boakye** Multilevel Discectomy Versus Cervical Corpectomy: Comparison of Risk-Adjusted Complication Rates- AANS plenary presentation- San Diego, CA- 2009
14. Paul Kalanithi, Shivanand Lad, Chirag Patil, **Maxwell Boakye**, Epidural Hematoma: Trends in National Mortality, Cost, and Complications from 1993-2006 AANS presentation- San Diego, CA- 2009
15. Justin Santarelli, Nandan Lad, Chirag Patil, **Maxwell Boakye**, Spinal Arteriovenous Malformations-Review of National Trends, AANS presentation- San Diego, CA- 2009
16. Shivanand P. Lad, Paul Kalanithi, Chirag G. Patil, Jaimie M. Henderson, **Maxwell Boakye**, National Trends in Spinal Cord Stimulation (SCS) Surgery AANS presentation- San Diego, CA- 2009
17. Shivanand P. Lad, Robert T. Arrigo, Melanie G. Hayden, Paul S. Kalanithi, Chirag G. Patil, Jaimie M. Henderson, **Maxwell Boakye**. Intrathecal Therapies: Local and National Trends and Complications. NANS oral presentation- Las Vegas, NV- 2010.
18. Paul Kalanithi, Robert Arrigo, Nandan Lad, Melanie Hayden, **Maxwell Boakye**. Annual Trends in Vagal Nerve Stimulation for Epilepsy and Depression. NANS oral presentation- Las Vegas, NV- 2010.
19. **Boakye M**, Lamy JC, Arrigo R Modulation of spinal cord reflex circuitry by spinal DC Stimulation in Humans, AANS/CNS spine section, Orlando 2012
20. Beatrice Ugiliweneza, Chirag Patil, Shivanand Lad, **Maxwell Boakye** Racial disparities in complication rates and resource utilization after spinal surgery for lumbar stenosis, AANS/CNS spine section meeting, Orlando 2012
21. Arrigo R, Hayden M, Zygourakis C, Lad Shivanand **Maxwell Boakye** Retrospective propensity score-matched cohort study examining timing of fracture fixation for traumatic

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- thoracolumbar fractures, AANS/CNS spine section meeting, Orlando, 2012
22. Arrigo R, Cheng I, Park J, Carragee E, Alamin T, **Boakye M** Standardized reporting of perioperative complications following cervical corpectomy, AANS/CNS spine section meeting, Orlando 2012
 23. Pelu T, Arrigo R, Cheng I, Park J, Carragee E, Alamin T, **Boakye M** Utility of Clavien-Dindo and Accordion Classification systems for postoperative complications after spinal metastases surgery, AANS/CNS spine section meeting, Orlando 2012
 24. Abdul Baker, Beatrice Ugiliweneza, Chirag Patil, Shivanand Lad, **Maxwell Boakye** Long-term re-operation Rates With Surgical Treatment of Lumbar Degenerative Spondylolisthesis, LSRS, Chicago, 2012
 25. Abdul Baker, Beatrice Ugiliweneza, Chirag Patil, Shivanand Lad, **Maxwell Boakye** Long-term Effects Of Bone Morphogenetic Protein in Lumbar Fusion, LSRS, Chicago, 2012
 26. Shivanand P. Lad; Jacob H. Bagley; Beatrice Ugiliweneza; Ranjith Babu; Isaac Karikari; Chirag G. Patil; **Maxwell Boakye** BMP and Cancer Risk: Results of a large, propensity matched study. NASS, Chicago, 2012.
 27. Abdul Baker; Beatrice Ugiliweneza, Shivanand P. Lad; Chirag G. Patil; **Maxwell Boakye** Long-Term Re-operation Rates and Health Related Cost With Surgical Treatment of Lumbar Spondylolisthesis. Neurosurgical forum presentation. CNS, Chicago, 2012.
 28. Beatrice Ugiliweneza; Ranjith Babu; Chirag G. Patil; Shivanand P. Lad; Abdul Baker; **Maxwell Boakye** Long-term Effects of Bone Morphogenetic Protein in Lumbar Fusion. Neurosurgical forum presentation. CNS, Chicago, 2012.
 29. Michael Rhee; Robbi Lyle Franklin; Ranjith Babu; Beatrice Ugiliweneza; Jonathan E. Hodes; Shahid Mehdi Nimjee; Ali R. Zomorodi; Chirag G. Patil; Shivanand P. Lad; **Maxwell Boakye** Outcomes and Long-term Economic Impact of Coiling Versus Clipping for Unruptured Intracranial Aneurysms. Neurosurgical forum presentation. CNS, Chicago, 2012.
 30. Sunil Jeswani; Miriam Nuno; Debraj Mukherjee; Vanessa Folkerts; Shivanand P. Lad; John S. Yu; **Maxwell Boakye**; Keith L. Black; Chirag G. Patil Patients with Cerebellar Glioblastoma Have the Same Prognosis as Patients with Supratentorial Glioblastoma. Neurosurgical forum presentation. CNS, Chicago, 2012.
 31. Michael Schiraldi; Chirag G. Patil; Debraj Mukherjee; Beatrice Ugiliweneza; Miriam Nuno; Shivanand P. Lad; **Maxwell Boakye** Effect of Insurance and Racial Disparities on Outcomes in Traumatic Brain Injury Patients. Neurosurgical forum presentation. CNS, Chicago, 2012.
 32. Shivanand P. Lad; Beatrice Ugiliweneza, Chirag G. Patil; **Maxwell Boakye** Corpectomy, Discectomy, Laminoplasty, Laminectomy With Fusion For Degenerative Cervical Conditions, CSRS annual meeting, 2012

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33. Debraj Mukherjee; Chirag G. Pati; Beatrice Ugiliweneza; J. Manuel Sarmiento; Miriam Nuño; Sartaaaj Walia; Shivanand P. Lad; **Maxwell Boakye** Interspinous Fusion Device (IFD) Versus Laminectomy For Lumbar Spinal Stenosis: A Comparative Effectiveness Study, LSRS meeting, April 2013
34. Kimberly Meyer; **Maxwell Boakye**. Visitation in the Neuro ICU. 12th Annual Neurocritical Care Society Meeting on September 11-14, 2014
35. Kwan-Jin Jung; Andrea Willhite; Neesha Settipalle; Brandon Wellman; Doug Lorenz; **Maxwell Boakye**; Susan Harkema. Comparison of Cervical Cerebrospinal Fluid Flow Between Healthy Participants and Persons with Spinal Cords Injury using Cine Velocity – Mapping MRI. Society
36. Bert RJ, Muddasani D, Negahdar MJ, Sherwood L, Wellman B, **Boakye M**. Developing Imaging Pulse Sequences for Miniature Swine Traumatic Spinal Cord Injury Model. In: *Proceedings of the American Society of Neuroradiology 55th Annual Meeting & the Foundation of the ASNR Symposium*, Long Beach, California. April 24–27, 2017

Posters Abstract -National Meetings

1. **M. Boakye**, S. C. Huckins, B. I. Taskey, N. M. Szeverenyi, C. J. Hodge. Somatosensory cortical mapping using functional magnetic resonance imaging. Soc.Neurosci.Abstr., Vol.25, part1, p. 153, 1999.
2. **Maxwell Boakye**, Tien Nguyen, Terrence Julien, Bruce Frankel, Timothy Ryken. Evidence Based Analysis of treatment of Ulnar Nerve Entrapment at the Elbow. Scientific Program Publication, CNS Annual Meeting, Boston, 1999.
3. Tien Nguyen, **Maxwell Boakye**, Terrence Julien, Bruce Frankel, Timothy Ryken, Evidence Based Analysis of Anterior Cervical Discectomy With and Without Fusion. Scientific Program Publication, CNS Annual Meeting, Boston, 1999.
4. **Maxwell Boakye**, Sean C. Huckins, Nikolas Szeverenyi, Bobby I. Taskey, Charles J. Hodge. Sensorimotor cortical mapping using functional magnetic resonance imaging and median nerve stimulation: Human Brain Mapping Annual Meeting, Dusseldorf, Germany, 1999.
5. **Maxwell Boakye**, Terrence Julien, Tien Nguyen, Bruce Frankel, Timothy Ryken. Evidence Based Analysis of Cervical Spondylotic Myelopathy Management. Anterior Cervical Decompression versus Posterior Cervical Laminectomy. Scientific Program Publication, AANS Annual Meeting, San Francisco, 2000.
6. Tien T. Nguyen, Paul Kent, **Max Boakye**, Rick Stevens, Charles Hodge. Quantitative Long-Term Imaging of Rat Barrel Cortex. Scientific Program Publication, AANS Annual Meeting, San Francisco, 2000.
7. **Maxwell Boakye**, Sean C. Huckins, Nikolas Szeverenyi, Bobby I. Taskey, Charles J. Hodge. Hyperoxia and the frequency based functional magnetic resonance imaging response to electrical stimulation of the median nerve: Scientific Program Publication, AANS Annual Meeting, Toronto, 2001.

8. Mummaneni PV, **Boakye M**, Haid RW, Rodts GE. Fixation Using C1 Lateral Mass Screws, C2 Pedicle screws, and C2 Pars Screws- Pearls and Pitfalls. Poster Presentation: Southern Neurosurgical Society, Orlando, FL, 2003
9. Mummaneni PV, **Boakye M**, Haid RW, Rodts GE. Transoral odontoidectomy: Lessons Learned from a 15 Year Experience. Poster Presentation: Congress of Neurological Surgeons Annual Meeting, 2003
10. **M. Boakye**, R. Etcheberrigaray, V. Lubierman, B. Wolozin, D. L. Alkon. TEA and Ca²⁺ sensitivity of Potassium Channels in Olfactory Neuroblasts from Alzheimer's and Normal Donors. Soc. Neurosci. Abstr., Vol. 20, Part 2, p. 1573, 1994. CNS poster Presentation- 2003
11. Klugh, Arnett, **Boakye, M**, Kim DH. Comparison of Anatomic Constraints for Transarticular and Pedicle Screw Atlantoaxial Fixation and Investigation of C2 Lamina Anatomy, Accepted AANS Annual Meeting Scientific Programme, New Orleans, 2005
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