

**The Faculty of Medicine of Harvard University  
Curriculum Vitae**

**Date Prepared:** April 29, 2025  
**Name:** Theresa Williamson  
**Office Address:** 55 Fruit Street  
Wang 745  
Boston, MA 02114  
**Home Address:** 4 Fairlee St.  
Somerville, MA 02144  
**Work Phone:** 617-643-5687  
**Work Email:** twilliamson1@mgh.harvard.edu

**Education:**

08/2005- 05/2009	BS	Molecular, Cellular, and Development Biology	Yale College
08/2009- 05/2014	MD	Medicine	Yale University School of Medicine
06/2021- 05/2023	MPH	Biostats and Epidemiology	Harvard Chan School of Public Health

**Postdoctoral Training:**

06/14-06/21	Resident	Neurological Surgery	Duke University School of Medicine, Department of Neurosurgery
07/20-05/21	Fellow	Surgical Ethics	American College of Surgeons/University of Chicago MacLean Center of Ethics
07/20-07/21	Enfolded CAST Fellow	Complex Spine Surgery	Duke University School of Medicine, Departments of Neurosurgery and Orthopedic Surgery, Division of Spine Surgery

**Faculty Academic Appointments:**

2021-	Assistant Professor	Neurosurgery	Harvard Medical School
-------	---------------------	--------------	------------------------

2021-	Member of the Faculty	Center for Bioethics	Harvard Medical School
-------	-----------------------	----------------------	------------------------

**Appointments at Hospitals/Affiliated Institutions:**

2021	Assistant Professor	Neurosurgery	Massachusetts General Hospital
------	---------------------	--------------	--------------------------------

**Faculty Membership in Harvard Initiatives, Programs, Centers, and Institutes:**

2022-	Director		Neurotech Justice Accelerator at MGB
2023-	Chair, Surgical Ethics Working Group		Harvard Medical School, Harvard Center for Bioethics
2024-	Director, Minimally Invasive Spine Service		Mass General Hospital, Department of Neurosurgery

**Other Professional Positions:**

2014-2020	Contributing Author	Oprah Magazine	
2017-2018	MD Leader	Feagin Healthcare Leadership Program	
2017-2018	Doximity Scholar	Doximity	
2017-2020	Co-Founder, Resident Leader	Duke Department of Neurosurgery, Women in Neurosurgery	
2017-2021	Resident Researcher	Duke University Margolis Health Policy Center, Illness Communication Laboratory	
2017-	Founder	THX Rx (WellSpentMD): Mobile Application aimed at Improving Physician Wellness. Duke Health Private Diagnostic Clinic and Duke Graduate Medical Education	This role is ongoing in collaboration with Duke and aims at multi-institutional launch in the near future.
2019-	Mentor	Duke University Collegiate Athlete Pre-medical Experience (CAPE) Program.	

**Committee Service:****Local**

2018-2019	Duke University Hospital Falls with Head Injury Committee	Duke University
2018-2019		Physician Advocate
2018-2021	Duke Department of Neurosurgery Diversity and Inclusion Committee	Duke University Department of Neurosurgery
2018-2021		Member
2022	Newtown Wellesley Hospital Neurosurgery Chair Search Committee	NWH Surgery and MGH Neurosurgery
2023	Neurosurgery Chief Administrator Search Committee	MGH Neurosurgery
2023-	Steering Committee for the Spaulding Rehabilitation Network's Innovative Treatments for patients with disorders of consciousness (ITDC)	Spaulding Rehabilitation Network

**Regional**

2022-	Ethics Committee	Massachusetts Medical Society
-------	------------------	-------------------------------

**National**

2021-2022	American Association of Neurological Surgeons Diversity Taskforce	American Association of Neurological Surgeons
2021-		Member
2022	Spine Section Social Media Committee	AANS/CNS Spine Section
2024-	AANS/CNS Scientific Program Committee	AANS/CNS Spine Section
2025-	<i>NINDS Traumatic Brain Injury (TBI) v3.0 Common Data Element Working Group</i>	National Institute of Health

**International**

2021	Congress of Neurological Surgeons Executive Committee	Congress of Neurological Surgeons
2021		Member at Large, CNS SANS Vice Editor, CNS Quarterly Vice Editor, CNS Nexus Vice Chair, CNS Online Education Vice Chair, Chair Wellness Committee
2024-	Innovation and Technology Committee	World Federation of Neurological Surgery

2024-	Women in Neurosurgery Diversity Committee Faculty Advisor	AANS/CNS Women in Neurosurgery
-------	---	--------------------------------

**Professional Societies:**

2014-	American Association of Neurological Surgeons
2014-	Congress of Neurological Surgeons
2014-	Women in Neurosurgery (WINs)
2021-	North American Spine Society
2021-	Massachusetts Medical Society
2024-	Society for Minimally Invasive Spine Surgery

**Grant Review Activities:**

2024	Community-Engaged Health Equity Research in Neuroscience, R01 and R23 NIH/NINDS Review Committee	National Institute of Health, NINDS
------	---	-------------------------------------

**Editorial Activities:**

**Ad hoc Reviewer**

*Medical Decision Making*

**Other Editorial Roles**

2018	Guest Editor	The American Journal of Surgery
2022-	Editor in Chief	Clinical Neurosurgery
2023-	Associate Editor	Spine Journal
2024-	Editor	Congress of Neurological Surgeons Quarterly

**Honors and Prizes:**

2014	Miriam Kathleen Dasey Award	Yale University School of Medicine	Award given to the student with promise to fulfill the ideals of a compassionate physician
2014	Peter Granuum Prize	Yale University School of Medicine	Award presented to an outstanding African American graduate

2016	Nomination for Resident Teaching Award	Duke University Hospital	
2017	Distinguished Poster Award	Neurocritical Care Society	Awarded for best posters in neurocritical care for project performed in conjunction with Keith Dombrowski, MD on hospital falls with head injury protocol
2017	Resident Clinician Award	Duke University Department of Neurosurgery	
2019	Spinal Trauma Presentation Award	National Neurotrauma Society	Awarded for best project in spinal trauma to mentee, Sarah Hodges, BS for abstract on hospital transfer patterns in spinal cord injury
2020	Resident Leadership Award	Duke University Department of Neurosurgery	
2022	Shelly Timmons Leadership Award	AANS	
2023	AMWA Inspire Award	American Medical Women's Association	
2025	Honorable Mention for the <i>Shared Decision Making Clinical Champion Award</i>	Health Decision Sciences Center, Mass General Brigham Hospital, Harvard Medical School	
2025	Socioeconomic Poster of the Year	American Association of Neurological Surgeons	

### **Report of Funded and Unfunded Projects**

#### **Past**

- 2012-2013    Non-invasive Diagnostics in mild Traumatic Brain Injury  
NIH-NINDS; Diversity Supplement Grant, Research Supplement to Promote Diversity in Health-Related Research (35K)  
Co-Investigator (PI: Douglas Smith, MD)  
1. To evaluate non-invasive diagnostic methods, specifically brainstem auditory evoked potentials in evaluating the severity of injury sustained following rotational head injury in a swine model.

- 2016-2017 Reducing Neurosurgeon Burnout to Improve Quality of Care (2K)  
Duke University Graduate Medical Education,; High Value Care Quality Improvement Competition Grant  
PI (\$2000)  
1. Create a time-banking program for surgical residents. 2. Improve access to counseling for surgical residents.
- 2019-2020 Expansion of THX Rx (Wellspend MD): Mobile Application aimed at Improving Physician Wellness.  
Duke Private Diagnostic Clinic; Duke Private Diagnostic Clinic Grant (95K)  
PI (\$95000)  
1. Create version II of wellness application including update of features based on iterative feedback from program pilot. 2. Expand THX Rx to Duke Health System.
- 2020-2021 Communication Differences in Critical Decision-Making in Severe TBI  
Duke Center for Research to Advance Health Equity; REACH Equity Center Research Scholar (5K)  
Co-Investigator (PI: C. Rory Goodwin MD PhD)  
1. Determine cross-cultural differences in surrogate decision maker's perception of communication from the surgical team about the decision to pursue emergent surgery versus withholding life-sustaining intervention in the setting of severe traumatic brain injury (TBI).
- 2022-2023 Neurotech Justice  
Dana Foundation Pilot Grant  
Co-PI (Co-PI: Gabriel Lazaro Munoz JD PHD, Francis Shen JD, Theresa Williamson MD, \$100,000)  
Establish a Center Surrounding Ethics and the Future of Neurotech

## Current

- 2022- Spine Surgery for Pain: Learning to help those we can help  
MGH Clinical Teacher Development Award  
PI (PI: Theresa Williamson, MD, \$34,500 per year for 4 years)  
Define the topography of patient reported symptoms associated with lumbar spine surgery. Identify racial and ethnic disparities in patient reported symptoms and association with treatment modality. Implement a trial to determine if a shared decision making tool improves treatment and preference alignment.
- 2024-2029 Neurotech Justice Accelerator at MGB  
Dana Foundation Neuroscience and Society, Dana Center Initiative  
PI (PI: Co-PIs: Drs. Francis Shen, Gabriel Lazaro Munoz, \$5 million/5 years)  
Establish a center to study and advocate for ethical implication of neurotechnology in biomedical sciences and the law

2024- Values and Equity-Based Decision Modeling in Lumbar Spondylolisthesis Treatment  
 AHRQ P30, Learning Health Systems  
 PI (\$134,840)  
 Create Learning Health System to improve equity in lumbar spine pain

### **Projects Submitted for Funding**

2025 In Depth Analysis and Modeling of Sociodemographic Disparities in Access to Neuromodulation  
 NIH Brain Initiative Neuroethics R01  
 PI (\$3 million)  
 Understand the mechanisms of limited uptake of and access to neuromodulation therapies to find targets to improve utilization. Review date 5/2/25.

2025- Genomic Tests for Substance Use Disorders in Clinical Care: Examining Challenges and Opportunities  
 NIH Ethical, Legal and Social Implications (ELSI) R01  
 Co-PI (Co-PI: Dr. Gabriel Lazaro-Munoz, \$3 million)  
 Understand the ethical and practical implications of genetic testing to determine peri-operative risk of opioid dependence. Review date June 2025.

### **Unfunded Current Projects**

2020- Clinical, Socioeconomic, and Hospital-Level Factors Associated with Decisions to  
 Awaiting Operate following Severe Traumatic Brain Injury  
 Publication Investigator (PI: Marc Ryser PhD)  
 An analysis of factors associated with having a craniotomy in the setting of severe traumatic brain injury, using the National Trauma Databank.

### **Report of Local Teaching and Training**

#### **Teaching of Students in Courses:**

2021-2021	Science and Society: Bioethics	Duke University, Durham, NC (Virtual)
	Duke University Undergraduate Course	2 hours / year
2021-2024	Masters of Bioethics Clinical Ethics	Harvard Center for Bioethics/Harvard
	Consortium Seminar	Medical School
	Master's Student	0.5 hours / week

#### **Clinical Supervisory and Training Responsibilities:**

2021-	Supervision of Neurosurgical Residents	Massachusetts General Hospital
	and Medical Students	12 hours / week
	Residents, Medical Students	

**Formally Mentored Harvard Students (Medical, Dental, Graduate, and Undergraduate):**

- 2022-2023 Dana Center Planning Grant Neurotech Justice  
Formal mentor for 2 student fellows including medical student Christiana Oshote to aid in the development of a neurotech justice symposium and listening session as well as formal career development and planning
- 2022- Harvard Center for Bioethics, Faculty Advisor  
Faculty Advisor to 3 students - Dwight Ferguson, Jade Ealy, and Michele Anzabi with course and practicum planning for graduation as well as career support and planning.

**Local Invited Presentations:**

☒ *No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

- 2020 MD Leader Talk/Lecture  
Duke University Feagin Leadership Program (Virtual)
- 2021 Neurosurgical Decision-Making in Neurotrauma: A Case for Surgical Ethics / Grand Rounds  
Duke University Department of Medicine, Division of Palliative Care (Virtual)
- 2022 Surgical Decision Making and Equity: Uncertainty Begets Disparity / Grand Rounds  
Newtown Wellesley Hospital Department of Surgery

**Report of Regional, National and International Invited Teaching and Presentations**

☒ *No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

**National**

- 2019 Wellness and Creating Resilience/Oral Presentation/Presenter  
Society of Neurological Surgeons Meeting, Seattle
- 2020-2020 Neurosurgical Decision-Making in Neurotrauma: A Case for Surgical Ethics / 1  
Baltimore, MD  
University of Maryland Medical Center Department of Neurosurgery Grand Rounds
- 2020-2020 Neurosurgical Decision-Making in Neurotrauma: A Case for Surgical Ethics / 1  
Boston, MA  
Massachusetts General Hospital Department of Neurosurgery Grand Rounds
- 2020-2021 New England Journal Resident 360 Discussion Regarding Race and  
Medicine/Moderator  
Virtual
- 2022 Ethics and Spine Surgery/Invited Talk/Speaker  
Duke University Spine Symposium



- 2023 Neurotech Justice at the Bedside: Thinking about what we say to patients about technology / Symposium  
University of Florida DBS Think Tank
- 2023-2024 Chess Fellows Lecture (yearly neuroethics lecture) / Invited Lecture  
Washington University of St. Louis Department of Surgery
- 2025-2025 Spinal Surgery Decision Making in the Age of Neurotech / Grand Rounds  
University of Virginia Department of Neurosurgery
- 2025-2025 Achieving Equity and Wellness in Neurosurgery: Trying something NEW / Grand Rounds  
Mayo Department of Neurosurgery

### **International**

- 2018 When in Doubt, Operate: An International Survey of Neurosurgeon Decision Making in Severe TBI/Oral Presentation/Presenter  
American Association of Neurological Surgeons Annual Meeting, New Orleans
- 2018 Predictors of Withdrawal of Care in Patients with Severe Traumatic Brain Injury: A Nationwide Analysis/Oral Presentation/Presenter  
Congress of Neurological Surgeons Annual Meeting, Houston
- 2020 How does bias influence SCI care? A national study of gender and age in surgical decision making/Oral Presentation/Presenter  
AANS/CNS Spine Section Annual Meeting, Las Vegas
- 2021 Management of Osteomyelitis and Discitis: Operative Techniques and Case-based Discussions/Discussant  
Congress of Neurological Surgeons Annual Meeting, Austin
- 2022 Harvard Surgical Ethics Conference / Symposium  
Harvard Center for Bioethics, Harvard Medical School  
Moderator and Speaker
- 2022 Racial Disparities in Surgical Treatment of Degenerative Spondylolisthesis Using PROMIS Pain Interference and Physical Function Scores/ Oral Presentation/  
Presenting Author  
Congress of Neurological Surgeons, San Francisco
- 2022 The Evolving Science of Surgical Preoperative Optimization / Symposium  
North American Spine Society, Chicago, IL
- 2022 Communicating Diagnosis and Uncertainty / Symposium  
International Neuroethics Society Annual Meeting, Montreal, CA
- 2022 Ethics in Spine Surgery / Invited Lecture  
Virtual Global Spine Conference

2023	Association Between Area-Level Socioeconomic Deprivation And Spine Care Quality For Lumbar Spondylolisthesis: A Multicenter Prospective Study / Platform DSPN Spine Summit
2023	CNS Annual Meeting Sunrise Session on Healthcare Disparity, Moderator / Symposium Congress of Neurological Surgeons Annual Meeting, Washington DC
2023	Who's Outcome is it Anyway: Outcomes in Severe TBI / Platform ACRM - American Congress of Rehab Medicine
2023-2023	Surgical Ethics and Surgical Disparities: Combining forces to make an Impact / Invited Lecture American College of Colorectal Surgeons Annual Meeting Humanites Lecture
2024	Prospective Evaluation of a Patient-Centered Decision Aid Tool Unveils Potential Socioeconomic Disparities Affecting Treatment Choices for Lumbar Degenerative Disorders / Platform AANS/CNS Section on Spine Disorders
2024	Data on financial toxicity concerns for patients as neurotechnology use increases: Where we are and where we need to go / Poster International Neuroethics Society Awarded Outstanding Poster
2024	What we do and what we plan means nothing until we show value: registries are the answer / Platform ISASS Annual Meeting
2024	Grade 2 L4-5 Spondylolisthesis That Moves to Grade 3 on Flexion: LLIF vs. TLIF / Platform American Academy of Neurological Surgery Annual Meeting
2024-2025	Experiences of Neurosurgical Oncology Patients With Non-English Language Preference (NELP) / Platform Congress of Neurological Surgeons
2025-2025	Discerning the Social Support Factors That Protect Against Psychological Complications in Traumatic Brain Injury Patients: A Cohort Study / Platform American Academy of Neurosurgical Annual Meeting

### **Report of Clinical Activities and Innovations**

#### **Past and Current Licensure and Certification:**

2021-	MA State Medical License Granted T289635
2021-	Mass Controlled Substances License
2024-	New Hampshire Medical License
2024-	American Board of Neurological Surgery, Board Certification

#### **Practice Activities:**

2021-	Clinical Neurosurgeon, Spinal Neurosurgeon	Massachusetts General Hospital	40 hours / week
-------	--	--------------------------------	-----------------

**Clinical Innovations:**

Duke University Department of Neurosurgery Coaching Program (2018-2021)	I led an effort to create a coaching program for neurosurgical residents. This effort included collaboration with the Department of Psychiatry and Clinical Psychology to staff coaches and develop individualized and group curricula aimed at strengthening resident resilience, team-building, problem-solving, and well-being. This work was published in the Neurosurgery journal and has served as a template for other programs in the country.
---	--

**Report of Education of Patients and Service to the Community**

☒ *No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

**Activities**

2022	Museum of Science Brain Education Day
------	---------------------------------------

**Educational Material for Patients and the Lay Community:**

***Books, articles, and presentations in other media***

2016	Do this to get better care from your doctor.	The Oprah Magazine	Williamson T. Do this to get better care from your doctor. The Oprah Magazine, Feb 2016.
2016	How to deal with a scary diagnosis.	The Oprah Magazine	Williamson T. How to deal with a scary diagnosis. The Oprah Magazine, June 2016.
2020	Alone but not lonely: Lessons from the hospital during visitation restrictions.	Oprah magazine.com	Williamson T. Alone but not lonely: Lessons from the hospital during visitation restrictions. Oprah magazine.com, May 2020.

**Recognition:**

2020	Interview	Wu, K. Scientific journals commit to diversity but lack the data. The New York Times, Nov 2020.
------	-----------	---

## **Report of Scholarship**

### **Peer-Reviewed Scholarship in print or other media:**

#### **Research Investigations**

1. Müller Smith K, **Williamson TL**, Schwartz ML, Vaccarino FM. Impaired motor coordination and disrupted cerebellar architecture in Fgfr1 and Fgfr2 double knockout mice. Brain Res. 2012 Jun 15;1460:12-24. PMID: 22578469. PMCID: PMC3361544. <https://doi.org/10.1016/j.brainres.2012.04.002>. Epub 2012 Apr 11
2. Ediriwickrema A, **Williamson T**, Hebert R, Matouk C, Johnson MH, Bulsara KR. Intracranial stenting as monotherapy in subarachnoid hemorrhage and sickle cell disease. J Neurointerv Surg. 2013 Mar;5(2):e4. PMID: 22248629. <https://doi.org/10.1136/neurintsurg-2011-010224>. Epub 2012 Jan 16
3. Kuzmik GA, **Williamson T**, Ediriwickrema A, Andeejani A, Bulsara KR. Flow diverters and a tale of two aneurysms. J Neurointerv Surg. 2013 Jul;5(4):e23. PMID: 22510458. <https://doi.org/10.1136/neurintsurg-2012-010316>. Epub 2012 Apr 17
4. **Williamson T**, Grant RA, Bulsara KR. Resection of lateral temporal lobe arteriovenous malformations. Acta Neurochir (Wien). 2013 Aug;155(8):1565-1569. PMID: 23605372. <https://doi.org/10.1007/s00701-013-1710-4>. Epub 2013 Apr 21
5. Corley J, **Williamson T**. Women in Neurosurgery: Final Frontier of Career Women's Movement. World Neurosurg. 2018 Mar;111:130-131. PMID: 29275051. <https://doi.org/10.1016/j.wneu.2017.12.086>. Epub 2017 Dec 21
6. Elsamadicy AA, Charalambous LT, Sergesketter AR, Drysdale N, Adil SM, Freedman IG, **Williamson T**, Kundishora AJ, Camara-Quintana J, Abd-El-Barr MM, Goodwin CR, Karikari IO. Intraoperative ketamine may increase risk of post-operative delirium after complex spinal fusion for adult deformity correction. J Spine Surg. 2019 Mar;5(1):79-87. PMID: 31032442. PMCID: PMC6465460. <https://doi.org/10.21037/jss.2018.12.10>  
Paper later corrected in addendum in J Neurosurg Spine Sept 2019
7. Elsamadicy AA, Lubkin DT, Sergesketter AR, Adil SM, Charalambous LT, Drysdale N, **Williamson T**, Camara-Quintana J, Abd-El-Barr MM, Goodwin CR, Karikari IO. Rate of instrumentation changes on postoperative and follow-up radiographs after primary complex spinal fusion (five or more levels) for adult deformity correction. J Neurosurg Spine. 2019 Mar 1;30(3):376-381. PMID: 30641841. <https://doi.org/10.3171/2018.9.SPINE18686>. Epub 2019 Jan 11
8. Howell EP, **Williamson T**, Karikari I, Abd-El-Barr M, Erickson M, Goodwin ML, Reynolds J, Sciubba DM, Goodwin CR. Total en bloc resection of primary and

- metastatic spine tumors. *Ann Transl Med.* 2019 May;7(10):226. PMID: 31297391. PMCID: PMC6595209. <https://doi.org/10.21037/atm.2019.01.25>
9. **Williamson T**, Ryser MD, Abdelgadir J, Lemmon M, Barks MC, Zakare R, Ubel PA. Surgical decision making in the setting of severe traumatic brain injury: A survey of neurosurgeons. *PLoS One.* 2020;15(3):e0228947. PMID: 32119677. PMCID: PMC7051065. <https://doi.org/10.1371/journal.pone.0228947>. Epub 2020 Mar 2
  10. **Williamson T**, Ryser MD, Ubel PA, Abdelgadir J, Spears CA, Liu B, Komisarow J, Lemmon ME, Elsamadicy A, Lad SP. Withdrawal of Life-supporting Treatment in Severe Traumatic Brain Injury. *JAMA Surg.* 2020 Aug 1;155(8):723-731. PMID: 32584926. PMCID: PMC7301301. <https://doi.org/10.1001/jamasurg.2020.1790>  
Invited Commentary: Mosenthal Anne C. Dying of Traumatic Brain Injury. 2020
  11. **Williamson TL**, Cutler A, Cobb MI, Rahimpour S, Butler ER, Harward SC, Cummings TJ, Friedman AH. Autograft-derived spinal cord mass in the cervical spine following transplantation with olfactory mucosa cells for traumatic spinal cord injury: case report. *J Neurosurg Spine.* 2021 Feb 1;34(2):254-258. PMID: 33157525. <https://doi.org/10.3171/2020.6.SPINE20251>. Epub 2020 Nov 6
  12. Elahi C, **Williamson T**, Spears CA, Williams S, Nambi Najjuma J, Staton CA, Nickenig Vissoci JR, Fuller A, Kitya D, Haglund MM. Estimating prognosis for traumatic brain injury patients in a low-resource setting: how do providers compare to the CRASH risk calculator?. *J Neurosurg.* 2021 Mar 1;134(3):1285-1293. PMID: 32244205. <https://doi.org/10.3171/2020.2.JNS192512>. Epub 2020 Apr 3
  13. **Williamson T\***, Giusto A\*, Haglund M, McDaniel K, Weisberg L. Commentary: "Everyone Needs an Ally": Piloting Peer-CALLY, a Peer-Coaching Program Using Existing Resources for Neurosurgery Residents. *Neurosurgery.* 2021 May 13;88(6):E558-E561. PMID: 33647929. PMCID: PMC8324215. <https://doi.org/10.1093/neuros/nyab049>
  14. **Williamson T**, Hodges S, Yang LZ, Lee HJ, Gabr M, Ugiliweneza B, Boakye M, Shaffrey CI, Goodwin CR, Karikari IO, Lad S, Abd-El-Barr M. Impact of US hospital center and interhospital transfer on spinal cord injury management: An analysis of the National Trauma Data Bank. *J Trauma Acute Care Surg.* 2021 Jun 1;90(6):1067-1076. PMID: 34016930. PMCID: PMC8243877. <https://doi.org/10.1097/TA.0000000000003165>
  15. Price M, Howell EP, Dalton T, Ramirez L, Howell C, **Williamson T**, Fecci PE, Anders CK, Check DK, Kamal AH, Goodwin CR. Inpatient palliative care utilization for patients with brain metastases. *Neurooncol Pract.* 2021 Aug;8(4):441-450. PMID: 34277022. PMCID: PMC8278343. <https://doi.org/10.1093/nop/npab016>. Epub 2021 Feb 24
  16. Srinivasan ES, Karikari IO, **Williamson T**, Shaffrey CI, Than KD. Front-Back Cervical Deformity Correction by Anterior Cervical Discectomy and Fusion With Posterior

- Instrumentation: 2-Dimensional Operative Video. *Oper Neurosurg* (Hagerstown). 2021 Aug 16;21(3):E235. PMID: 34114027. <https://doi.org/10.1093/ons/opab191>
17. Jones RC, Creutzfeldt CJ, Cox CE, Haines KL, Hough CL, Vavilala MS, **Williamson T**, Hernandez A, Raghunathan K, Bartz R, Fuller M, Krishnamoorthy V. Racial and Ethnic Differences in Health Care Utilization Following Severe Acute Brain Injury in the United States. *J Intensive Care Med*. 2021 Nov;36(11):1258-1263. PMID: 32912070. <https://doi.org/10.1177/0885066620945911>. Epub 2020 Sep 10
  18. **Williamson TL**, Adil SM, Shalita C, Charalambous LT, Mitchell T, Yang Z, Parente BA, Lee HJ, Ubel PA, Lemmon ME, Galanos AN, Lad SP, Komisarow JM. Palliative Care Consultations in Patients with Severe Traumatic Brain Injury: Who Receives Palliative Care Consultations and What Does that Mean for Utilization?. *Neurocrit Care*. 2022 Jun;36(3):781-790. PMID: 34988887. PMCID: PMC9117411. <https://doi.org/10.1007/s12028-021-01366-2>. Epub 2022 Jan 5
  19. **Williamson T**, Massaad E, Shin JH. Commentary: Sacral Pedicle Subtraction Osteotomy for Treatment of High-Grade Spondylolisthesis: A Technical Note and Review of the Literature. *Oper Neurosurg* (Hagerstown). 2022 Aug 1;23(2):e93-e94. PMID: 35838458. <https://doi.org/10.1227/ons.0000000000000310>. Epub 2022 Jun 9
  20. Tabarestani TQ, Lewis NE, Kelly-Hedrick M, Zhang N, Cellini BR, Marrotte EJ, **Williamson T**, Wang H, Laskowitz DT, Faw TD, Abd-El-Barr MM. Surgical Considerations to Improve Recovery in Acute Spinal Cord Injury. *Neurospine*. 2022 Sep;19(3):689-702. PMID: 36203295. PMCID: PMC9537855. <https://doi.org/10.14245/ns.2244616.308>. Epub 2022 Sep 30
  21. Mitchell T, **Williamson T**. Caring for Ourselves, Supporting Anti-Racist Programming in Medicine. *Am J Lifestyle Med*. 2023;17(6):799-802. PMID: 38511121. PMCID: PMC10948921. <https://doi.org/10.1177/15598276221131296>. Epub 2022 Oct 1
  22. Hatfield J, Fah M, Girden A, Mills B, Ohnuma T, Haines K, Cobert J, Komisarow J, **Williamson T**, Bartz R, Vavilala M, Raghunathan K, Tobalske A, Ward J, Krishnamoorthy V. Racial and Ethnic Differences in the Prevalence of Do-Not-Resuscitate Orders among Older Adults with Severe Traumatic Brain Injury. *J Intensive Care Med*. 2022 Dec;37(12):1641-1647. PMID: 35603747. <https://doi.org/10.1177/08850666221103780>. Epub 2022 May 22
  23. Mitchell T, Abdelgadir J, Oshotse C, Ubel PA, **Williamson T**. Definitely, Maybe: Helping Patients Make Decisions about Surgery When Prognosis Is Uncertain. *J Clin Ethics*. 2023;34(2):169-174. PMID: 37229741. <https://doi.org/10.1086/724770>
  24. Duvall JB, Massaad E, Siraj L, Kiapour A, Connolly I, Hadzipasic M, Elsamadicy AA, **Williamson T**, Shankar GM, Schoenfeld AJ, Fourman MS, Shin JH. Assessment of Spinal Metastases Surgery Risk Stratification Tools in Breast Cancer by Molecular Subtype. *Neurosurgery*. 2023 Jan 1;92(1):83-91. PMID: 36305664. PMCID: PMC10158884. <https://doi.org/10.1227/neu.00000000000002180>. Epub 2022 Oct 28

25. McCray E, Waguia R, de la Garza Ramos R, Price MJ, **Williamson T**, Dalton T, Sciubba DM, Yassari R, Goodwin AN, Fecci P, Johnson MO, Chaichana K, Goodwin CR. Racial disparities in inpatient clinical presentation, treatment, and outcomes in brain metastasis. *Neurooncol Pract*. 2023 Feb;10(1):62-70. PMID: 36659969. PMCID: PMC9837769. <https://doi.org/10.1093/nop/npac061>. Epub 2022 Jul 31
26. Mitchell T, Giusto A, Greene C, Staples B, Haglund M, **Williamson T**. Commentary: Workplace Meaning for Workplace Wellness: One Health System's Early Experience With a Mobile Application. *Neurosurgery*. 2023 Apr 1;92(4):e84-e86. PMID: 36786586. <https://doi.org/10.1227/neu.0000000000002389>. Epub 2023 Feb 14
27. Fourman MS, Siraj L, Duvall J, Ramsey DC, De La Garza Ramos R, Hadzipasic M, Connolly I, **Williamson T**, Shankar GM, Schoenfeld A, Yassari R, Massaad E, Shin JH. Can We Use Artificial Intelligence Cluster Analysis to Identify Patients with Metastatic Breast Cancer to the Spine at Highest Risk of Postoperative Adverse Events?. *World Neurosurg*. 2023 Jun;174:e26-e34. PMID: 36805503. <https://doi.org/10.1016/j.wneu.2023.02.064>. Epub 2023 Feb 18
28. Vedantam A, Ugiliweneza B, **Williamson T**, Guest JD, Harrop JS, Tator CH, Aarabi BA, Fehlings MG, Kurpad SN, Neal CJ. Evolving Profile of Acute Spinal Cord Injury Demographics, Outcomes, and Surgical Treatment in North America: Analysis of a Prospective Multi-Center Dataset of 989 Patients. *J Neurotrauma*. 2023 Sep;40(17-18):1948-1958. PMID: 36448585. <https://doi.org/10.1089/neu.2022.0410>
29. Kelly-Hedrik M, Abd-El-Barr MM, Aarabi B, Curt A, Howley SP, Harrop JS, Kirshblum S, Neal CJ, Noonan V, Park C, Ugiliweneza B, Tator C, Toups EG, Fehlings MG, **Williamson T**, Guest JD. Importance of Prospective Registries and Clinical Research Networks in the Evolution of Spinal Cord Injury Care. *J Neurotrauma*. 2023 Sep;40(17-18):1834-1848. PMID: 36576020. <https://doi.org/10.1089/neu.2022.0450>
30. Kelly-Hedrick M, Ugiliweneza B, Toups EG, Jimsheleishvili G, Kurpad SN, Aarabi B, Harrop JS, Foster N, Goodwin RC, Shaffrey CI, Fehlings MG, Tator CH, Guest JD, Neal CJ, Abd-El-Barr MM, **Williamson T**. Interhospital Transfer delays care for spinal cord injury patients: A Report from the North American Clinical Trials Network for Spinal Cord Injury. *J Neurotrauma*. 2023 Sep;40(17-18):1928-1937. PMID: 37014079. <https://doi.org/10.1089/neu.2022.0408>
31. Guest JD, Kelly-Hedrick M, **Williamson T**, Park C, Ali DM, Sivaganesan A, Neal CJ, Tator CH, Fehlings MG. Development of a Systems Medicine Approach to Spinal Cord Injury. *J Neurotrauma*. 2023 Sep;40(17-18):1849-1877. PMID: 37335060. PMCID: PMC10460697. <https://doi.org/10.1089/neu.2023.0024>. Epub 2023 Aug 2
32. Rigney GH, Massaad E, Kiapour A, Razak SS, Duvall JB, Burrows A, Khalid SI, De La Garza Ramos R, Tobert DG, **Williamson T**, Shankar GM, Schoenfeld AJ, Shin JH. Implication of nutritional status for adverse outcomes after surgery for metastatic spine tumors. *J Neurosurg Spine*. 2023 Oct 1;39(4):557-567. PMID: 37439458. <https://doi.org/10.3171/2023.5.SPINE2367>. Epub 2023 Jul 7

33. Owolo E, Seas A, Bishop B, Sperber J, Petitt Z, Arango A, Yoo S, Shah S, Duvall JB, Johnson E, Abu-Bonsrah N, Kaplan S, Eden S, Ashley WW, **Williamson T**, Goodwin CR. Scoping review on the state of racial disparities literature in the treatment of neurosurgical disease: a call for action. *Neurosurg Focus*. 2023 Nov;55(5):E3. PMID: 37913535. <https://doi.org/10.3171/2023.8.FOCUS23466>
34. Paneitz DC, Jefferson HL, Hanto DW, McKneally MF, **Williamson TL**, Mayer JE Jr, Angelos P, Brown DE, Kopar PC. Surgical Ethics Training: Educational and Professional Opportunities. *Ann Surg*. 2023 Dec 1;278(6):e1161-e1163. PMID: 37622334. <https://doi.org/10.1097/SLA.0000000000006081>. Epub 2023 Aug 25
35. Ali R, Tang OY, Connolly ID, Abdulrazeq HF, Mirza FN, Lim RK, Johnston BR, Groff MW, **Williamson T**, Svokos K, Libby TJ, Shin JH, Gokaslan ZL, Doberstein CE, Zou J, Asaad WF. Demographic Representation in 3 Leading Artificial Intelligence Text-to-Image Generators. *JAMA Surg*. 2024 Jan 1;159(1):87-95. PMID: 37966807. PMCID: PMC10782243. <https://doi.org/10.1001/jamasurg.2023.5695>
36. Wadhwa H, Leung C, Sklar M, Malacon K, Rangwalla T, **Williamson T**, Castillo TN, Amanatullah DF, Zygorakis CC. Costs and Outcomes of Total Joint Arthroplasty in Medicare Beneficiaries Are Not Meaningfully Associated with Industry Payments. *J Bone Joint Surg Am*. 2024 Feb 21;106(4):337-345. PMID: 37992189. <https://doi.org/10.2106/JBJS.23.00768>. Epub 2023 Nov 22
37. Johnson KA, Dosenbach NUF, Gordon EM, Welle CG, Wilkins KB, Bronte-Stewart HM, Voon V, Morishita T, Sakai Y, Merner AR, Lázaro-Muñoz G, **Williamson T**, Horn A, Gilron R, O'Keeffe J, Gittis AH, Neumann WJ, Little S, Provenza NR, Sheth SA, Fasano A, Holt-Becker AB, Raike RS, Moore L, Pathak YJ, Greene D, Marceglia S, Krinke L, Tan H, Bergman H, Pötter-Nerger M, Sun B, Cabrera LY, McIntyre CC, Harel N, Mayberg HS, Krystal AD, Pouratian N, Starr PA, Foote KD, Okun MS, Wong JK. Proceedings of the 11th Annual Deep Brain Stimulation Think Tank: pushing the forefront of neuromodulation with functional network mapping, biomarkers for adaptive DBS, bioethical dilemmas, AI-guided neuromodulation, and translational advancements. *Front Hum Neurosci*. 2024;18:1320806. PMID: 38450221. PMCID: PMC10915873. <https://doi.org/10.3389/fnhum.2024.1320806>. Epub 2024 Feb 21
38. Khalid SI, Massaad E, Kiapour A, Bridge CP, Rigney G, Burrows A, Shim J, De la Garza Ramos R, Tobert DG, Schoenfeld AJ, **Williamson T**, Shankar GM, Shin JH. Machine learning-based detection of sarcopenic obesity and association with adverse outcomes in patients undergoing surgical treatment for spinal metastases. *J Neurosurg Spine*. 2024 Mar 1;40(3):291-300. PMID: 38039533. <https://doi.org/10.3171/2023.9.SPINE23864>. Epub 2023 Dec 1
39. Venkatraman V, Futch BG, Bartlett A, Yang LZ, Lee HJ, Shofty B, Parente BA, Lad SP, **Williamson TL**, Rahimpour S. Disparities in Access to Deep Brain Stimulation and Responsive Neurostimulation Approaches to Drug-Resistant Epilepsy. *Neuromodulation*. 2024 Jun;27(4):792-799. PMID: 38159098. PMCID: PMC11193492. <https://doi.org/10.1016/j.neurom.2023.11.007>. Epub 2023 Dec 28



40. Wu JY, Tang M, Touponse G, Theologitis M, **Williamson T**, Zygourakis CC. Socioeconomic disparities in lumbar fusion rates were exacerbated during the COVID-19 pandemic. *N Am Spine Soc J*. 2024 Jun;18:100321. PMID: 38741936. PMCID: PMC11089397. <https://doi.org/10.1016/j.xnsj.2024.100321>. Epub 2024 Apr 6
41. Furrer RA, Merner AR, Stevens I, Zuk P, **Williamson T**, Shen FX, Lázaro-Muñoz G. Public Perceptions of Neurotechnologies Used to Target Mood, Memory, and Motor Symptoms. *medRxiv*. 2024 Jun 10;2024.06.09.24308176. PMID: 38946963. PMCID: PMC11213062. <https://doi.org/10.1101/2024.06.09.24308176>. Epub 2024 Jun 10
42. Venkatraman V, Futch BG, Bode Padron KJ, Yang LZ, Lee HJ, Seas A, Parente B, Shofty B, Lad SP, **Williamson TL**, Rahimpour S. Disparities in the treatment of movement disorders using deep brain stimulation. *J Neurosurg*. 2024 Jul 1;141(1):241-251. PMID: 38306639. PMCID: PMC10898494. <https://doi.org/10.3171/2023.11.JNS23882>. Epub 2024 Feb 2
43. Malacon K, Touponse G, Yoseph E, Li G, Wei PJ, Kicielinski K, Massie L, **Williamson T**, Han S, Zygourakis C. Gender Differences in Electronic Health Record Usage Among Surgeons. *JAMA Netw Open*. 2024 Jul 1;7(7):e2421717. PMID: 39042410. PMCID: PMC11267410. <https://doi.org/10.1001/jamanetworkopen.2024.21717>. Epub 2024 Jul 1
44. Charles AJ, **Williamson T**, Lipa SA. Advancing equity in spine surgery: unraveling the impact of affirmative action reversal. *Spine J*. 2024 Aug 21;S1529-9430(24)00940. PMID: 39154942. <https://doi.org/10.1016/j.spinee.2024.08.018>. Epub 2024 Aug 21
45. Lin-Siegler X, Lovett BJ, Wang K, Hadis S, DeGaetano AC, **Williamson T**, Duerr E, Levy EI. Under Pressure: Emotional Reactions to Stress of Neurosurgeons and Neurosurgical Trainees. *World Neurosurg*. 2024 Sep;189:e184-e190. PMID: 38857865. <https://doi.org/10.1016/j.wneu.2024.06.016>. Epub 2024 Jun 8
46. Futch BG, Seas A, Ononogbu-Uche F, Khedr S, Kreinbrook J, Shaffrey CI, **Williamson T**, Guest JD, Fehlings MG, Abd-El-Barr MM, Foster NA. Shifting Trends in the Epidemiology of Cervical Spine Injuries: An Analysis of 11,822 Patients from the National Electronic Injury Surveillance System over Two Decades. *J Neurotrauma*. 2024 Sep;41(17-18):2158-2167. PMID: 39041612. <https://doi.org/10.1089/neu.2024.0194>. Epub 2024 Aug 2
47. Mirza FN, Wu E, Abdulrazeq HF, Connolly ID, Tang OY, Zogg CK, **Williamson T**, Galamaga PF, Roye GD, Sampath P, Telfeian AE, Qureshi AA, Groff MW, Shin JH, Asaad WF, Libby TJ, Gokaslan ZL, Kohane IS, Zou J, Ali R. The literacy barrier in clinical trial consents: a retrospective analysis. *EClinicalMedicine*. 2024 Sep;75:102814. PMID: 39763593. PMCID: PMC11701435. <https://doi.org/10.1016/j.eclinm.2024.102814>. Epub 2024 Sep 13
48. Massaad E, Mitchell TS, Duerr E, Kiapour A, Cha TD, Coumans JC, Groff MW, Hershman SH, Kang JD, Lipa SA, Small L, Tobert DG, Schoenfeld AJ, Shankar GM, Zaidi HA, Shin JH, **Williamson T**. Disparities in Surgical Intervention and Health-Related Quality of Life Among Racial/Ethnic Groups With Degenerative Lumbar

Spondylolisthesis. *Neurosurgery*. 2024 Sep 1;95(3):576-583. PMID: 39145650.  
<https://doi.org/10.1227/neu.0000000000002925>. Epub 2024 Apr 18

49. Sanders WR, Barber JK, Temkin NR, Foreman B, Giacino JT, **Williamson T**, Edlow BL, Manley GT, Bodien YG. Recovery Potential in Patients Who Died After Withdrawal of Life-Sustaining Treatment: A TRACK-TBI Propensity Score Analysis. *J Neurotrauma*. 2024 Oct;41(19-20):2336-2348. PMID: 38739032. PMCID: PMC11564834. <https://doi.org/10.1089/neu.2024.0014>. Epub 2024 May 13
50. Robles MC, Rodriguez E, **Williamson T**. Role of Terminology for Linguistic Preferences in Clinical and Public Health Communication. *Am J Bioeth*. 2024 Nov;24(11):69-72. PMID: 39401713. <https://doi.org/10.1080/15265161.2024.2399839>. Epub 2024 Oct 14
51. Al-Naseem AO, Mehkri Y, Chakravarti S, Johnson E, Kelly-Hedrick M, Kuo C, Erickson M, Than KD, Rocos B, Bhowmick D, Shaffrey CI, Foster N, Baaj A, Dahdaleh N, Goodwin CR, **Williamson TL**, Lu Y, Abd-El-Barr MM. Comparison of intraoperative and postoperative outcomes between open, minimally-invasive, and percutaneous approach to traumatic thoracolumbar spine fractures without neurological injury: A systematic review and meta-analysis. *N Am Spine Soc J*. 2024 Dec;20:100547. PMID: 39329024. PMCID: PMC11426394. <https://doi.org/10.1016/j.xnsj.2024.100547>. Epub 2024 Aug 14
52. Sanusi O, Kalu RU, Obayashi J, Beird N, **Williamson T**, Geltzeiler M, Nahed BV, Rodriguez MI. Parental Leave in Neurosurgery: A US Cross-Sectional Study. *Neurosurg Pract*. 2024 Dec;5(4):e00116. PMID: 39959550. PMCID: PMC11809987. <https://doi.org/10.1227/neuprac.0000000000000116>. Epub 2024 Sep 26
53. Mackel CE, Saway BF, Alterman RL, Spiotta AM, Sweet JA, Davis RB, **Williamson T**, Stippler M. Meaningful work, organizational commitment and administrative burden among attending neurosurgeons. *Neurochirurgie*. 2025 Feb 13;71(2):101645. PMID: 39951908. <https://doi.org/10.1016/j.neuchi.2025.101645>. Epub 2025 Feb 13
54. Ali R, Abdulrazeq HF, Patil A, Cheatham M, Connolly ID, Tang OY, Doberstein CA, Riccelli T, Huang KT, Shankar GM, **Williamson T**, Shin JH, Carter B, Torabi R, Lee CK, Cielo D, Telfeian AE, Gokaslan ZL, Cohen-Gadol AA, Zou J, Asaad WF. AtlasGPT: a language model grounded in neurosurgery with domain-specific data and document retrieval. *J Neurosurg*. 2025 Apr 18;1-8. PMID: 40250057. <https://doi.org/10.3171/2024.12.JNS241607>. Epub 2025 Apr 18

#### Other peer-reviewed scholarship

1. **Williamson T**, Painter B, Howell EP, Goodwin CR. Top Ten Tips Palliative Care Clinicians Should Know About Spinal Tumors. *J Palliat Med*. 2019 Jan;22(1):84-89. PMID: 30570435. PMCID: PMC6939587. <https://doi.org/10.1089/jpm.2018.0608>. Epub 2018 Dec 20

2. **Williamson T**, Abd-El-Barr M. Book Review: Surgical Care of the Painful Degenerative Lumbar Spine: Evaluation, Decision-Making, Technique. World Neurosurgery, August 2019.
3. **Williamson T**. The Goals of Care - Is There a (Black) Doctor in the House?. N Engl J Med. 2020 Aug 6;383(6):e43. PMID: 32692508.  
<https://doi.org/10.1056/NEJMp2024338>. Epub 2020 Jul 21
4. **Williamson T**, Goodwin CR, Ubel PA. Minority Tax Reform - Avoiding Overtaxing Minorities When We Need Them Most. N Engl J Med. 2021 May 20;384(20):1877-1879. PMID: 34014047. <https://doi.org/10.1056/NEJMp2100179>. Epub 2021 May 15
5. **Williamson T**. Preface to Clinical Neurosurgery Volume 71, Proceedings of the Congress of Neurological Surgeons 2024 Annual Meeting. Neurosurgery. 2025 Apr 1;71(Supplement\_1):N1. PMID: 40084856.  
<https://doi.org/10.1227/neu.00000000000003364>

#### **Non-peer reviewed scholarship in print or other media:**

##### **Books/textbooks for the medical or scientific community**

1. **Williamson T**, Massie L, Karikari IK, Shaffrey CI, Abd-El-Barr M. Differential Diagnosis of Spinal Disease. 8th edition. Elsevier. Chapter 11.
2. Conolly I, Hadzipazic M, Shin J, **Williamson T**. Chapter on Bracing. Handbook of Spine Surgery. Medone, Thieme 2023.
3. Conolly I, Hadzipazic M, Williamson. T. Biomechanics of Spinal Stabilization, Thieme, 3<sup>rd</sup> ed In Press.

##### **Letters to the Editor**

1. **Williamson T**. Preface to Clinical Neurosurgery Volume 69, Proceedings of the Congress of Neurological Surgeons 2022 Annual Meeting. Neurosurgery. 2023 Apr 1;69(Suppl 1):N1. PMID: 36924477. <https://doi.org/10.1227/neu.00000000000002379>

#### **Professional educational materials or reports, in print or other media:**

1. **Williamson T**. Up Next: Firsts for black women in neurosurgery. Doximity Op-(m)ed, Jan 2018.
2. **Williamson T**. Showing up after a patient dies: physicians' roles in family grief and memories, Doximity Op-(m)ed, March 2018.
3. **Williamson T**. Brain in a bucket: what it means for neurosurgeons. Doximity Op-(m)ed, May 2018.
4. **Williamson T**. The patient I liked the least needed me the most. Doximity Op-(m)ed, May 2018.

5. **Williamson T.** How Industry is helping us beat COVID-19. Doximity Op-(m)ed, May 2020.
6. McClelland S, Guisto A, **Williamson T.** The healthcare exodus is an untreated trauma crisis. Slate.com. March 2022.

**Local/Unpublished Clinical Guidelines and Reports:**

1. MGH NeuroICU Disorders of Consciousness Guideline. Access at <https://hospitalpolicies.ellucid.com/documents/view/15321/active>. Published

**Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings:**

1. **Williamson T**, Muh C, Ubel P. Physician Communication Strategies in Emergent Brain Trauma. Journal of Neurotrauma Online, Aug 2017.  
Nominated for AANS/CNS Neurotrauma Resident Award
2. Dombrowsk K, **Williamson T**, Milne J. Neurologic Monitoring after a Fall. Neurocritical Care Society Distinguished Poster, Boca Ratone, Sept 2018.  
Received meeting Distinguished Poster Award
3. **Williamson TL.** Augmented Reality in Spine Surgery. AANS. Philadelphia, PA April 2022.
4. White AJ, Kelly-Hedrick M, Miranda SP, Abdelbarr MM, Lázaro-Muñoz G, Pouratian N, Shen F, Nahed BV, **Williamson T.** Bioethics and Neurosurgery: An Overview of Existing and Emerging Topics for the Practicing Neurosurgeon. World Neurosurg. 2024 Oct;190:181-186. PMID: 39004179. <https://doi.org/10.1016/j.wneu.2024.07.051>. Epub 2024 Jul 14

\* Co-author, \*\* Mentee