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Global neurosurgery

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To my global medical colleagues, who are striving to overcome obstacles to deliver safe and effective care to your patients in every corner of the world, I thank you. You are my inspiration to continue this work.

prof.mr.dr. Marike Broekman – I cherish the serendipity of connecting at the Global Neurotrauma Launch in Cambridge, UK in 2017 (with me skipping class to join the conference, and you visiting for a job interview); your passion for ethics and mine for working in low resource settings united in this vision of working together toward a PhD. You are not only an academic and clinical inspiration, but also a role model as an empathetic and kind surgeon, a loving and present mother, and a loyal and treasured friend.

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Dr. Kee Park – Just when I feared that my love for global health and neurosurgery would never meet, you moved to Boston. You have brought together leaders from across the world and united them in a common vision. You bring a light and positive energy to the global neurosurgery movement and inspire us to push forward amidst challenges. I am excited to see where your next chapter takes you in Geneva.

Dr. Brian Nahed – You have been a beacon, from your inspiration while I was a medical student and throughout MGH Neurosurgery residency. You go out of your way to empower me and create opportunities to grow and shine. When challenges arise, you ensure the residents feel seen and heard. Thank you for being an amazing program director, mentor, and role model in every possible way.

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To my parents – David and Gwendolyn Robertson, you have shown me nothing but unconditional love. Thank you for not holding me back when I began to venture abroad. I know it took courage as I began medical missions in Latin America, studied abroad in South Africa, flew to Rwanda during med school breaks, and moved to the Philippines. Thank you for trusting and allowing me to find myself through these life experiences. There will never be a place like home on the farm in Shelby, and I am eternally grateful that you instilled in me the compass to navigate the world while bringing more light to it. I love you.

Dr. Daisy Ji – The Christina Yang to my Meredith Grey. You have been my ride-or-die since day one of medical school. I cannot imagine the past 10 years without you to turn to for our rehashing of exciting cases, relationship drama, and life ambitions. We have countless memories together – from post-call sailing on the Charles and ukulele nights, to hangs with Simba, and even doing a shunt together. Thank you for being my surgery sister, and my best friend.

Additional thanks and love: Lindsay, Sarah, Angela, Schyler, Geoff, Section D, and my Duke family.

REPORT OF SCHOLARSHIP

Peer Reviewed Publications, Research Investigations

1. Menna G, Koliass A, Esene IN, Barthélemy EJ, Hoz S, Laeke T, Veiga Silva AC, Longo-Calderón GM, Baticulon RE, Zabala JP, Hassani FD, El Abbadi N, Khan MM, **Robertson FC**, Thango N, Cheresem B, Ogando-Rivas E, Roumy LG, Karekezi C, Alamri A, Spena G, Cenzato M, Servadei F, Giussani CG, Nicolosi F. Reducing the Gap in Neurosurgical Education in LMICs: A Report of a Non-Profit Educational Program. *World Neurosurg.* 2024 Feb;182:e792-e797. doi: 10.1016/j.wneu.2023.12.040. Epub 2023 Dec 13. PMID: 38101536
2. Chiurillo I, Sha RM, **Robertson FC**, Liu J, Li J, Le Mau H, et al. High-Accuracy Neuro-Navigation with Computer Vision for Frameless Registration and Real-Time Tracking. *Bioengineering.* 2023;10(12):1401.
3. Dolmans RGF, Nahed BV, **Robertson FC**, Peul WC, Rosenthal ES, Broekman MLD. Practice-Pattern Variation in Sedation of Neurotrauma Patients in the Intensive Care Unit: An International Survey. *J Intensive Care Med.* 2023 Dec;38(12):1143-1150. doi: 10.1177/08850666231186563. Epub 2023 Jul 7
4. Vooijs M, **Robertson FC**, Rosseau G, Tasiou A, Rodríguez-Hernández A, Mihaylova SI, et al. Ethical challenges of travel for experimental therapy in malignant brain tumor patients. *Journal of Neurosurgery.* 2023;1(aop):1-5.
5. **Robertson FC**, Stapleton CJ, Coumans J-VC, Nicolosi F, Vooijs M, Blitz S, et al. Applying objective metrics to neurosurgical skill development with simulation and spaced repetition learning. *Journal of Neurosurgery.* 2023;1(aop):1-9.
6. Poon MT, Piper RJ, Thango N, Fountain DM, Marcus HJ, Lippa L, et al. **(Robertson FC)** Variation in postoperative outcomes of patients with intracranial tumors: insights from a prospective international cohort study during the COVID-19 pandemic. *Neuro-oncology.* 2023.
7. Javed S, Perez-Chadid D, Yaqoob E, Shlobin NA, Ham EI, Veerappan VR, et al. **(Robertson FC)** Needs, Roles and Challenges of Young Asian Neurosurgeons. *World neurosurgery.* 2023.
8. Elkaim LM, Levett JJ, Niazi F, Alvi MA, Shlobin NA, Linzey JR, et al. **(Robertson FC)** Cervical Myelopathy and Social Media: Mixed Methods Analysis. *Journal of Medical Internet Research.* 2023;25:e42097.
9. Dolmans RG, **Robertson FC**, Eijkholt M, van Vliet P, Broekman ML. Palliative care in severe neurotrauma patients in the intensive care unit. *Neurocritical Care.* 2023;1-8.
10. Dolmans RG, Nahed BV, **Robertson FC**, Peul WC, Rosenthal ES, Broekman ML. Practice-Pattern Variation in Sedation of Neurotrauma Patients in the Intensive Care Unit: An International Survey. *Journal of Intensive Care Medicine.* 2023:08850666231186563.
11. Sellier A, Russo D, **Robertson F**, Rodriguez-Arribas M-A, Charissoux M, Azria D, et al. A choroid plexus metastasis of a prostatic adenocarcinoma mimicking a choroid plexus carcinoma: a case report. *Neurochirurgie.* 2022;68(1):113-6.
12. **Robertson FC**, Wu KC, Sha RM, Amich JM, Lal A, Lee BH, et al. Stereotactic Neurosurgical Robotics With Real-Time Patient Tracking: A Cadaveric Study. *Operative Neurosurgery.* 2022;22(6):425-32.
13. **Robertson FC**, Sha R, Amich J, Lee B, Lal A, Calvachi P, et al. 181 Frameless Neuronavigation With Computer Vision and Real Time Tracking for Bedside External Ventricular Drain Placement: A Cadaveric Study. *Neurosurgery.* 2022;68(Supplement_1):54.
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17. **COVID Collaborative**, Adamina M, Ademuyiwa A, Adisa A, Bhangu AA, Bravo AM, et al. The impact of surgical delay on resectability of colorectal cancer: An international prospective cohort study. *Colorectal Disease.* 2022;24(6):708-26.
18. Clark D, Joannides A, Adeleye AO, Bajamal AH, Bashford T, Biluts H, et al. **(Robertson FC)** Casemix, management, and mortality of patients receiving emergency neurosurgery for traumatic brain injury in the Global Neurotrauma Outcomes Study: a prospective observational cohort study. *The Lancet Neurology.* 2022;21(5):438-49.
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21. **Robertson FC**, Raahil MS, Amich JM, Essayed WI, Lal A, Lee BH, et al. Frameless neuronavigation with computer vision and real-time tracking for bedside external ventricular drain placement: a cadaveric study. *Journal of Neurosurgery.* 2021;136(5):1475-84.
22. **Robertson FC**, Linzey JR, Alotaibi NM, Regenhardt RW, Harker P, Vranic J, et al. # RadialFirst and# RadialForNeuro: A descriptive analysis of Twitter conversations regarding transradial access. *The Neuroradiology Journal.* 2021;34(5):494-500.

23. Palmisciano P, El Ahmadieh TY, Haider AS, Bin Alamer O, **Robertson FC**, Plitt AR, et al. Thalamic gliomas in adults: a systematic review of clinical characteristics, treatment strategies, and survival outcomes. *Journal of neuro-oncology*. 2021;155:215-24.
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26. Kanmounye US, **Robertson FC**, Thango NS, Doe AN, Bankole NDA, Ginette PA, et al. Needs of young African neurosurgeons and residents: a cross-sectional study. *Frontiers in surgery*. 2021;8:647279.
27. Kanmounye US, **Robertson FC**, Sebopelo LA, Senyuy WP, Sichimba D, Keke C, et al. Bibliometric analysis of the 200 most cited articles in World Neurosurgery. *World Neurosurgery*. 2021;149:226-31. e3.
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29. Glasbey JC, Nepogodiev D, Simoes JF, Omar O, Li E, Venn ML, et al. (**Robertson FC**) Elective cancer surgery in COVID-19-free surgical pathways during the SARS-CoV-2 pandemic: an international, multicenter, comparative cohort study. *Journal of Clinical Oncology*. 2021;39(1):66.
30. Glasbey J, Ademuyiwa A, Adisa A, AlAmeer E, Arnaud AP, Ayasra F, et al. (**Robertson FC**) Effect of COVID-19 pandemic lockdowns on planned cancer surgery for 15 tumour types in 61 countries: an international, prospective, cohort study. *The Lancet Oncology*. 2021;22(11):1507-17.
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32. **COVID Collaborative**. 1013 Preoperative Nasopharyngeal Swab Testing and Postoperative Pulmonary Complications in Patients Undergoing Elective Surgery During The SARS-Cov-2 Pandemic. *British Journal of Surgery*. 2021;108(Supplement_2):znab135. 039.
33. Bin Alamer O, Haider AS, Haider M, Sagoo NS, **Robertson FC**, Arrey EN, et al. Primary and radiation induced skull base osteosarcoma: a systematic review of clinical features and treatment outcomes. *Journal of neuro-oncology*. 2021;153(2):183-202.
34. Death following pulmonary complications of surgery before and during the SARS-CoV-2 pandemic. (**COVID Collaborative includes Robertson FC**) *British Journal of Surgery*. 2021;108(12):1448-64.
35. Takoukam R, Kanmounye US, **Robertson FC**, Zimmerman K, Nguembu S, Lartigue JW, et al. Prehospital conditions and outcomes after craniotomy for traumatic brain injury performed within 72 hours in Central Cameroon: a cross-sectional study. *World Neurosurgery*. 2020;142:e238-e44.
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37. **Robertson FC**, Gnanakumar S, Karekezi C, Vaughan K, Garcia RM, Bourquin BAEE, et al. The World Federation of Neurosurgical Societies Young Neurosurgeons Survey (Part II): barriers to professional development and service delivery in neurosurgery. *World neurosurgery: X*. 2020;8:100084.
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39. **Robertson FC**, Esene IN, Koliass AG, Kamalo P, Fiegggen G, Gormley WB, et al. Task-shifting and task-sharing in neurosurgery: an international survey of current practices in low-and middle-income countries. *World neurosurgery: X*. 2020;6:100059.
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41. Ota HC, Smith BG, Alamri A, **Robertson FC**, Marcus H, Hirst A, et al. The IDEAL framework in neurosurgery: a bibliometric analysis. *Acta neurochirurgica*. 2020;162:2939-47.
42. Linzey JR, **Robertson F**, Haider AS, Graffeo CS, Wang JZ, Shasby G, et al. Online impact and presence of a specialized social media team for the journal of neurosurgery: descriptive analysis. *Journal of medical Internet research*. 2020;22(5):e17741.
43. Ji YD, **Robertson FC**, Patel NA, Peacock ZS, Resnick CM. Assessment of risk factors for suicide among US health care professionals. *JAMA surgery*. 2020;155(8):713-21.
44. Gnanakumar S, Bourquin BAEE, **Robertson FC**, Solla DJF, Karekezi C, Vaughan K, et al. The world federation of neurosurgical Societies young neurosurgeons survey (Part I): demographics, resources, and education. *World neurosurgery: X*. 2020;8:100083.
45. Barr C, Lasso A, Asselin M, Pieper S, **Robertson FC**, Gormley WB, et al., editors. Towards portable image guidance and automatic patient registration using an RGB-D camera and video projector. *Medical Imaging 2020: Image-Guided Procedures, Robotic Interventions, and Modeling*; 2020: SPIE.
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51. Liu J, Gormley N, Dasenbrock HH, Aglio LS, Smith TR, Gormley WB, **Robertson FC**. Cost-benefit analysis of transitional care in neurosurgery. *Neurosurgery*. 2019;85(5):672-9.
52. Broekman ML. *Ethics of innovation in neurosurgery*. Springer International Publishing; 2019.
53. **Robertson FC**, Lepard JR, Mekary RA, Davis MC, Yunusa I, Gormley WB, et al. Epidemiology of central nervous system infectious diseases: a meta-analysis and systematic review with implications for neurosurgeons worldwide. *Journal of neurosurgery*. 2018;130(4):1107-26.
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62. Fehnel CR, Gormley WB, Dasenbrock H, Lee Y, **Robertson F**, Ellis AG, et al. Advanced age and post-acute care outcomes after subarachnoid hemorrhage. *Journal of the American Heart Association*. 2017;6(10):e006696.
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Letters to the Editor / Commentary

1. **Robertson FC**, Nahed BV. Reply: Letter to the Editor. Tracking neurosurgery resident performance on simulation-based training tasks. *Journal of Neurosurgery*. May 2023. PMID: 37243557 DOI: 10.3171/2023.3.JNS23610
2. **Robertson FC**, Lippa L, Broekman ML. Task shifting and task sharing for neurosurgeons amidst the COVID-19 pandemic. *Journal of Neurosurgery*. 2020;133(1):5-7

3. **Robertson FC.** Response to the Comment on “Gender Parity in Cardiothoracic Surgery Training: Significant Strides but Miles to Go”. *Annals of Surgery.* 2021;274(6):e849.
4. Ji YD, **Robertson FC**, Patel NA. Universal Suicide Prevention for Health Care Professionals—Reply. *JAMA surgery.* 2021;156(3):291-.
5. Kanmounye US, **Robertson FC**, Sichimba D, Graffeo CS. In Reply to the Letter to the Editor Regarding “Bibliometric analysis of the 200 most cited articles in World Neurosurgery”. *World Neurosurgery.* 2021;149:293-.
6. **Robertson F.** Presence of Histopathological Treatment Effects at Resection of Recurrent Glioblastoma: Incidence and Effect on Outcome COMMENT. OXFORD UNIV PRESS INC JOURNALS DEPT, 2001 Evans Rd, Carry, NC 27513 USA; 2019. p. 800-.

Book Chapters

1. Robertson FC, Park KB, Johnson WD. The Role of Policy in Global Neurosurgery. *Neurosurgery Clinics of North America on Global Neurosurgery.* 2024 Oct;35(4):401-410. doi: 10.1016/j.nec.2024.05.002. Epub 2024 Jul 2. PMID: 39244312.
2. Kalyvas A, Bernstein M, Baticulon RE, Broekman ML, **Robertson FC.** The impact of the COVID-19 pandemic on neurosurgery worldwide. *Neurosurgery and Global Health.* 2022:341-56.
3. **Robertson FC**, Mathiesen T, Broekman ML. Informed Consent for Neurosurgical Innovation. *Ethics of Innovation in Neurosurgery.* 2019:11-25.
4. Hirji, S, **Robertson FC**, Anderson K, and Harskamp R. Chapter 2: Percutaneous versus Surgical Coronary Revascularization in the Current Era and Beyond: Is the Debate Over? *Coronary Artery Disease: Characteristics, Management and Long-Term Outcomes.* Cardiology Research and Clinical Developments. Nova Science Publishers. 2016. ISBN: 978-1-63485-330-9.

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

International

- 2023 **Robertson, FC**, Grand Rounds: Innovation in Neurosurgery & Global Neurosurgery. Department of Neurosurgery. Santa Casa Hospital. Sao Paulo, Brazil. May 16, 2023.
- 2020 **Robertson, FC**, Virtual Lecture: Ethics and Neurosurgery: innovative practice during COVID -19. Task Shifting and Task Sharing in Neurosurgery. Virtually with *Leiden University Medical Center.* Leiden, Netherlands, Sept 25, 2020.
- 2020 Barr C (presenter), Lasso A, Asselin M, Pieper S, **Robertson FC**, Gormley WB, et al., editors. Towards portable image guidance and automatic patient

registration using an RGB-D camera and video projector. *Medical Imaging 2020: Image-Guided Procedures, Robotic Interventions, and Modeling;* Houston, TX, 2020: International Society for Optics and Photonics.

- 2019 **Robertson, FC**, I Esene, A Kolias, T Khan, G Rossuea, WB Gormley, MLD Broekman, KB Park. Global Perspectives on Task-Shifting and Task-Sharing in Neurosurgery. *European Association of Neurosurgical Societies.* Dublin, Ireland. Sept 25 2019
- 2019 **Robertson, FC**, RC Briones, WB Gormley, R Baticulon, KB Park, A Leather, LL Lucena. Task-Shifting and Task-Sharing in Neurosurgery: A Retrospective Cohort Study in the Philippines. *International Conference on Recent Advances in Traumatology.* Peshawar, Pakistan. March 6, 2019 [Postponed in setting of military conflict. Nov 2019].
- Stopa, BM, **FC Robertson**, A Karhade, M Chua, MLD Broekman, JH Schwab, TR Smith, WB Gormley. Predicting Non-Routine Discharge After Elective Spine Surgery: External Validation of Machine Learning Algorithms Using Institutional Data (*Presentation by BM Stopa*). King’s College London International Neurosurgical Conference, London, UK, November 2018. PMID: 30903190
- 2018 **Robertson, FC**, RC Briones, WB Gormley, R Baticulon, KB Park, A Leather, LL Lucena (speaker). Task-Shifting and Task-Sharing in Neurosurgery: A Retrospective Cohort Study in the Philippines. *International Symposium and Workshop on Neurotrauma and Neurointensive Care.* Indonesia. August 12th, 2018.
- 2018 **Robertson, FC.** Why we should ask “Why?” The importance of research in your medical career. Visiting lecturer. *Monthly Interdepartmental Conference, Bicol Medical Center, Naga City, Philippines.* June 2018
- 2017 **Robertson, FC.** What is Global Surgery? Speaker and Panelist for the *Annual National Medical Student Surgery Conference at Kings College London, London, UK.* December 2017.
- 2017 **Robertson, FC**, and WB Gormley. A Transitional Care Program for Elective Neurosurgery. *Grand Rounds for the Division of Neurosurgery and Neurosciences, Royal London Hospital, Bart’s NHS Trust, London, UK.* November 2017.
- 2017 **Robertson, FC,*** HH Dasenbrock,* MA Aziz-Sultan, D Guittieres, IF Dunn, R Du, WB Gormley. Predictors of Decompressive Craniectomy Utilization in Ischemic Stroke in the United States. *European Stroke Conference. Berlin, Germany. May 2017.*

National

- 2023 Introduction to Global Neurosurgery: Building Partnerships and Making an Impact. *NYU Grossman School of Medicine AANS Interest Group.* Webinar. Nov 28, 2023. Online.
- 2023 The Future of Neurosurgical Training, Panelist. *Digital Neurosurgery Annual Meeting.* October 14, 2023. Palo Alto, CA.

- 2023 Introduction as Course Director at the Quality in Neurosurgery Practice Symposium. *Congress of Neurological Surgeons Annual Meeting*. September 9, 2023. Washington, DC.
- 2023 Guidelines Session III: Pituitary Adenoma – Overview of Guidelines Impact. *Congress of Neurological Surgeons Annual Meeting*. September 9, 2023. Washington, DC.
- 2023 Predictors for Andexanet Use for Intracranial Hemorrhage in the US. Hematology and Coagulation for Neurosurgeons Lunch Seminar. *Congress of Neurological Surgeons Annual Meeting*. September 13, 2023. Washington, DC.
- 2023 Social Media and the Journal of Neurosurgery. Annual update at the American Association of Neurological Surgeons Board Meeting. April 21, 2023. Los Angeles, CA.
- 2022 Social Media and the Journal of Neurosurgery. Annual update at the American Association of Neurological Surgeons Board Meeting. April 30, 2022. Philadelphia, PA.
- 2021 **Robertson FC**, Sha R, Amich J, Lee B, Lal A, Calvachi P, et al. Frameless Neuronavigation with Computer Vision and Real Time Tracking for Bedside External Ventricular Drain Placement: A Cadaveric Study. *Congress of Neurological Surgeons*. October 2021. Austin, TX.
- 2021 Social Media and the Journal of Neurosurgery. Annual update at the American Association of Neurological Surgeons Board Meeting. August 26, 2021. Virtual.
- 2020 Cost-Benefit Analysis of Transitional Care in Neurosurgery. Paper of the Year: Socioeconomics. *Congress of Neurological Surgeons Virtual Visiting Professor program*. November 12, 2020. Chicago, IL, USA.
- 2020 Building your Brand. Generating Executive Presence for Personal and Professional Success in Social Media. Virtual Lecture. *Annual Meeting of The American Association of Neurological Surgery*. May 20, 2020.
- Perils, Pitfalls and Pearls for Success: How to Build Your Brand without Jumping the Shark. *Faculty section of Social Media for Neurosurgeons. Congress of Neurological Surgeons*. San Francisco, CA. October 23, 2019
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- 2015 **Robertson, FC**, N Ullrich, P Manley, C Ma, H Al-Sayegh, and L Goumnerova. The impact of tumor resection and intraoperative electrocorticography in patients with tumor-related seizures. *Annual Meeting of the American Association of Neurological Surgery and Congress of Neurological Surgeons Section on Pediatric Neurosurgery*. Seattle, WA. December 2015.
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Regional

- 2023 **Robertson, FC**. Applying objective metrics to neurosurgical skill development with simulation and spaced repetition learning. Mass General Hospital Resident Research Symposium. Boston, MA. June 8, 2023.
- 2020 **Robertson, FC**. Ethics of Big Data and AI in Neurosurgery. Speaker at 2nd Annual Computational Data Neuroscience Symposium, *Brigham & Women's Hospital/Harvard Dept of Neurosurgery & the Harvard School of Public Health Onnela Lab*, Virtually Friday Oct 23, 2020.
- Liu, J, N Gormley, HH Dasenbrock, LS Aglio, TR Smith, WB Gormley, **FC Robertson**. Cost-Effectiveness of a Transitional Care Program for Elective Neurosurgery. *Annual Meeting of the New England Neurosurgical Society*. Chatham, MA. June 2017.
- 2017 **Robertson, FC**. Opening Address: The Journey to the Top. *Association of Women Surgeons: New England Regional Exchange*. Yale Medical School. New Haven, CT. April 2017.
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CURRICULUM VITAE

Dr. Faith Robertson grew up on a small farm in rural Ohio. Her mother's battle with breast cancer when she was a teenager inspired her pursuit of a career in medicine. Faith was valedictorian of her high school class and obtained her Bachelor of Science in Biology from Duke University, graduating with High Distinction for her thesis on breast cancer metabolism. After college, Faith completed a one-year fellowship in Tumor Immunology at the National Cancer Institute. She followed her passion for surgery and oncology to Boston, and completed her M.D. from Harvard Medical School, alongside an M.Sc. in Global

Health and Global Surgery from King's College London. Seeing the importance of organizational management and financial resources in global health development, Faith also completed her M.B.A. at Harvard Business School. Dr. Robertson is currently a senior neurosurgery resident at Massachusetts General Hospital, a Harvard Medical School teaching hospital. Recent awards have included National Quality and Guidelines Scholar (2022), Neurosurgery Consultant of the Year (2022) Resident Research Excellence Award (2023), and Medical Education Research Award (2024). She plans to complete her residency training in 2026 and pursue a career in academic neurosurgery, with continued research and work in healthcare innovation and global neurosurgery.