

## **Azam Ahmed, M.D.**

### **Education**

#### **Undergraduate**

1996-1999 Bachelor of Science *cum Laude and Chemistry Honors*  
Chemistry Major  
Occidental College, Los Angeles, CA

#### **Graduate/Medical School**

1999-2003 Loyola University Chicago, Stritch School of Medicine  
Maywood, IL

#### **Residency**

2003-2004 Surgery Intern, Department of Surgery, University of Wisconsin Hospital  
and Clinics  
Madison, WI

2004-2010 Neurosurgery Resident, Department of Neurological Surgery, University of  
Wisconsin Hospital and Clinics  
Madison, WI

2009-2010 Chief Resident, Department of Neurological Surgery, University of  
Wisconsin Hospital and Clinics  
Madison, WI

### **Postgraduate/Fellowship**

- 2010-2011 Neuroendovascular Surgery Fellowship, Barrow Neurological Institute  
Phoenix, AZ
- 2011-2012 Cerebrovascular and Skull Base Surgery Fellowship Barrow Neurological  
Institute  
Phoenix, AZ

### **Certification and Licensure**

#### **Specialty/Subspecialty Certification**

- 2016-present Diplomate, American Board of Neurological Surgery

#### **Medical or Other Professional Licensure**

- 2010-present Wisconsin License Number 50858-20  
2010-2012 Arizona License Number 44112

### **Present Appointment/Position**

- 2012-present Staff Physician  
Meriter Hospital  
Madison, WI
- 2012-present Staff Physician  
St. Mary's Hospital  
Madison, WI
- 2012-present Staff Physician  
Veteran's Affairs Hospital  
Madison, WI
- 2012-present Assistant Professor  
Department of Neurological Surgery  
University of Wisconsin School of Medicine and Public Health  
Madison, WI
- 2012-present Co-Medical Director  
Comprehensive Epilepsy Program  
University of Wisconsin Hospital and Clinics  
Madison, WI

2013-present	Co-Director Multi-Disciplinary Pituitary Clinic University of Wisconsin Hospital and Clinics Madison, WI
2014-present	Clinical Leader Neuroendovascular Services, Comprehensive Stroke Center University of Wisconsin Hospital and Clinics Madison, WI
2015-present	Staff Physician UW Health Rehabilitation Hospital Medical Staff Madison, WI
2018-present	Co-Director Multidisciplinary Brain Tumor Clinic University of Wisconsin Hospital and Clinics Madison, WI
2018-present	Medical Director UW Brain Tumor Program University of Wisconsin Hospital and Clinics Madison, WI
2018-present	Director Surgical Epilepsy Program (National Association of Epilepsy Centers Level IV Site) University of Wisconsin Hospital and Clinic Madison, WI

### **Past Appointments/Positions**

None

### **Professional Society Memberships**

2012 to present	Member, Congress of Neurological Surgeons
2013-present	Member, American Association of Neurological Surgeons
2013-present	Member, American Association of Neurological Surgeons/ Congress of Neurological Surgeons Cerebrovascular Section

2014-present	Senior Member, Society of NeuroInterventional Surgery
2014-present	Member, North American Skull Base Society
2015-present	Member, American Heart Association / American Stroke Association
2017-present	Fellow, American College of Surgeons
2017-present	Member, Clinical Event Committee, Enterprise Investigative Device Exemption Studies (IDE)
2018-present	Fellow, American Association of Neurological Surgeons
2018-present	Member, Society for Neuro Oncology
2019-present	Member, Pituitary Network Association
2019-present	Treasurer, Foundation for International Education in Neurosurgery
2019-present	Wisconsin Surgical Society

### **Honors and Awards**

1996	Henry List Freshman of the Year Occidental College, Los Angeles, CA
1996 – 2003	Occidental Trustee Scholar and Occidental Alumni Scholar Occidental College, Los Angeles, CA
1999	<i>cum Laude and Chemistry Honors</i> Occidental College, Los Angeles, CA
2014	Faculty Teaching Award, awarded by UW Neurosurgery Residents, Department of Neurological Surgery, University of Wisconsin School of Medicine and Public Health, Madison, WI
2019	John Sandin Award “The Utility of Carotid Ultrasound to Diagnose Characteristics of Acute Carotid Occlusion and Compare these to Pathological Specimens”, Faculty Mentor to awardee (Demi Dawkins) Department of Neurological Surgery, University of Wisconsin

## Grant Support

### Current

Agency: NINDS/NIH  
Title: UW-Regional Coordinating Center  
U10 NS 086533 (DEMPSEY)  
Role: Sub-I  
\*Effort: Dr. Ahmed has a combined effort of 0.6 Calendar Months or 5% effort for clinical research for the \* projects  
Total Costs: \$1,250,000  
Year(s): 09/25/2013-07/31/2020

Agency: NIBIB/NIH  
Title: One-Stop-Shop Imaging for Acute Ischemic Stroke Treatment  
U01EB021183 (CHEN)  
Role: Co-I  
Effort: 1.2 Calendar Mths  
Total Costs: \$497,530  
Year(s): 09/30/2015-11/30/2019

Agency: NHLBI/NIH  
Title: 4D DSA and 4D Fluoroscopy: Validation of Diagnostic and Therapeutic Capabilities  
R01HL116567 (MISTRETTA)  
Role: Co-I  
Effort: 0.6 Calendar Mths  
Total Costs: \$1,252,539  
Year(s): 2/3/2016-1/31/2021

Agency: NIH/NINDS  
Title: ARCADIA: Atrial Cardiopathy and Antithrombotic Drugs in prevention after Cryptogenic Stroke  
U01NS 095869 (ELKIND)  
Role: Site Co-I: Azam S. Ahmed, MD, Overall PI: Mitchell S. Elkind, MD (Columbia University), Site PI: Luke E Bradbury, MD  
\*Effort: Dr. Ahmed has a combined effort of 0.6 Calendar Months or 5% effort for clinical research for the \* projects  
Total Costs: \$4,072,827 (yearly)  
Year(s): 05/01/2017-04/30/2022

Agency: NIH/NINDS  
Title: MOST trial: Multi-arm Optimization of Stroke Thrombolysis  
U01NS100699 (ADEOYE)  
Role: Site PI, Overall PI: Opeolu M. Adeoye, MD (University of Cincinnati)  
\*Effort: Dr. Ahmed has a combined effort of 0.6 Calendar Months or 5% effort for  
clinical research for the \* projects  
Total Costs: \$3,589,310  
Year(s): 06/1/2018-04/30/2024

Agency: Robert J Dempsey, MD Cerebrovascular Research Award  
Title: C-arm Cone Beam CTA and CTP with Acetazolamide Challenge in  
Aneurysmal Subarachnoid Hemorrhage: Evaluating Predictability for Early  
Ischemia in Cerebral Vasospasm  
Role: Faculty Mentor  
Effort: 0%  
Total Costs: \$15,000  
Year(s): 07/01/2018-06/30/2020

Agency: NIH/SBIR  
Title: Accelerated Minimally Invasive Brain Clot Evacuation Using Guided Drug  
Delivery  
Role: Site PI, Overall PI: Dr. Terrence Oakes  
Effort: 10%  
Total Costs: \$24,128  
Year(s): 03/31/2019-03/31/2020

Agency: NIH/NINDS U01NS1102289  
Title: SATURN: Statins Use in Intracerebral Hemorrhage Patients  
Role: Site PI, Overall PI: Dr. Magdy Selim  
Effort: Dr. Ahmed has a combined effort of 0.6 Calendar Months or 5% effort for  
clinical research for the \* projects  
Total Costs: \$1,299,542  
Year(s): 0/01/2019-05/31/2026

## **Pending**

Agency: NIH Prime  
Title: Novel Device for Evacuation of Intracerebral Hematoma  
Role: City of Hope (BADIE/AHMED)  
Effort: 10%  
Total Costs: \$1,432,741  
Year(s): 12/01/2020-11/30/2025

**GRANT1308435 (Jiang, Jingfeng)**  
**NIH**

Personalized Management of Intracranial Aneurysms Using Computer-aided Analytics  
Role: CO-I

### Major Past Awards

Agency: NIH/NINDS  
Title: MISTIE III. A phase III, randomized, open-label, 500-subject clinical trial of minimally invasive surgery plus rt-PA in the treatment of intracerebral hemorrhage  
U10 NS 08024 (HANLEY)  
Role: Site PI, Overall PI: Daniel Hanley, MD (John Hopkins University)  
Effort: 0% - only patient costs reimbursement for the trial  
Total Costs: \$8,563,103 (Direct)  
Year(s): 09/15/2013-02/28/2019

Agency: NIH/NINDS  
Title: DEFUSE 3. Endovascular therapy following imaging evaluation for Ischemic Stroke 3  
U01NS 092076 (ALBERS)  
Role: Site PI, Overall PI: Gregory Albers, MD (Stanford University)  
Effort: 0% - only patient costs reimbursement for the trial  
Total Costs: Effort for PI per enrolled subject \$6,307.40, \$2,933,258 (yearly)  
Year(s): 09/30/2015-08/31/2018

Agency: NIH Prime  
Title: Phase II: Platform for MR-Guided Neurotherapeutic Drug Delivery  
R43 CS177205 (BARKER/AHMED)  
Role: Site PI  
Effort: 10%  
Total Costs: \$88,487  
Year(s): 12/1/2015-3/31/2017

### Publications

#### Refereed Articles

##### Refereed Articles

1. Sobel R and **Ahmed A.** White Matter Extracellular Matrix Chondroitin Sulfate/Dermatan Sulfate Proteoglycans in Multiple Sclerosis. Journal of Neuropathology and Experimental Neurology, 2001 Dec; 60(12):1198-207.

*Concept Development and Design* 10%  
*Mentoring* 0%

<i>Data Acquisition</i>	100%
<i>Analysis</i>	50%
<i>Writing</i>	50%

- Anderson D and **Ahmed A**. Treatment of patients with Intractable Obsessive-Compulsive Disorder with Anterior Capsular Stimulation. Case Report. J Neurosurg. 2003 May; 98(5):1104-8. DOI: 10.3171/jns.2003.98.51104. PMID: 12744372.

<i>Concept Development and Design</i>	10%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	100%
<i>Analysis</i>	50%
<i>Writing</i>	50%

- Turk AS, **Ahmed A**, Niemann DB, Aagaard-Kienitz B, Brooks N, Levine RL. Utilization of self-expanding stents in the treatment of intracranial atherosclerotic disease in the distal small cerebral vessels. Neuroradiology. 2007 Aug; 49(8):659-63. DOI: 10.1007/s00234-007-229-x. PMID: 17387464.

<i>Concept Development and Design</i>	20%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	100%
<i>Analysis</i>	75%
<i>Writing</i>	75%

- Başkaya MK, **Ahmed AS**, Ateş O, Niemann D. Surgical treatment of blood blister-like aneurysms of the supraclinoid internal carotid artery with extracranial-intracranial bypass and trapping. Neurosurg Focus. 2008; 24(2):E13. DOI: 10.3171/FOC/2008/24/2/E13. PMID: 18275289.

<i>Concept Development and Design</i>	50%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	50%
<i>Analysis</i>	50%
<i>Writing</i>	75%

- Başkaya MK, Kiehn MW, **Ahmed AS**, Ateş O, Niemann DB. Alternative vascular graft for extracranial-intracranial bypass surgery: descending branch of the lateral circumflex femoral artery. Neurosurg Focus. 2008; 24(2):E8. DOI: 10.3171/FOC/2008/24/2/E8. PMID: 18275304.

<i>Concept Development and Design</i>	5%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	50%
<i>Analysis</i>	30%
<i>Writing</i>	20%



6. Ateş O, **Ahmed AS**, Niemann D, Başkaya MK. The occipital artery for posterior circulation bypass: microsurgical anatomy. *Neurosurg Focus*. 2008;24(2):E9. DOI: 10.3171/FOC/2008/24/2/E9. PMID: 18275305.

<i>Concept Development and Design</i>	30%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	50%
<i>Analysis</i>	50%
<i>Writing</i>	50%

7. Joffe AM, **Ahmed A**, Trost GR, Willman K. Transient anesthetic-induced worsening of existing left-sided weakness in a patient undergoing elective anterior cervical discectomy. *J Clin Anesth*. 2009 Mar;21(2):131-4. DOI: 10.1016/j.jclinane.2008.06.034. PMID: 19329019.

<i>Concept Development and Design</i>	75%
<i>Mentoring</i>	20%
<i>Data Acquisition</i>	20%
<i>Analysis</i>	75%
<i>Writing</i>	50%

8. **Ahmed AS**, Zellerhoff M, Strother CM, Pulfer KA, Redel T, Deuerling-Zheng Y, Royalty K, Consigny D, Niemann DB. C-Arm CT Measurement of Cerebral Blood Volume: An Experimental Study in Canines. *AJNR Am J Neuroradiol*. 2009 May;30(5):917-22. DOI: 10.3174/ajnr.A1513. Epub 2009 Mar 19. PMID: 19299488.

<i>Concept Development and Design</i>	50%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	75%
<i>Analysis</i>	50%
<i>Writing</i>	75%

9. **Ahmed AS**, Deuerling-Zheng Y, Strother C, Pulfer KA, Zellerhoff M, Redel T, Royalty K, Consigny D, Lindstrom MJ, Niemann DB. Impact of Intra-arterial injection parameters on arterial, capillary, and venous time-concentration curves in a Canine model. *AJNR Am J Neuroradiol*. 2009 Aug;30(7):1337-41. DOI: 10.3174/ajnr:A1586. Epub 2009 May 20. PMID: 1946063.

<i>Concept Development and Design</i>	50%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	75%
<i>Analysis</i>	50%
<i>Writing</i>	75%

10. Thongpang S, Richner TJ, Brodnick SK, Schendel A, Kim J, Wilson JA, Hippensteel J, Krugner-Higby L, Moran D, **Ahmed AS**, Neimann D, Sillay K, Williams JC. A micro-electrocorticography platform and deployment strategies for chronic BCI applications. Clin EEG Neurosci, 2011 Oct;42 (4), 259-65. DOI: 10.1177/155005941104200412. PMID: 2208124. PMCID: 3653975.

<i>Concept Development and Design</i>	5%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	0%
<i>Analysis</i>	20%
<i>Writing</i>	5%

11. Kalani, Y, **Ahmed AS**, Martirosyan N , Cronk K, Moon K, Albuquerque FC, McDougall CG, Spetzler RF, Bristol RE. Surgical and Endovascular Treatment of Pediatric Spinal Arteriovenous Malformations. World Neurosurg. 2012 Sep-Oct;78(3-4)348-54. DOI: 10.1016/j.wneu.2011.10.036. PMID: 22120563.

<i>Concept Development and Design</i>	75%
<i>Mentoring</i>	20%
<i>Data Acquisition</i>	30%
<i>Analysis</i>	50%
<i>Writing</i>	50%

12. Kalani MY, **Ahmed AS**, Martirosyan NL, Cronk K, Moon K, Albuquerque FC, McDougall CG, Spetzler RF, Bristol RE. Surgical and endovascular treatment of pediatric spinal arteriovenous malformations. World Neurosurg. 2012 Sep-Oct;78(3-4). DOI: 10.1016/j.wneu.2011.10.036. Epub 2011 Nov 1. PMID:22120563.

<i>Concept Development and Design</i>	50%
<i>Mentoring</i>	30%
<i>Data Acquisition</i>	20%
<i>Analysis</i>	50%
<i>Writing</i>	50%

13. Albuquerque FC, **Ahmed A**, Mitha A, Stiefel M, McDougall CG. Endovascular Recanalization of the Chronically Occluded Brachiocephalic and Subclavian Arteries: Technical Considerations and an Argument for Embolic Protection. World Neurosurg. 2013 Dec;80(6):e327-36. DOI: 10.1016/j.wneu.2012.04.031. Epub 2012 Oct 5. PMID: 23013999.

<i>Concept Development and Design</i>	50%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	20%
<i>Analysis</i>	50%
<i>Writing</i>	50%

14. Kalani Y, Nakaji P, Hu Y, **Ahmed A**, & Spetzler R. Extracranial to Intracranial Bypass for Treatment of Complex, Large and Giant Aneurysms of the Middle Cerebral Artery: An Analysis of 27 Years of Experience in 26 Patients. Journal of Neurological Surgery Part B: Skull Base, 2012;73(S 01), A030.

<i>Concept Development and Design</i>	20%
<i>Mentoring</i>	20%
<i>Data Acquisition</i>	20%
<i>Analysis</i>	20%
<i>Writing</i>	10%

15. **Ahmed A**, Spetzler RF. A call to improve the quality of aneurysm outcome studies. J Neurol Neurosurg Psychiatry. 2013 Jan; 84(1):2. DOI: 10.1136/jnmp-2012-303133. Epub 2012 Octo 15. PMID: 23071348.

<i>Concept Development and Design</i>	50%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	100%
<i>Analysis</i>	75%
<i>Writing</i>	100%

16. Albuquerque FC, Ducruet AF, Crowley RW, Bristol RE, **Ahmed A**, McDougall CG. Tranvenous to arterial Onyx embolization. J. Neurointerv Surg. 2014 May; 6(4): 281-5. DOI:10.1136/neurintsurg-2012-010628. Epub 2013. 6. PMID 23468536.

<i>Concept Development and Design</i>	20%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	20%
<i>Analysis</i>	30%
<i>Writing</i>	20%

17. Patel BM, **Ahmed A**, Niemann D. Endovascular treatment of supraclinoid internal carotid artery aneurysms. Neurosurg Clin N Am 2014 Jul;25(3), 425-435. DOI: 10.1016/j.nec.2014.04003. PMID; 24994082.

<i>Concept Development and Design</i>	5%
<i>Mentoring</i>	50%
<i>Data Acquisition</i>	20%
<i>Analysis</i>	50%
<i>Writing</i>	50%

18. Turkogulu E, Seckin H, Gurer B, **Ahmed A**, Uluc K, Pulfer K, Arat A Niemann D, Baskaya MK. The cadaveric perfusion and angiography as a teaching tool: imaging the intracranial vasculature in cadavers. Journal of Neurological Surgery Part B: Skull Base. 2014 Dec;75(6):435-44. DOI:10.1055/s-0034-1386653. Epub 2014. 11. PMID:

25452903, PMID: 4240759.

<i>Concept Development and Design</i>	20%
<i>Mentoring</i>	30%
<i>Data Acquisition</i>	0%
<i>Analysis</i>	30%
<i>Writing</i>	10%

19. Li Y, Niu K, Yang P, Aagaard-Kienitz B, Niemann D, **Ahmed A**, Strother C, Chen GH. Abstract: Mask Free Intravenous 3D Digital Subtracted Angiography (IV 3D-DSA) from a Single Sweep C-arm CBCT acquisition In RSNA. Proc SPIE Int Soc Opt Eng. 2016;9783. Pii:97830V. Doi: 10.1117/12.2216869. Epub 2016 Mar 22. PMID; 29200594. PMCID: 5710838

<i>Concept Development and Design</i>	10%
<i>Mentoring</i>	20%
<i>Data Acquisition</i>	0%
<i>Analysis</i>	30%
<i>Writing</i>	20%

20. Yang P, Schaefer S, Royalty K, **Ahmed A**, Niemann D, Strother C. Measurement in the angiography suite: evaluation of vessel sizing techniques. J Neurointerv Surg. 2016 Sep;8(9): 965-8. DOI: 10.1136/neruointsurg-2015-011920. Epub 2015 Oct 9. PMID: 26453606.

<i>Concept Development and Design</i>	30%
<i>Mentoring</i>	20%
<i>Data Acquisition</i>	0%
<i>Analysis</i>	30%
<i>Writing</i>	20%

21. Verguun S, Gaggl W, Nair VA, Suhonen JI, Birn RM, **Ahmed AS**, Meyerand ME, Reuss J, DeYoe EA, Prabhakaran V. Classification and Extraction of Resting State Networks Using Healthy and Epilepsy fMRI Data. Front Neurosci 2016 Sep 27; 10:440. eCollection 2016. DOI: 10.339/fnjsn.2016.0040. PMID: 27729846. PMCID: 5037187.

<i>Concept Development and Design</i>	5%
<i>Mentoring</i>	0%
<i>Data Acquisition</i>	0%
<i>Analysis</i>	10%
<i>Writing</i>	5%

22. Moon K, Albuquerque F, Levitt M, **Ahmed AS**, Kalani MY, McDougall CG. The myth of restenosis after carotid angioplasty and stenting. J Neurointerv Surg. 2016 Oct;8(10):1006-10. Doi: 10.1136/neruointsurg-2015-011938. Epub 2015 Sep 18.

PMID: 26385787.

<i>Concept Development and Design</i>	20%
<i>Mentoring</i>	30%
<i>Data Acquisition</i>	30%
<i>Analysis</i>	50%
<i>Writing</i>	20%

23. C. Sandoval-Garcia, P. Yang, T. Schubert, S. Schafer, S. Hetzel, **A. Ahmed** and C. Strother. Comparison of the Diagnostic Utility of 4D-DSA with Conventional 2D- and 3D-DSA in the Diagnosis of Cerebrovascular Abnormalities. American Journal of Neuroradiology April 2017, 38 (4) 729-734; DOI: <https://doi.org/10.3174/ajnr.A5137>. Epub 2017 mar 9. PMID: 28279986, PMCID: 5289915.

<i>Concept Development and Design</i>	50%
<i>Mentoring</i>	50%
<i>Data Acquisition</i>	10%
<i>Analysis</i>	50%
<i>Writing</i>	30%

24. Koszewski I, Avey G, **Ahmed A**, Leonhard L, Hoffman M, McCulloch T. Extent of Endoscopic Resection for Anterior Skull Base Tumors: An MRI-based Volumetric Analysis. Journal of Neurological Surgery Part B: Skull Base. 2017 Jun; 78(3):227-234. DOI: 10.1055/s-0036-1597137. Epub 2016 Dec 21. PMID: 28593103. PMCID: 561163.

<i>Concept Development and Design</i>	50%
<i>Mentoring</i>	50%
<i>Data Acquisition</i>	10%
<i>Analysis</i>	50%
<i>Writing</i>	30%

25. Zuckerman SL, Lakomkin N, Magarik JA, Vargas J, Stephens M, Akinpelu B, Spiotta AM, **Ahmed A**, Arthur AS, Fiorella D, Hanel R, Hirsch JA, Hui FK, James RF, Kallmes DF, Meyers PM, Niemann DB, Rasmussen P, Turner RD, Welch BG, Mocco J. Evaluation of previously embolized intracranial aneurysms: inter-and intra-rater reliability among neurosurgeons and interventional neuroradiologists. J Neurointerv Surg. 2018 May;10(5):462-466. doi: 10.1136/neurintsurg-2017-013231. Epub 2017 Sep 16. PMID: 28918386

<i>Concept Development and Design</i>	0%
<i>Mentoring</i>	0%

*Data Acquisition* 10%  
*Analysis* 10%  
*Writing* 5%

26. Cikla U, Sahin B, Hanalioglu S, **Ahmed AS**, Niemann D, Baskaya MK. A novel, low-cost, reusable, high-fidelity neurosurgical training simulator for cerebrovascular bypass surgery. *J Neurosurg*. 2018 May 11:1-9. doi: 10.3171/2017.11.JNS17318. [Epub ahead of print]. PMID: 29749910

*Concept Development and Design* 30%  
*Mentoring* 20%  
*Data Acquisition* 10%  
*Analysis* 50%  
*Writing* 20%

27. Uluc K, Cikla U, Morkan DB, Sirin A, **Ahmed AS**, Swanson K, Baskaya MK. "Minimizing Retraction by Pia-Arachnoidal 10-0 Sutures in Intracranial Dissection" *Oper Neurosurg (Hagerstown)*. 2018 July 1; 15(1):10-14.19. Doi: 10.1093/ons/oxp193. PMID: 29029292.

*Concept Development and Design* 10%  
*Mentoring* 20%  
*Data Acquisition* 0%  
*Analysis* 30%  
*Writing* 30%

28. Kim J, Li Y, Dawkins D, **Ahmed A**. Fracture and Embolization of Distal Guide Catheter during Neuroendovascular Intervention. *World Neurosurg*. 2018 Aug;116:214-218. doi: 10.1016/j.wneu.2018.05.106. Epub 2018 May 23. PMID: 29803065

*Concept Development and Design* 100%  
*Mentoring* 50%  
*Data Acquisition* 0%  
*Analysis* 50%  
*Writing* 50%

29. Corriveau M, **Ahmed A**, Dawkins D, Kienitz BA, Niemann D, Li Y. The effect of flow diverting stents on in vivo intrasaccular aneurysm pressure. *J Clin Neurosci*. 2019 Jan;59:339-341. doi: 10.1016/j.jocn.2018.10.093. Epub 2018 Nov 13. PMID: 30446369

*Concept Development and Design* 50%  
*Mentoring* 50%  
*Data Acquisition* 10%  
*Analysis* 50%

*Writing* 20%

30. Li Y, Funk C, Dawkins D, Simpson D, Yu JJ, Boly M, **Ahmed A**. Leptomeningeal Enhancement Is Associated with Transient Neurologic Deficits after Flow Diversion of Intracranial Aneurysms. *World Neurosurg*. 2018 Dec;120:e94-e99. doi: 10.1016/j.wneu.2018.07.188. Epub 2018 Aug 16. PMID: 30121409

*Concept Development and Design* 50%  
*Mentoring* 75%  
*Data Acquisition* 0%  
*Analysis* 50%  
*Writing* 30%

31. Page P, Meylor J, Li Y, Patel V, **Ahmed A**. Tectal region papillary neuroglial tumor: a case report. *Br J Neurosurg*. 2019 Feb 11:1-3. doi: 10.1080/02688697.2018.1562035. [Epub ahead of print]. PMID: 30741021

*Concept Development and Design* 100%  
*Mentoring* 75%  
*Data Acquisition* 30%  
*Analysis* 50%  
*Writing* 50%

32. Kim J, Li Y, **Ahmed A**. Predictors of Impaired Cerebral Perfusion After Flow Diversion Therapy. *World Neurosurg*. 2019 Mar 28. pii: S1878-8750(19)30883-6. doi: 10.1016/j.wneu.2019.03.203. [Epub ahead of print]. PMID: 30928588

*Concept Development and Design* 50%  
*Mentoring* 50%  
*Data Acquisition* 20%  
*Analysis* 50%  
*Writing* 50%

33. Li Y, Corriveau M, Aagaard-Kienitz B, **Ahmed A**, Niemann D. Differences in Pressure Within the Sac of Human Ruptured and Nonruptured Cerebral Aneurysms. *Neurosurgery*. 2019 Jun 1;84(6):1261-1268. doi: 10.1093/neuros/nyy182. PMID: 29741656

*Concept Development and Design* 50%  
*Mentoring* 50%  
*Data Acquisition* 20%  
*Analysis* 50%  
*Writing* 50%

## Non-Refereed Articles

None

## Chapters in Books

1. **Ahmed AS**, Albuquerque FC. Management of Cerebrovascular Variants. In Neurointerventional Management: Diagnosis and Treatment, 2<sup>nd</sup> Edition of New Edition of Interventional Neuroradiology. Chapter 5 (88-103). Taylor and Francis. 2012.
2. **Ahmed, AS**, Nakaji P. Aneurysms, Intracranial. In Encyclopedia of the Neurological Sciences 2nd ed. Academic Press. 2014.
3. Kalani, Y. **Ahmed, AS**, Nakaji, P. Aneurysms, Surgery. In Encyclopedia of the Neurological Sciences 2nd ed. Academic Press. 2014.
4. Kalani, Y. **Ahmed, AS**, Albuquerque FC. Bypass Surgery. In Encyclopedia of the Neurological Sciences 2nd ed. Academic Press. 2014.
5. **Ahmed, AS**, Albuquerque FC. Endovascular Therapy. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
6. **Ahmed, AS**, Albuquerque FC. Embolization, Therapeutic, Surgical. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
7. **Ahmed, AS**, McDougall CG. Arteriovenous Fistulas. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
8. **Ahmed, AS**, Zabramski J. Hemangiomas. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
9. Kalani, Y. **Ahmed, AS**, Zabramski, J. Cavernous Malformations. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
10. Kalani, Y. **Ahmed, AS**, Albuquerque FC. Cerebral Vasospasm, Treatment of. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
11. **Ahmed, AS**, Spetzler RF, Vascular Steal. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
12. **Ahmed, AS**, Nakaji P. Transposition, Surgical, of Vertebral Artery. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
13. **Ahmed, AS**, Zabramski J. Capillary Telangiectasia. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.



14. **Ahmed, AS**, Spetzler RF. Takayasu's Arteritis. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
15. **Ahmed, AS**, Porter RP. Venous Malformation. In Encyclopedia of Neurological Sciences 2nd ed. Academic Press. 2014.
16. **Ahmed A** and Trost G. Costotransversectomy. Neurosurgical Operative Atlas Third edition. Thieme 2018.
17. **Ahmed A** and Iskandar B. Lumboperitoneal Shunt. Neurosurgical Operative Atlas Third edition. Thieme 2018.

### **Monographs or Books**

None

### **Technical Reports/Other Publications**

None

### **Abstracts**

1. Zellerhoff M, Deuerling-Zheng Y, Strother CM, **Ahmed A**, Pulfer K, Redel T, Royalty K, Grinde J, Consigny D. Measurement of cerebral blood volume using angiographic C-arm systems. Proceedings of the International Society for Optics and Phototonics (SPIE) 7262, 72620H 2009.
2. **Ahmed A**, Sandoval Garcia C, Corriveau M, Uluc K, Bragg T. Transverse Sinus Stent as Treatment for Medically Refractory Idiopathic Intracranial Hypertension: Case Report and Technical Nuances. 2015 American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS) Section on Pediatric Neurological Surgery Annual Meeting. Sept. 2015
3. **Ahmed A**, Koszewski I. Extent of Endoscopic Resection for Anterior Skull Base Tumors: An MRI-Based Volumetric Analysis 26th Annual North American Skull Base Society Meeting February 12-14, 2016. Abstract ID 69134.
4. **Ahmed A**. Mask free intravenous 3D digital subtraction angiography (IV 3D-DSA) from a single C-arm acquisition. SPIE Digital Library as part of the proceedings of the Medical Imaging 2016: Physics of Medical Imaging conference, March 2016.
5. Aagaard-Kienitz B, Niemann D, **Ahmed AS**, Ellertson, Chen, Schafer, Manhart, Strother. AIS Perfusion Imaging in the Angiographic Suite: Initial Experiences and Workflow Assessment. 15th Society of NeuroInterventional Surgery Annual Meeting (SNIS), San Francisco, CA July 22-26, 2018

6. J Kim, Y Li, **A Ahmed**. Predictors of Impaired Cerebral Perfusion After Flow Diversion Therapy. Congress of Neurological Surgeons (CNS) Annual Meeting October 2018 Houston, TX Abstract Number: 517
7. M Olsen, J Meudt, R Weyker, M McCue, R Moskwa, T Oakes, E Brodsky, D Shanmuganayagam, **A Ahmed**, W Block. Feasibility Study of MR Image-Guided Intracerebral Clot Evacuation. 12th Interventional MRI Symposium October 5, 2018 Boston, MA
8. P Prabakaran, T Willman, T McCulloch, **A Ahmed**, I Koszewski. Discordant Radiographic and Endoscopic Findings Regarding Orbital Invasion in Esthesioneuroblastoma: Case Report and Review of the Literature” North American Skull Base Society, September 2019.

### Invited Research Presentations

Local None

Regional None

### National/International

- 1996 **Ahmed A**, Martin KA, Libicki E, Hill MG. Photo induced Disproportionation of a Binuclear Iridium Complex. Southern California Conference on Undergraduate Research (SCCUR) (CHEM.P.40) Los Angeles, CA
- 1997 **Ahmed A**, Photo induced Multiple Electron Transfers from [Ir(COD)pz]<sub>2</sub> to Cp\*Ir(Naphthalene). And Hill MG. Southern California Conference on Undergraduate Research (SCCUR) (PCH2.P.4), Los Angeles, CA (Oral Presentation)
- 2006 Niemann D, **Ahmed A**, Turk A, Aagaard-Kienitz B, Endovascular Management of Intracranial Stenosis. Third Annual American Society of Interventional and Therapeutic Neuroradiology (ASITN) Course and Workshops, Rio Grande, Puerto Rico. (Oral Presentation\_
- 2006 **Ahmed A**, Turk A, Niemann D, Aagaard-Kienitz B, Pulfer K. Influence of the Neuroform Stent on Aneurysm Retreatment Rates. American Society of Neuroradiology (ASNR) 44th Annual Meeting. San Diego, CA (Oral Presentation)
- 2006 **Ahmed A**, Turk A, Niemann D, Aagaard-Kienitz B, Pulfer K. Neuroform Stent Placement in the Treatment of Small Cerebral Vessels. American Society of Neuroradiology (ASNR) 44th Annual Meeting. San Diego, CA (Oral Presentation)

- 2006 **Ahmed A**, Aagaard-Kienitz B, Niemann D, Turk A. Multiple Verapamil Infusions for the Treatment of Recurrent Cerebral Vasospasm after Aneurysmal Subarachnoid Hemorrhage. 2006 Joint Annual Meeting of the AANS/CNS Cerebrovascular Section and the American Society of Interventional & Therapeutic Neuroradiology. Orlando, FL (Oral Presentation and Abstract)
- 2008 **Ahmed A**, Seckin H, Bauer A, Pulfer K, Baskaya M, Niemann D. Anatomical Measurement of Cerebral Vascular Caliber in Cadaveric Specimens with Correlation to Computerized Tomographic Angiography (CTA), DYNA CT, and Three Dimensional Rotational Digital Subtraction Angiography (3D DSA) American Society Interventional and Therapeutic Neuroradiology (ASITN). 5th Annual Meeting. Olympic Valley, CA (Oral Presentation)
- 2008 **Ahmed AS**, Zellerhoff M, Strother CM, Pulfer KA, Redel T, Deuerling-Zheng Y, Grinde J, Consigny D, Niemann DB. C-Arm CT Measurement of Cerebral Blood Volume: An Experimental Study in Canines. Oral Presentation. American Society of Neuroradiology (ASNR) 46th Annual Meeting. New Orleans, LA
- 2008 **Ahmed AS**, Deuerling-Zheng Y, Strother CM, Pulfer KA, Zellerhoff M, Grinde J, Consigny D, Niemann DB. Impact of Injection Parameters on Arterial, Capillary, and Venous Opacification in Digital Subtraction Angiography. American Society of Neuroradiology (ASNR) 46th Annual Meeting New Orleans, LA (Poster Presentation)
- 2009 Kim J, Richner T, Thongpang S, Sillay K, Niemann D, **Ahmed A**, Krugner-Higby L, Williams J. Flexible Thin Film Electrode Arrays for Minimally Invasive Neurological Monitoring. 31st Annual International IEEE EMBS (Institute of Electrical & Electronics Engineers Society and Engineering in Medicine and Biology Society) Conference of the IEEE Engineering in Medicine and Biology Society. Minneapolis, MN (Oral Presentation)
- 2009 Zellerhoff M, Deuerling-Zheng Y, Strother CM, **Ahmed A**, Pulfer K, Redel T, Royalty K, Grinde J, Consigny D. Measurement of cerebral blood volume using angiographic C-arm systems Biomedical Applications in Molecular, Structural, and Functional Imaging at the SPIE Symposium on Medical Imaging. Lake Buena Vista, FL (Oral Presentation)
- 2011 Albuquerque F, **Ahmed A**, Mitha A, McDougall C. The Myth of Restenosis after Carotid Angioplasty and Stenting. The Congress of Neurological Surgery. 2011 Annual Meeting. Washington DC (Presentation: Abstract Number 20)
- 2011 Albuquerque F, **Ahmed A**, Mitha A, McDougall C. The Myth of Restenosis after Carotid Angioplasty and Stenting. The American Academy of Neurological Surgery. 73rd Annual Meeting. Scottsdale, AZ (Oral Presentation)

- 2015 **Ahmed A**, Low-dose Volume-of-interest C-arm CT imaging of intracranial stents and flow diverters. World Federation of Interventional and Therapeutic Neuroradiology (WFITN) 2015. Gold Coast Australia (Oral Presentation)
- 2015 **Ahmed A**. Intravenous three-dimensional digital subtraction angiography for the evaluation of residual aneurysm following surgical clipping. World Federation of Interventional and Therapeutic Neuroradiology 2015 Oral Presentation, Gold Coast Australia
- 2016 NIH StrokeNet Satellite site visit, Gundersen Lutheran, La Crosse, WI
- 2016 NIH StrokeNet Satellite site visit, Aurora St. Luke's, Milwaukee, WI
- 2016 NIH StrokeNet Satellite site visit. Alexian Brothers, Hoffman Estates, IL
- 2016 NIH StrokeNet Satellite site visit, Wheaton Franciscan, Milwaukee WI
- 2017 NIH StrokeNet Satellite site visit, Beloit Memorial, Beloit, IL
- 2017 NIH StrokeNet Satellite site visit, Swedish American, Janesville, WI
- 2017 NIH StrokeNet Satellite site visit, Marshfield Clinic, Marshfield, WI
- 2018 Li Y, **Ahmed A**. Contrast Induced Neurotoxicity: More Prevalent Than We Think. American Society of Neuroradiology September 2018 (Oral Presentation)
- 2019 Prabakaran P, Willman T, McCulloch T, **Ahmed A**, Koszewski I. Discordant Radiographic and Endoscopic Findings Regarding Orbital Invasion in Esthesioneuroblastoma: Case Report and Review of the Literature” North American Skull Base Society (Poster Presentation)
- 2020 Moskwa R , Chawla D , Henak C , **Ahmed A** , and Block W. “Feasibility for MR Elastography to Meet Unmet Need in Intracerebral Hemorrhage Surgical Planning” International Society of Magnetic Resonance in Medicine Sydney Australia (Poster presentation)

## Patents

Thin-Film Micro-Electrode Arrays for Minimally Invasive Neurological Monitoring and Stimulation. P08317US (Patent Pending)

## Educational Activities & Presentations

*(Describe audience whenever possible, e.g., faculty, undergraduates, medical students, residents/fellows, public)*

## Classroom Teaching

Years	Lecture Title	Role	Students	Frequency
2001-2002	Structure of the Human Body Loyola University Stritch School of Medicine	Prosecutor	1 <sup>st</sup> year med students	30 times per year
2016 2017 2019	“Laser Interstitial Thermal Ablation” , Intro to Energy-Tissue Interactions 535 UW-Madison, College of Engineering	Invited Lecturer	Biomedical Engineering students	1 time per year
2017	“Neurosurgical Emergencies & Increased ICP”, Neuroscience Clerkship UW School of Medicine and Public Health	Lecturer	Med students	6 times per year

## CME Presentations

### Departmental

- 2015      Stroke Clinical Trials, 2015 Department of Neurological Surgery Research Day Oral Presentation. University of Wisconsin Hospital and Clinics Madison, WI (Audience: Neurosurgery residents, faculty and staff)
- 2017      Under the Microscope-Neurological Surgery Learning Series, Department of Neurological Surgery, University of Wisconsin, Madison, WI (Audience: Neurosurgery donors)

### UWSMPH/UW Health

- 2005      **Ahmed A** and Iskandar B. Complications of Craniostomosis Surgery. University of Wisconsin Craniofacial Symposium. University of Wisconsin Hospital and Clinics, Madison, WI. (Audience: Neurosurgery and Plastic Surgery physicians, residents and nursing staff)
- 2014      Endoscopic Endonasal Neurosurgery, Neuroscience Nursing Education Series, University of Wisconsin Hospital and Clinics, Madison, WI (Audience: Neuroscience nursing staff)
- 2014      Excellence in Stroke Patient Care, Society of Neurological Interventional Surgery Stroke Summit 2014, University of Wisconsin Hospital and Clinics, Madison, WI (Audience: Neurosurgery, Neurology and Radiology residents, physicians and nursing staff)
- 2016      Neuro Angio Case Presentation Lecture, UWHC D/64 and F8/4 Staff, University of Wisconsin Hospital and Clinics, Madison, WI (Audience: Neurosurgery, Radiology and Neurology nursing staff)

- 2018 Surgical Approaches to Brain Tumors, Neuro Radiology fellows conference, UW Hospital and Clinics, Madison, WI (Audience: Neuroradiology residents and fellows)
- 2018 UW Physician Assistant Program UW, CNS Tumors, University of Wisconsin School of Medicine and Public Health, Madison, WI (Audience: Physician Assistant students, faculty and staff)
- 2018 Pituitary Disorders, UW Emergency Medicine Grand Rounds, UW Hospital and Clinics, Madison, WI (Audience: Emergency Medicine residents, faculty and staff)
- 2018 Endoscopic/ Endonasal Surgery: Gimmick or Game Changer?, UW Endocrine Grand Rounds, UW Hospital and Clinics Endocrine Department, Madison, WI (Audience: Endocrine residents, faculty and staff)
- 2019 Tumors from Symptoms to Diagnosis-A Team Approach, Brain Tumor Conference / Workshop, University of Wisconsin-Madison, Madison, WI (Audience: Oncology and Neurosurgery residents, physicians and staff)
- 2019 Spine / ENIN – Vascular disease / Malformations / Dissection, Neuroradiology Resident Lecture University of Wisconsin Madison, Madison, WI (Neuroradiology residents)
- 2019 Surgical Approach to Skull Base Masses, Neuro Radiology Fellows Conference, UW Hospital and Clinics, Madison, WI (Audience: Neuroradiology residents and fellow)
- 2019 Central Retinal Artery Occlusion, Department of Ophthalmology Grand Rounds, University of Wisconsin School of Medicine and Public Health, Madison, WI (Audience: Ophthalmology faculty, residents and nursing staff)

### **State & Regional**

- 2014 Acute Stroke Interventions, Stroke Coordinators of Wisconsin Committee (SCOW) Presentation Meriter Business Center, Madison, WI (Audience: Stroke Coordinators)
- 2014 Epilepsy- Medical and Surgical Management, Grand Rounds, Kishwaukee Hospital DeKalb, WI (Audience: Neurology and neurosurgery physicians, residents and nursing staff)
- 2015 **Azam Ahmed, MD, Vikram Prabhu, MD, Extended Endoscopic Endonasal Approaches to the Clivus and Odontoid. 2nd Annual Chicagoland Endoscopic**

Endonasal Skull Base Surgery, Loyola University Chicago Stritch School of Medicine (Audience: Neurosurgery and ENT faculty, residents and medical students)

- 2015 Interventional Stroke Update, Emergency Department Meeting, Swedish American Hospital Rockford, IL (Neurology, Neurosurgery and radiology physicians, residents and staff)
- 2016 Stroke Intervention and Post Stroke Medications, Aspirus Hospital Faculty Meeting Wausau, WI (Audience: Neurology and neurosurgery physicians)
- 2017 Brain Tumor Update, UW Health Webinar (Audience: Neurosurgery and Oncology physicians, residents and staff)
- 2017 Invited Speaker, Interventional Management of Stroke, Southeastern WI Association of Vascular and Interventional Radiographers (AVIR), Milwaukee, WI (Audience: Radiology physicians and staff)
- 2017 Invited Speaker, Minimally Invasive Neurosurgery, Grand Rounds Centegra Health Systems. McHenry, IL (Audience: Neurosurgery physicians, residents and staff)
- 2018 Invited Speaker, Endovascular Management of Acute Stroke” WI Radiological Society 69th Annual Meeting, Koehler, WI (Audience: Radiology physicians, residents and staff)
- 2019 Invited Speaker, Neuroendovascular Surgery for Treatment of Stroke, Wisconsin Society of PeriAnesthesia Nurses Conference. Madison, WI (Audience: Perianesthesia nurses and vendors)

### **National/International**

- 2017 Invited Speaker, What’s New in Neurosurgery, Karachi Spine and Minimally Invasive Skull Base Course Resident Boot Camp, Karachi, Pakistan (Audience: Neurosurgery residents)
- 2017 Invited Speaker, How to Use Visual Tools, Karachi Spine and Minimally Invasive Skull Base Course Resident Boot Camp, Karachi, Pakistan (Audience: Neurosurgery residents)
- 2017 Invited Speaker, Endoscopic Endonasal Surgery for the Craniocervical Junction Abnormalities, 16th World Congress of Neurosurgery WFNS Istanbul, Turkey (Audience: Neurosurgeons, residents and advance practice providers)

- 2017 Invited Speaker, Endoscopic Endonasal Approach to the Clivus, 43rd Annual Barrow Symposium, Phoenix, AZ (Audience: Neurosurgery and ENT physicians, fellows and residents)
- 2017 Invited Speaker, Endoscopic Endonasal Approach (EEA) for Tuberculum Sella Meningioma, North American Skull Base Society Conference, New Orleans, LA (Audience: Neurosurgery and ENT physicians, fellows and residents)
- 2017 Invited Speaker, Minimally Invasive Surgery Using Tubular Brain Retractors, Karachi Spine and Minimally Invasive Skull Base Course, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2017 Invited Speaker, Suborbital Approach and Eyebrow Orbitotomy, Karachi Spine and Minimally Invasive Skull Base Course, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2017 Invited Speaker, Extended Endoscopic Endonasal Approaches for Skull Base Pathologies, Karachi Spine and Minimally Invasive Skull Base Course, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2017 Invited Speaker, Lateral Supraorbital Approach, Karachi Spine and Minimally Invasive Skull Base Course, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2017 Invited Speaker, Diagnosis and Management of Subarachnoid Hemorrhage, Karachi Spine and Minimally Invasive Skull Base Course Resident Boot Camp, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2018 Invited Speaker, Brain Path Endoscopy Assisted Craniotomy, Endoscopy/ Skull Base Workshop, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2018 Invited Speaker, Eyebrow Orbitotomy, Endoscopy/ Skull Base Workshop, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2018 Invited Speaker, Anatomy of Anterior and Posterior Petrosal Bone, Endoscopy/ Skull Base Workshop, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2018 Invited Speaker, Endoscopy Skull Base Surgery, Endoscopy/ Skull Base Workshop, Karachi, Pakistan (Audience: Neurosurgery physicians)
- 2018 Invited Speaker, Supraorbital Craniotomy/Lateral Supraorbital Approach, Endoscopy/ Skull Base Workshop, Karachi, Pakistan (Audience: Neurosurgery physicians)



### Clinical Teaching

Years	Student	Role
2013-2014	Biral Patel, MD	Faculty
2014-2015	Fawad Shaheen, MD	Faculty
2016-2017	Yiping Li	Faculty
2017-2018	Colin Son	Faculty
2018-2019	Edward Yapp	Faculty
2019-2020	Demi Dawkins	Faculty

### Mentoring - Clinical

Years	Mentee	Role
2011-present	Clayton Haldeman, Neurosurgery Resident	Faculty Mentor
2012-present	Larry Bodden, Neurosurgery Resident	Faculty Mentor
2016	Anaelise Bekman Undergraduate student	Faculty Mentor
2016	Kishan Patel Undergraduate student	Faculty Mentor
2016	Emme Fung Undergraduate student	Faculty Mentor
2016	Masharib Bashir International visiting medical student	Faculty Mentor
2016	Alysha Rameshk Undergraduate student	Faculty Mentor
2017	Saivenkateshkomal Bathula Undergraduate student	Faculty Mentor
2017	Brandon Huynh Undergraduate student	Faculty Mentor
2017	Kara Morgan Mortensen Undergraduate student	Faculty Mentor
2017	Muhammad Hamza Durani International visiting medical student	Faculty Mentor
2017-present	Jason Kim Undergraduate student/medical student	Faculty Mentor
2018	Colin Millar Medical student	Faculty Mentor

2018	Jeremy Williams	Faculty Mentor
2018	Matt Easton	Faculty Mentor
2018	Sara Berman	Faculty Mentor
2018	Sarah Lechner	Faculty Mentor
2018	Amir Dadgostar	Faculty Mentor
2018	India Anderson-Carter Medical student	Faculty Mentor
2018	Lauren Woldanski Medical student	Faculty Mentor
2018	Jenn Mirrielees Medical Student	Faculty Mentor
2018-2019	John Li Medical student	Faculty Mentor
2019	Brady Lundin Medical Student	Faculty Mentor
2019	Josh Choe Medical student	Faculty Mentor
2019	Samantha Miller Medical Student	Faculty Mentor
2019	Ron Lockington Medical Student	Faculty Mentor
2019	Brian Bizub Medical Student	Faculty Mentor
2019	Delaney Anne Dvorak Undergraduate student	Faculty Mentor

### **Mentoring - Research**

<b>Years</b>	<b>Mentee</b>	<b>Role</b>
2015-2016	Kyle Swanson, MD NIH StrokeNet Fellow	Research Mentor
2016-2017	Sepideh Chagharvand, MD NIH StrokeNet Fellow	Research Mentor
2017-2018	Ignatius Esene, MD NIH StrokeNet Fellow	Research Mentor

### **Service Activities**

#### **Departmental**

2012                      Resident Selection Committee, Department of Neurological Surgery,  
University of Wisconsin School of Medicine and Public Health

- 2012 Neuroendovascular Fellow Selection Committee, Department of Neurological Surgery, University of Wisconsin School of Medicine and Public Health
- 2013 Clinical Competency Committee, Department of Neurological Surgery, University of Wisconsin School of Medicine and Public Health
- 2013-present Member, Program Evaluation Committee (PEC), Department of Neurological Surgery, University of Wisconsin School of Medicine and Public Health
- 2019 Brain Tumor Faculty Recruitment Committee, Department of Neurological Surgery, University of Wisconsin School of Medicine and Public Health
- 2019 Cerebrovascular Fellow Selection Committee, Department of Neurological Surgery, University of Wisconsin School of Medicine and Public Health

**UWSMPH/Hospital**

- 2005-2010 Participant, University of Wisconsin Teaching Academy, Future Faculty Partners Fellow, Madison, Wisconsin.
- 2012 Member, Stroke Program improvement initiative: decreasing door to puncture time, UW Health, Madison, WI
- 2012-present Participant, Brain Tumor Program meeting (Quarterly), UW Health
- 2012-present Participant, Stroke Program meeting (Quarterly), UW Health
- 2013-2015 Participant, Stroke Program Improvement Team meetings (monthly), UW Health, Madison, WI
- 2014 Neurosurgery Co-leader, JCAHO Comprehensive Stroke Center Certification Committee
- 2015-present Member, SQRC: Stroke Program Quality and Regulatory Committee (monthly), UW Health, Madison, WI
- 2016-2018 Alternate Member, UW Health Medical Board, Madison, WI
- 2017-present Member, Hybrid Angiography Suite/ Operating Room (Hybrid) Planning

- Committee, UW Health, Madison, WI
- 2018 Neurosurgery Co-leader, JCAHO Comprehensive Stroke Center Recertification Committee
- 2018-present Elected Member, UW Medical Board, UW Health, Madison, WI
- 2018-present Member, East Campus Design-Specialty Clinic Design, University of Wisconsin-Madison, Madison, WI
- 2018-present Leader and Organizer, CNS Disease Oriented Work Group
- 2018-present Member, East Campus Design - Oncology Multi-Disciplinary/Surgical Oncology, University of Wisconsin-Madison, Madison, WI
- 2019 Planning Committee, Brain Tumor Conference/ Workshop University of Wisconsin-Madison
- 2019-present Member, Dr. Ian Koszewski Mentoring Committee, Department of Otolaryngology, University of Wisconsin School of Medicine and Public Health
- 2019-present Member, Robert Moskwa Mentoring Committee, Department of Biomedical Engineering, University of Wisconsin-Madison
- 2019-present Member, Facial Nerve Team, UW Health, Madison, WI
- 2019-present Member, UWCCC Translational Science BioCore Advisory Committee, University of Wisconsin School of Medicine and Public Health
- 2019-present Member, Oncology Project - Leadership/Accountability Work Group, UW Health, Madison, WI
- 2019-present Member, UW Health Oncology Executive Steering Committee, UW Health, Madison, WI

### **National/International**

- 2013-2016 Member, the Acute Working Group of StrokeNet
- 2015-present Endovascular section Editor for World Neurosurgery (Input Factor)
- 2019-present Treasurer, Foundation for International Education in Neurosurgery

## **Other Activities**

NIH StrokeNet, meeting participant:

2014 Arlington VA  
2015 Nashville, TN  
2015 Bethesda, MD  
2016 Los Angeles, CA  
2016 Atlanta, GA  
2017 Houston, TX  
2018 Los Angeles, LA

NIH StrokeNet RCC24 Leadership meeting participant:

06/13/2016  
07/18/2016  
10/10/2016  
11/21/2016  
01/09/2017  
03/06/2017  
05/01/2017  
06/19/2017  
07/10/2017  
08/07/2017  
09/11/2017  
11/20/2017