

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

Christopher Brandon Oakley, M.D.

June, 2025

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

2012-present Active Medical Staff, Department of Neurology, The Johns Hopkins Hospital
2012-present Courtesy Staff, Department of Neurology, The Johns Hopkins Bayview Medical Center
2012-present Director, The Johns Hopkins Pediatric Headache Center
2016-present Director, Headache Medicine Fellowship, The Johns Hopkins Bayview Medical Center
2018-present Colleges Advisory Program, Nathans College
2020-present Co-Director, The Johns Hopkins Adult Headache Center
2024-present Associate Professor of Nursing, joint appointment, The Johns Hopkins University SON
2024-present Associate Professor of Neurology, The Johns Hopkins University SOM

Personal Data

The Johns Hopkins Hospital
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Education and Training

Undergraduate
2001 B.S., Biochemistry, University of Virginia, Charlottesville, VA
Doctoral/graduate
2005 M.D., Eastern Virginia Medical School, Norfolk, VA
Postdoctoral
2005-2006 Intern, Pediatrics, Children's Hospital of the Kings' Daughters, Norfolk, VA
2006-2008 Resident, Pediatrics, Children's Hospital of the Kings' Daughters, Norfolk, VA
2009-2012 Resident, Child Neurology, The Johns Hopkins Hospital, Baltimore, MD

Professional Experience

2008-2009 Instructor, Department of Pediatrics, Eastern Virginia Medical School, Norfolk, VA
2012-2019 Staff Physician, Department of Pediatrics, Anne Arundel Medical Center
2012-2020 Director, Pediatric Neurology Advanced Clerkship and Electives, The Johns Hopkins University SOM
2012-2024 Assistant Professor of Neurology, The Johns Hopkins University SOM
2012-present Active Medical Staff, Department of Neurology, The Johns Hopkins Hospital
2012-present Director, The Johns Hopkins Pediatric Headache Center
2012-present Active Medical Staff, Department of Neurology, The Johns Hopkins Bayview Medical Center
2015-2016 Assistant Director, Neurology Clerkship, The Johns Hopkins University SOM
2016-2019 Associate Director, Neurology Clerkship, The Johns Hopkins University SOM
2016-2020 Director, Neurology Advanced Clerkship and Electives, The Johns Hopkins University SOM
2016-present Director, Headache Medicine Fellowship, The Johns Hopkins Bayview Medical Center
2017-2024 Assistant Professor of Nursing, The Johns Hopkins University SON
2018-present Colleges Advisory Program, Nathans College
2019-2020 Co-Director, Neurology Clerkship, The Johns Hopkins University SOM
2020-present Co-Director, The Johns Hopkins Adult Headache Center
2024-present Associate Professor of Nursing, joint appointment, The Johns Hopkins University SON
2024-present Associate Professor of Neurology, The Johns Hopkins University SOM

PUBLICATIONS

Original Research [OR]

1. Skora CE, Worden LT, **Oakley CB**. Comprehensive Migraine Initiative in the Pediatric Emergency Department Improves Treatment Outcomes. *J Child Neurol*. 2020 Mar; 35(3):235-241.
2. Cruz TE, Riddell R, Gamaldo CE, Strowd RE, **Oakley C**, Salas RM. The impact of student absences on grade outcome in a neurology clerkship setting. *AMEE MedEDPublish*. 2019 July.
3. **Oakley C**, Mahone EM, Morris-Berry C, Kline T, Singer HS. Primary complex motor stereotypies in older children and adolescents: clinical features and longitudinal follow-up. *Pediatr Neurol*. 2015; 52:398-403.

Review Articles [RA]

1. VanderPluym JH, Victorio MCC, **Oakley CB**, Rastogi RG, Orr SL. Beyond the Guidelines: A Narrative Review of Treatments on the Horizon for Migraine in Children and Adolescents. *Neurology*. 2023 Oct 31;101(18):788-797.
2. Graley C, **Oakley CB**. Evidence Supports Prophylactic Treatment for Migraine. *Contemporary Pediatrics*. 2020 May; 37(5):24-29.
3. Szperka CL, VanderPluym JH, **Oakley CB**. Pharmacologic Acute and Preventive Treatment for Migraine in Children and Adolescents. *JAMA Neurol*. 2020; 77(3):388–389.
4. Wig R, **Oakley CB**. Dysautonomia and Headache in the Pediatric Population. *Headache*. 2019 Oct; 59(9):1582-1588.
5. Koch T, **Oakley CB**. Pediatric Migraine: Diagnostic criteria and treatment. *Contemporary Pediatrics*. 2018 June; 35(6):22-30.
6. **Oakley CB**, Kossoff EH. Pediatric Headache and Seizures. *Semin Pediatr Neurol*. 2017 Nov; 24(4):310-319.
7. **Oakley CB**, Scher AI, Recober A, Peterlin BL. Headache and obesity in the pediatric population. *Curr Pain Headache Rep*. 2014; 18:416.
8. **Oakley CB**, Kossoff EH. Migraine and epilepsy in the pediatric population. *Curr Pain Headache Rep*. 2014; 18:402.
9. Brenner M, **Oakley C**, Lewis D: The evaluation of children and adolescents with headache. *Curr Pain Headache Rep*. 2008; 12:361-366.
10. Brenner M, **Oakley C**, Lewis D: Unusual Headache Syndromes in Children. *Curr Pain Headache Rep*. 2007; 11:383–389.

Case Reports [CR]

1. Sun LR, Tekeş A, Golden WC, **Oakley C**. Congenital cyst in a preterm twin infant with maternal comorbidities. *Pediatr Neurol*. 2014; 51:444-7.
2. Bosemani T, Burton VJ, Felling RJ, Leigh R, **Oakley C**, Poretti A, Huisman TA. Pediatric hemiplegic migraine: role of multiple MRI techniques in evaluation of reversible hypoperfusion. *Cephalalgia*. 2014; 34:311-315.

Book Chapters, Monographs [BC]

1. Rao SC, **Oakley C**. The Clinic Visit: From History and Exam to When and How to Evaluate a Pediatric Headache Patient. In: *Pediatric Headache: Evaluation Through Treatment*. **Oakley CB** (ed). 2023.
2. Evan JR, **Oakley C**. Historical Overview of Pediatric Headache. In: *Pediatric Headache: Evaluation Through Treatment*. **Oakley CB** (ed). 2023.
3. **Oakley CB**. Headaches. In: *Neinstein's Adolescent and Young Adult Health Care: A Practical Guide, 7th Edition*. Katzman D, Gordon C, Callahan T, Chung R, Joffe A, Rosenthal S, Trent M (eds). 2022.
4. Ganesh A, **Oakley CB**. Introduction to Headache: Pediatric perspective. In: Millichap JJ, Strowd RE, Pearl P, Mink JW, editors. *Child Neurology: A Case-Based Approach: Cases from the Neurology R&F Section*. Minneapolis: American Academy of Neurology; 2019:1.
5. **Oakley C**. Headache and Migraine. In: *5-Minute Pediatric Consult, 8th Edition*. Cabana, M (ed). 2018.
6. Klein J, **Oakley C**, Neurobiology of Disease: Migraine and Headache in Children. In: *Neurobiology of Disease, 2nd Edition*. Johnston M, (ed). 2016.
7. **Oakley C**. Headache and Migraine. In: *5-Minute Pediatric Consult, 7th Edition*. Hartman, A (ed). 2015.
8. **Oakley C**, Kossoff E: Headache. In: *Clinical Decision Support: Pediatrics*. McMillan JM, Barrett DJ, Boney CM, Jones MD (eds). Decision Support in Medicine, LLC. Wilmington, DE, 2013.

Books, Textbooks [BK]

1. **Oakley CB** (ed). *Pediatric Headache: Evaluation Through Treatment*. Springer. New York. 2023.

Guidelines/Protocols, Consensus Statement, Expert Opinion, Consortium Articles [GL]

1. Szperka CL, VanderPluym J, Orr SL, **Oakley CB**, Qubty W, Patniyot I, Lagman-Bartolome AM, Morris C, Gautreaux J, Victorio MC, Hagler S, Narula S, Candee MS, Cleves-Bayon C, Rao R, Fryer RH, Bicknese AR, Yonker M, Hershey AD, Powers SW, Goadsby PJ, Gelfand AA. Recommendations on the Use of Anti-CGRP Monoclonal Antibodies in Children and Adolescents. *Headache*. 2018 Nov; 58(10):1658-1669.
2. **Oakley C**. Evaluation of Acute Headache in Children. *British Medical Journal*. Point of Care/Best Practices (website - <http://us.bestpractice.bmj.com/best-practice/monograph/825.html>). 2012-2024 (updated yearly).

Editorials [ED]

1. **Oakley CB**. Occipital Headaches and Neuroimaging in Children. *NEJM Journal Watch Neurology*. 2017 Aug.

Other Media [OM] (Videos, Websites, Blogs, Social Media, etc.)

1. Contemporary Pediatrics: 8 Questions for a Thorough History to Diagnose Migraines, <https://www.contemporarypediatrics.com/view/8-questions-thorough-history-diagnose-migraines>. January, 2020.
2. Featured on Johns Hopkins Medicine online seminar/webinar, *Innovations in Pediatric Headache Treatments*. <https://clinicalconnection.hopkinsmedicine.org/videos/innovations-in-pediatric-headache-treatments>. January, 2019.
3. Featured on Univadis online seminar/webinar, *Pediatric Headache*. October-November, 2018.
4. Featured on the U.S. Department of Justice, Federal Bureau of Prisons video, *National Parenting Program*. September, 2018.
5. Featured on Johns Hopkins Medicine online seminar/webinar, *Headaches in Children: What Parents Need to Know*. <http://webcast.jhu.edu/Mediasite/Play/281e056299be4fc3bef8442fe0ccb3661d>. April, 2013.

FUNDING (in chronological order, earliest first by start date under each subcategory)

For each grant or contract please provide the following information in this format:

Date Title
Identification number
Sponsor
Total direct cost
Principal Investigator [if not you]
Your role, your percent effort; Notes

EXTRAMURAL Funding (Show as current, pending, previous under each subcategory and follow format above.)

None

INTRAMURAL Funding (Show as current, pending, previous under each subcategory and follow format above.)

None

CLINICAL ACTIVITIES

Clinical Focus

- Clinical Focus: Pediatric and adult headache medicine, child neurology.
- Founder and director of The Johns Hopkins Pediatric Headache Center since its inception in 2012. Current center is comprised of 1 physician, 2 nurse practitioners, 2 behavioral psychologists (previously included 1 physician assistant, additional behavioral psychologists, and an additional physician) as well as close collaborations with various specialties (neurosurgery, PM&R, concussion, psychiatry, cardiology, genetics), ancillary services (physical therapy, psychology), and The Johns Hopkins Adult Headache Center. The pediatric center has 4 clinical locations as well as a robust telemedicine program with 15-20 clinical sessions/week, including procedures. Remains as one of only a limited number of comprehensive pediatric headache programs nationwide.
- Implemented the Pediatric Headache DHE Protocols at The Johns Hopkins Children's Center and The Johns Hopkins Bayview Medical Center pediatric department as well as Epic order sets (in-patient and emergency department) for Johns Hopkins Children's Center and All Children's Hospital.
- Established a multi-disciplinary inpatient pathway for pediatric headache patients at The Johns Hopkins Children's Center.
- Co-creator of The Johns Hopkins Bayview Medical Center Headache Medicine Fellowship, director since 2016 with our first fellow joining us for the 2017-2018 academic year. Have mentored 1 headache medicine fellow in 5 of the 6

years since accepting fellows following the fellowship's creation and certification through United Council for Neurological Subspecialties.

- Co-director of The Johns Hopkins Adult Headache Center since 2020. Help to rebuild the adult center after being temporarily closed due to provider attrition. Current center is comprised of 4 physicians, 2 nurse practitioners, 1 headache medicine fellow, as well as close collaborations with various specialties (behavioral psychology, neurosurgery, PM&R, concussion, psychiatry, pain management), ancillary services (physical therapy, psychology), and The Johns Hopkins Pediatric Headache Center. The adult center has 4 clinical locations as well as a robust telemedicine program for routine new and follow-up patients as well as an acute care telemedicine clinic with nearly 50 clinical sessions/week, including for procedures.
- Assisted in the development and updating of the Adult Headache DHE Protocols at The Johns Hopkins Hospital and Bayview Medical Center as well as updating the treatment options at The Johns Hopkins Bayview Medical Center's infusion center.

Certification

Medical, other state/government licensure

2008-2010 Virginia, 0101243003

2012-present Maryland, D74444

Boards, other specialty certification

2008-2015 American Board of Pediatrics, #092734

2012-present American Board of Psychiatry and Neurology with Special Qualification in Child Neurology, #12120

2014-present United Council for Neurologic Subspecialties, Headache Medicine, #HM00690-14

Clinical (Service) Responsibilities

2012-present Attending physician, Pediatric Headache Clinic, 4-5 clinics per week (up to 7 clinics per week in past)

2012-present Attending physician, Child Neurology Resident Clinic, 1 clinic per month (up to 2 clinics per month in past)

2012-present Attending physician, Child Neurology Inpatient service, 2 weeks per year (up to 6 weeks per year in past)

2013-present Supervisory physician, Pediatric Headache Nurse Practitioners (current) and Physician Assistant (past)

2017-present Attending physician, Headache Fellow Clinic, 2-5 clinics per week

2017-2019 Attending physician, Complex Headache Follow-up Clinic, 1 clinic per week

2021-present Supervisory physician, Adult Headache Nurse Practitioners

Clinical Productivity (*such as the annual number of patients evaluated or treated, procedures performed, tertiary referrals, wRVUs, etc.*)

2012-present My targeted clinical wRVU has been ~2400 for the last several years (was variable previously depending on clinical effort). My actual wRVU has ranged from 2780 (FY 2015) to 4289 (FY 2018) with the last 5 years averaging ~3850 (FY 2018-2022) indicating that I am exceeding my target in the last several years by approximately 60%. Over the past 5 years, I have seen an average of over 300 new patients/year, performed an average of 500 procedures/year, and completed an average of ~1700 total visits/year. Total numbers for the pediatric headache center, adult headache center, and headache medicine fellowship are markedly higher.

Clinical Draw from outside local/regional area (*reflecting national/international reputation*)

2012-present Approximately 15-20% of all clinical visits came from outside of Maryland. States included: PA, VA, DE, WV, NJ, FL, NC, DC, NY, SC, TX, OH, CT, IN, AR, NH, AK, MI, NE, MN, AL, HI, TN, CO, NV, IA, OK, IL, MO, MA, AZ, MS, CA, GA, KY, WI, UT; International countries included but not limited to: Kuwait, Peru, Qatar, Saudi Arabia, Panama, United Arab Emirates, South Africa, Japan, Bermuda, France, Guatemala.

Membership in or examiner for specialty board

2020-present Headache Medicine Examination Committee member, American Headache Society representative, United Council for Neurological Subspecialties.

Clinical Program Building / Leadership

2012-present Creator and Director, The Johns Hopkins Pediatric Headache Center; draws patients from across the country as well as internationally.

2016-present Co-creator and Director, Headache Medicine Fellowship, The Johns Hopkins Bayview Medical Center; training future headache medicine providers who have gone on to practice throughout the county.

2020-present Co-Director, The Johns Hopkins Adult Headache Center; draws patients from across the country as well as internationally.

Clinical Demonstration Activities to external audience, on or off campus

- 2015-2018 Mentorship in development of a pediatric headache program, Jessica Klein, MD (Medical University of South Carolina, Charleston, SC).
- 2015-2017 Mentorship in development of a pediatric headache program, Rashmi Rao, MD (Children's Hospital of New Orleans (Louisiana State University), New Orleans, LA).
- 2017-2018 Mentorship in development of a pediatric headache program, Suzanne Hagler, MD (Nicklaus Children's Hospital, Miami, FL).
- 2017-2018 Observership and mentorship for establishment of pediatric headache clinic, Ryan Williams, MD (Children's Hospital of The King's Daughters (Eastern Virginia Medical School), Norfolk, VA).
- 2018-2019 Mentorship in development of a pediatric headache program, Sanjai Rao, MD (Virginia Commonwealth University, Richmond, VA).
- 2019 Observership for establishment of pediatric headache care within pediatrics and primary care clinics in El Salvador as well as the region, Manuel Vides, MD, MS (Instituto de Ojos Escalón, Colonia Escalon, San Salvador, El Salvador).
- 2019 Clinical collaboration and education in pediatric neurology, pediatric headache, and headache medicine to adult neurology, pediatric neurology, general pediatrics, and pediatric nursing at Johns Hopkins Aramco Healthcare and King Fahad Specialist Hospital as part of Johns Hopkins Medicine International's Distinguished Faculty Visitor program (Dhahran, Saudi Arabia).
- 2019 Observership for headache medicine and procedural interventions, Shireen Qureshi, MD (Johns Hopkins Aramco Healthcare, Dhahran, Saudi Arabia).

Development of nationally/internationally recognized clinical standard of care (*may not be published in peer-reviewed journals*):

- 2018 Co-author for recommendations on the use of anti-CGRP treatment for pediatric headache.
- 2018-2024 United Council for Neurological Subspecialties Fellowship Milestones for Headache Medicine – piloted in 2019/2020 for The Johns Hopkins Bayview Medical Center Headache Medicine Fellowship.
- 2019-2024 United Council for Neurological Subspecialties Fellowship Milestones for other specialties.

EDUCATIONAL ACTIVITIES

Educational Focus (*Optional—provide up to 100 word narrative, bulleted accomplishments, or key words that express your educational focus*)

- Educational focus: learner advocacy, mentoring, and career development through advising, lecturing, small group facilitation, and clinical practice.
- Colleges Advisory Program (Nathans College 2018-present) – working with 5 Johns Hopkins SOM incoming students (total of approximately 20-25 students at a given time) through their graduation to help them reach their career goals via advocacy (personal and professional), teaching, and mentoring focusing on the skills and attributes, including but not limited to professionalism, necessary to become the best physician they can be.
- Headache Medicine Fellowship Director (2016-present) – Developed the first neurology fellowship based out of The Johns Hopkins Bayview Medical Center and one of only approximately 45 programs nationwide. Created a unique curriculum among headache fellowships by offering both a robust pediatric and adult programs while tailoring the year to that year's fellow/learner with a variety of didactics and teachings sessions, clinical rotations and electives through collaborations with various departments within the Johns Hopkins system, and educational opportunities through teaching/lecturing, precepting, and research/academic ventures. Helped envision, author, and implement the Headache Medicine Fellowship Milestones through the United Council of Neurological Subspecialties that are being piloted in 2019 and 2020 and will become universally adopted by all Headache Medicine Fellowships nationwide tentatively in 2021.
- Neurology Clerkship Leadership (2015-2020) – focused on student/learner well-being (personally and professionally) through advocacy and mentoring and well as career development through academic and clinical ventures. Incorporated Johns Hopkins University students as part of the Neurology Pre-Doctoral program (Director Rachel Salas) in clinic and the inpatient units to expose them to clinical neurology and demonstrate attributes such as professionalism. Incorporated medical students and nurse practitioner students into the clinical setting to foster professional development through mentoring and teaching focusing on professionalism and patient centered approach to neurology/pediatric neurology/headache medicine. Through this process, and especially by serving as the advanced neurology clerkship and elective director (2012-2020 pediatric neurology/2016-2020 adult neurology),

mentored students who ultimately chose to pursue a future career in neurology, pediatric neurology, or even headache medicine.

Teaching

Classroom instruction

2010-2020	Preceptor, medical students, Neurology Clinical Skills Course, The Johns Hopkins University SOM
2013-2016	Lecturer, nurse practitioner students, Pediatric Headache, University of Maryland School of Nursing
2013-2016	Lecturer, nurse practitioner students, Pediatric Neurology, University of Maryland School of Nursing
2014-2020	Lecturer, medical students Neurology Clerkship Lecture Series, The Johns Hopkins University SOM (up to 10 session per academic year)
2016-2018	Lecturer, nurse practitioner students, Pediatric Headache, The Johns Hopkins University School of Nursing
2016-2018	Lecturer, nurse practitioner students, Pediatric Epilepsy, The Johns Hopkins University School of Nursing
2017-present	Lecturer, medical students, Genes to Society (nervous system and special senses brain, mind, and behavior), The Johns Hopkins University SOM
2018-present	Clinical Foundations of Medicine, core faculty/lecturer/small group leader as part of Colleges Advisory Program, The Johns Hopkins University SOM
2019-present	Lecturer (video recorded sessions) nurse practitioner students, Pediatric Headache and Epilepsy, The Johns Hopkins University School of Nursing
2019-2020	Neurology faculty, Caregiving and Dementia: An Interprofessional Education Didactic

Clinical instruction

2012-present	Preceptor, Pediatric Neurology residents in Pediatric Neurology Resident Clinic, 3-5 residents per clinic
2012-present	Preceptor, Neurology, Pediatric and Psychiatry residents (Johns Hopkins) in Pediatric Headache Clinic, up to 3 residents/week
2012-present	Preceptor, Neurology Clerkship students (Johns Hopkins) in Pediatric Headache Clinic, up to 4 students/week
2012-present	Preceptor, Neurology residents (University of Maryland SOM) in Pediatric Headache Clinic, up to 2 resident/month
2014-2017	Preceptor, Nurse Practitioner students (University of Maryland SON) in Pediatric Headache Clinic, 1 student/semester
2015-2018	Preceptor, Nurse Practitioner students (The Johns Hopkins University SON) in Pediatric Headache Clinic, 1-2 student/semester
2017-present	Preceptor, The Johns Hopkins Bayview Medical Center Headache Medicine fellow in Headache Clinics (pediatric, adult, continuity), 1 fellow/year with 2-5 clinics/week
2018-2020	Clinical Preceptor, JH PreDoc Program, College Academic Medicine Apprenticeship, up to 5 students/semester with a few clinics/student/semester
2020-present	Preceptor, Nurse Practitioner students (The Johns Hopkins University SON) in Pediatric Headache Clinic, 1-2 student/semester

CME instruction

JHMI/Regional

9/2013	Speaker, "Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
4/2014	Moderator, Johns Hopkins Hospital Pediatric Trends Conference, Neurology Section
4/2014	Speaker, "Pediatric Headache" Johns Hopkins Hospital Pediatric Trends Conference Neurology Section
4/2014	Speaker, "POTS from the Neurologist", Johns Hopkins Hospital Pediatric Trends Conference Cardiology Section
9/2014	Speaker, "Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
4/2015	Moderator, Johns Hopkins Hospital Pediatric Trends Conference, Neurology Section
9/2016	Speaker, "Child and Adolescent Headaches 101: Assessment, Diagnosis, Treatment", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
10/2017	Speaker, "Brain Pain: Migraine and Their Variants", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
10/2018	Speaker, "Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
10/2019	Speaker, "An Update on Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
10/2020	Speaker, "Headache in Pediatric Patients", Management of Chronic Pain in Children and Adolescent, Johns Hopkins Medicine and Kennedy Krieger Institute (converted to virtual)
10/2020	Speaker, "Neurology Update", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital (converted to virtual)
10/2024	Speaker, "Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital

National

- 4/2013 Speaker, "Pediatric Headache", Golisano Children's Hospital of Southwest Florida Annual Pediatric Conference, Sanibel, Island, FL
- 11/2013 Speaker, "Pediatric Headache", Holy Name Headache Symposium, Teaneck, NJ
- 2/2014 Speaker, "Pediatric Epilepsy and Migraine Overlap", 16th Annual Pediatric Epilepsy Symposium, Asheville, NC
- 12/2014 Speaker, "Pediatric Epilepsy and Migraine Overlap", American Epilepsy Society: Pediatric Epilepsy Symposiums, Seattle, WA
- 9/2016 Speaker, "Pediatric Headache", Children's Hospital of the King's Daughters Annual Pediatric Conference, Williamsburg, VA
- 6/2017 Speaker, "Technology and Devices in Pediatric Headache", American Headache Society Scientific Meeting, Boston, MA
- 9/2017 Speaker, "Brain Pain: Migraine and Their Variants", American Academy of Pediatrics Annual Meeting, Chicago, IL
- 9/2018 Speaker, "Dysautonomia and Migraine in the Pediatric Patient", Southern Headache Society Annual Meeting, Asheville, NC
- 10/2018 Speaker, "Meet the Experts Discussion Panel", Child Neurology Society Annual Meeting, Chicago, IL
- 9/2019 Moderator, Main Plenary and Key Note Address, Southern Headache Society Annual Meeting, Nashville, TN
- 9/2019 Moderator, Headache in Special Populations, Southern Headache Society Annual Meeting, Nashville, TN
- 10/2019 Speaker, "Chronic Headaches and Medical Failures", Pediatric Brain Symposium, St. Petersburg, FL
- 10/2019 Speaker, "Pain in my Brain! Management of Migraines and Other Headaches", American Academy of Pediatrics Annual Meeting, New Orleans, LA
- 3/2020 Speaker, "Pediatric Migraine: An Update", Headache Symposium, Providence, RI (rescheduled to fall 2020 with virtual meeting due to Covid-19)
- 6/2020 Speaker, "Update on Pediatric Headaches and Migraines", Pediatrics by the Sea, Georgia AAP, Amelia Island, FL (cancelled due to Covid-19)
- 6/2020 Speaker, "Management of Pediatric Seizures", Pediatrics by the Sea, Georgia AAP, Amelia Island, FL (cancelled due to Covid-19)
- 10/2020 Speaker, "Pediatric Headache in 2020", Southern Headache Society Annual Meeting, Asheville, NC / virtual (hybrid)
- 10/2020 Moderator, Plenary session, Southern Headache Society Annual Meeting, Asheville, NC / virtual (hybrid)
- 10/2020 Speaker, "Headache Management in Primary Care", American Academy of Pediatrics Annual Meeting, San Diego, CA (converted to virtual)
- 10/2020 Speaker, "Neuromodulation for Migraine: What is the role for devices in the treatment of childhood migraine?", Child Neurology Society Annual Meeting, San Diego, CA (converted to virtual)
- 11/2020 Keynote Speaker, "Updates in Migraine Management", Pediatric Brain Symposium, St. Petersburg, FL (converted to virtual)
- 10/2021 Speaker, "Crossroads Between Epilepsy and Migraine: Shared Opportunity for Treatment", Southern Society Annual Meeting, virtual
- 10/2021 Speaker, "Doctor, my head hurts: A practical approach to pediatric headaches", American Academy of Pediatrics Annual Meeting, Philadelphia, PA (converted to virtual)
- 6/2022 Speaker, "Update on Pediatric Headaches and Migraines", Pediatrics By the Sea / Georgia AAP Annual Meeting, Amelia Island, FL
- 6/2022 Speaker, "Management of Pediatric Seizures", Pediatrics By the Sea / Georgia AAP Annual Meeting, Amelia Island, FL
- 9/2022 Speaker, "Pediatric Headaches: What I Want My Colleagues to Know", Southern Headache Society Annual Meeting, Asheville, NC
- 9/2022 Moderator, Plenary session, Southern Headache Society Annual Meeting, Asheville, NC
- 11/2022 Speaker, "POTS: Dizzy and Lightheaded, Headache's Pandora's Box", American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 11/2022 Moderator, Plenary session, American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 2/2023 Speaker, "Update on Pediatric Headaches and Migraines", Columbus Pediatric Grand Rounds, Mercer University, Atlanta, GA (virtual)
- 3/2023 Speaker, "Management of Pediatric Seizures", Columbus Pediatric Grand Rounds, Mercer University, Atlanta, GA (virtual)
- 4/2023 Speaker, "Crossroads Between Seizures and Headaches: Shared Opportunity for Treatment", American Academy of Neurology Annual Meeting, Boston, MA
- 9/2023 Speaker, "Pediatric Headache's Pandora's Box", Seattle Children's Hospital, Pediatric Neurology Grand Rounds, University of Washington, Seattle, WA (virtual)

- 10/2023 Speaker, “Post-traumatic Dysautonomia”, Southern Headache Society Annual Meeting, Charlotte, NC
- 10/2023 Moderator, Plenary session, Southern Headache Society Annual Meeting, Charlotte, NC
- 10/2023 Speaker, “Headache Management: A Primer for the Pediatrician”, American Academy of Pediatrics Annual Meeting, Washington, DC
- 11/2023 Moderator, Plenary session, American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 11/2023 Speaker, “Why Blood Matters”, American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 9/2024 Speaker, “Practical Approach to POTS”, Southern Headache Society Annual Meeting, Louisville, KY
- 9/2024 Moderator, Plenary session, Southern Headache Society Annual Meeting, Louisville, KY
- 11/2024 Speaker, “Clinical Experience with Neuromodulation in Children and Adolescents”, American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 11/2024 Moderator, Plenary session, American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ

International

- 3/2016 Speaker, “Head Injury and Concussion: What’s New”, Caribbean Pediatric Neurology Conference, International Child Neurology Association, Barbados
- 3/2016 Speaker, “Pediatric Headache: When Should We Worry”, Caribbean Pediatric Neurology Conference, International Child Neurology Association, Barbados
- 3/2016 Speaker, “Sickle Cell Disease: Neurological Complications”, Caribbean Pediatric Neurology Conference, International Child Neurology Association, Barbados
- 10/2016 Speaker, “Pediatric Headache Alternative Treatment Options”, Child Neurology Society Annual Meeting, Vancouver, BC, Canada
- 10/2020 Speaker, “Neuromodulation for Migraine: What is the role for devices in the treatment of childhood migraine?”, International Child Neurology Association Annual Meeting, converted to virtual
- 1/2023 Speaker, “Hot Topics in Pediatric Headache Medicine: Dysautonomia and Headache”, International Pediatric Medicine Didactic Series

Workshops /seminars

None

Mentoring *(Please list only mentees who have received substantive and sustained mentoring in clinical, research, and/or educational activities.)*

Pre-doctoral Advisees /Mentees

- 2016-2018 Erica Lee (Johns Hopkins University graduate program), research mentor for her masters/projects/thesis on Pediatric Headache/Migraine and career mentor – matriculated to Johns Hopkins Medical School in 2018
- 2018-present John (Jack) Gatti (Johns Hopkins School of Medicine), research and career mentor, scholarly concentrations project (faculty advisor): Cefaly Survey Study in Pediatric Headache
- 2018-2020 Sarah McAlister (Johns Hopkins School of Medicine), research and career mentor, completed scholarly concentrations project (faculty advisor): Prophylactic use of SNRIs to Treat Pediatric Migraine via Reduction of Comorbid Anxiety and Depression, Poster presentation 2019 AAN
- 2019-2020 Dustin Gable (Johns Hopkins School of Medicine), career mentor for pediatric neurology - SOM graduate 2020 with residency in pediatric neurology at Boston Children’s Hospital
- 2019-2021 Rebecca Wig (DY Patil School of Medicine, Navi Mumbai, India), research and career mentor, faculty supervisor for neurology clinical and research elective 2019. Shared publications: co-author RA 3.
- 2019-present Nivi Ram (Johns Hopkins School of Medicine), research and career mentor, faculty advisor for scholarly concentrations project: Survey Study of Cefaly in the treatment of pediatric headache/migraine

Post-doctoral Advisees /Mentees

- 2015-current Jessica Klein, MD, Assistant Professor of Pediatric Neurology Medical University of South Carolina (2015-2018) The Johns Hopkins SOM (2019-2022); mentorship in development of a pediatric headache program as MUSC (returned to join Pediatric Headache group at Johns Hopkins in 2019). Shared publications: chapter author BK 1, chapter co-author, BC 6.
- 2015-2017 Rashmi Rao, MD, Assistant Professor of Pediatric Neurology; Louisiana State University (Children’s Hospital of New Orleans); mentorship in development of a pediatric headache program. Shared publications: chapter author BK 1.

- 2016-2020 Clare Stevens (Skora), MD, Chief Resident Johns Hopkins Pediatric Neurology Residency; research mentor for Chief Resident Quality Improvement and Research Study - Treatment of Headache in Johns Hopkins Pediatric Emergency Department. Shared publications: co-author OR 1.
- 2017 Ryan Williams, MD, Assistant Professor of Pediatric Neurology Eastern Virginia Medical School (Children's Hospital of The King's Daughters; mentorship in development of a pediatric headache program. Shared publications: chapter author BK 1.
- 2017-2018 Sana Siddiqi, MD, Attending Physician Private Practice, Pennsylvania; Headache Medicine Fellowship Graduate 2018; fellowship director and mentorship in development of headache medicine program.
- 2017-2018 Suzanne Hagler, MD, Nicklaus Children's Hospital, Miami, FL; mentorship in development of a pediatric headache program.
- 2018 Sanjai Rao, MD (Virginia Commonwealth University, Richmond, VA); mentorship in development of a pediatric headache program. Shared publications: chapter co-author BC 2.
- 2019-2020 Daniel Feldman, MD, Attending Cleveland Clinic, Ohio; Headache Medicine Fellowship Graduate 2020; fellowship director and mentorship in development of an academic headache medicine career. Shared publications: chapter author BK 1.
- 2020-2021 Andrew Dawson, MD; Attending Physician Private Practice in Missouri, Headache Medicine Fellowship Graduate 2021; fellowship director and mentorship in development of an academic headache medicine career.
- 2021-present Christina Graley, MD; Attending Johns Hopkins Bayview Medical Center (The Johns Hopkins Headache Center), Maryland; Headache Medicine Fellowship Graduate 2022; fellowship director and mentorship in development of an academic headache medicine career and as mentor when she joins as junior faculty. Shared publications: RA 1
- 2022-2023 Aishwarya Taneja, MD; Attending Physician Private Practice in California; Headache Medicine Fellowship Graduate 2023; fellowship director and mentorship in development of pediatric headache medicine program.
- 2023-present Katrina Nayak, MD; Attending Johns Hopkins Bayview Medical Center (The Johns Hopkins Headache Center), Maryland; Headache Medicine Fellowship Graduate 2024; fellowship director and mentorship in development of an academic headache medicine career and as mentor as junior faculty.
- 2024-2025 Victoria Phoumthipphavong, MD; Attending University of California San Francisco; Headache Medicine Fellowship Graduate 2025; fellowship director and mentorship in development of an academic headache medicine career.

Thesis committees

- 2018 Erica Lee, Art and Migraine: Insight into Brain Function, research mentor and co-investigator.

Educational Program Building / Leadership

- 2012-2020 Director, Pediatric Neurology Advanced Clerkship and Electives, The Johns Hopkins University SOM. In this capacity I was responsible for scheduling Johns Hopkins School of Medicine medical students as well as visiting medical students from other US or international medical schools interested in taking this course as an elective or as a sub-internship. I would create their schedules, meet with them throughout their rotation, provide teaching throughout their time in the course, and was responsible for the end of course wrap-up and evaluations.
- 2015-2020 Assistant/Associate/Co-Director, Neurology Clerkship, The Johns Hopkins University SOM. In this capacity I was responsible for meeting and teaching Johns Hopkins School of Medicine upper classmen when they were on their neurology core clerkship; I would meet with students as well faculty and/or staff when any problem developed and served as a student advocate for any student rotating through neurology. I served on the Educational Policy and Curriculum Committee (EPCC), EPCC Clerkship Directors Subcommittee, EPCC Clinical Skills Subcommittee, and Medical Student Formational Committee as neurology clerkship representative 2016-2020. I also was partially responsible for reviewing student's performance throughout the clerkship and finalizing the clerkship grades.
- 2016-2020 Director, Neurology Advanced Clerkship and Electives, The Johns Hopkins University SOM. In this capacity I was responsible for scheduling Johns Hopkins School of Medicine medical students as well as visiting medical students from other US or international medical schools interested in taking this course as an elective or as a sub-internship. I would create their schedules, meet with them throughout their rotation, provide teaching throughout their time in the course, and was responsible for the end of course wrap-up and evaluations.
- 2016-present Director and co-creator, The Johns Hopkins Bayview Medical Center Headache Medicine Fellowship, The Johns Hopkins University SOM. In this capacity I was responsible for co-creating the fellowship, including

developing the schedule and curriculum for the headache medicine fellowship as well as obtaining certification from the United Council for Neurological Subspecialties (UCNS), which is the governing body overseeing all certified headache medicine fellowships. As director, I am responsible for teaching and mentoring each headache medicine fellow throughout their fellowship year to help them graduate with the ability and confidence to practice headache medicine independently as well as ability to take the headache medicine boards. I am responsible for creating their schedules (clinic, rotations, electives), helping foster an academic headache medicine environment (teaching, journal club, clinicals, conferences), helping with headache medicine board preparation, as well as looking out for the well-being throughout the fellowship year. I also serve as career mentor for each fellow during not only their fellowship year but also after they graduate.

Educational Demonstration Activities to external audiences, on or off campus

None

RESEARCH ACTIVITIES *(in chronological order, earliest first by start date under each subcategory)*

Research Focus *(Optional--provide up to 100 word narrative, bulleted accomplishments, or key words that express your research focus; or include NIH Biosketch section A here)*

- Research Focus: Clinical research in pediatric and adult headache medicine as well as quality improvement with regard to the care of pediatric and adult headache patients.
- Areas of interest include: prophylactic treatments, acute treatments, complementary/alternative therapies, and patient tracking.
- Projects have included pharmacologic agents, procedures, treatment devices, app development and use by patients and providers, and focus groups for alternative therapies. Projects have been chart review studies, retrospective studies, prospective survey studies, and quality improvement initiatives.

Research Program Building / Leadership

None

Research Program Building / Leadership

None

Inventions, Patents, Copyrights

None

Technology Transfer Activities

None

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation Focus

- Focus on improving headache and migraine care for adult and pediatric populations through access to care, systematic approach to the assessment and evaluation, implementing a uniform multi-tiered and multi-disciplinary treatment approach.
- Building collaborations with various specialties to better serve our patient populations.
- Creating and implementing protocols for the management of headache/migraine patients in various medical settings at several Johns Hopkins locations.

System Innovation and Quality Improvement efforts within JHMI:

2012-present Director of Pediatric Headache/Creator, Inpatient Headache/Migraine Protocols implementation including for DHE, JHH and JHBMC, standardized and improved care of patients admitted for ongoing headaches including EPIC order sets for both Johns Hopkins Children's Center and All Children's Hospital (FL).

2012-present Director of Pediatric Headache/Creator, ED Treatment of Headache/Migraine Protocols implementation, JHH and JHBMC, standardized and improved care of patients presenting to the Pediatric ED for headache including EPIC order sets for both Johns Hopkins Children's Center and All Children's Hospital (FL) and quality improvement study with prior medical student and resident.

2020-present Co-director of Adult Headache/Creator, Adult Headache/Migraine DHE Protocols and IV Infusion Headache/Migraine Protocols implementation, JHBMC, standardized and improved care of patients presenting to the ED, inpatient Neurology or other medical services, of the outpatient infusion center.

[System Innovation and Quality Improvement efforts outside of JHMI](#)

None

[System Innovation and Quality Improvement Program Building / Leadership](#)

None

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

2014-2024 Junior Faculty Resource Advisory Council, The Johns Hopkins University SOM
2016-2020 Educational Policy and Curriculum Committee (EPCC)
2016-2020 EPCC Clerkship Directors Subcommittee
2016-2020 EPCC Clinical Skills Subcommittee
2016-2020 Medical Student Formational Committee
2017-2021 American Academy of Neurology Student Interest Group in Neurology, Faculty Advisor for Johns Hopkins
2018-present Colleges Advisory Program, Nathans College

Editorial Activities

Editorial Board appointments

None

Journal peer review activities

2012-present Pediatric Neurology
2012-present Pediatrics
2012-present British Medical Journal
2012-present Headache
2012-present Cephalalgia

[Other peer review activities \[non medico-legal\]](#)

None

Advisory Committees, Review Groups/Study Sections

2017-2024 Accreditation Council member, Child Neurology Society representative, United Council for Neurological Subspecialties
2020-present Headache Medicine Examination Committee member, American Headache Society representative, United Council for Neurological Subspecialties

Professional Societies

2005-2009 American Academy of Pediatrics, Member
2008-2015 American Academy of Pediatrics, Fellow
2009-2012, 2016-2020 American Academy of Neurology, Member
2019-2020: Consortium of Clerkship Directors
2011-2021 Child Neurology Society, Member
2017-2024: Child Neurology Society appointee to the Accreditation Council for United Council for Neurological Subspecialties
2016-2021: International Committee member
2011-2021: Headache Committee member
2018-2019: Headache Committee Co-Chair
2019-2021: Headache Committee Chair

2012-present American Academy of Neurology, Fellow
2014-present American Headache Society, Member
2014-present: Pediatric Section Committee member

2016-present: Procedural Section Committee member
 2016-present: Academic Program Directors Committee member
 2020-present: American Headache Society appointee to the Headache Medicine Examination Committee for United Council for Neurological Subspecialties
 2022-present: Pediatric and Adolescent SIG Co-Chair
 2017, 2019-present Southern Headache Society, Member
 2019-present: Board Member
 2019-present: Education Planning Committee
 20221-2023: Conference Co-Organizer

Conference Organizer (*separate into JHMI/Regional - National - International activities*)

JHMI/Regional

None

National

9/2021 (converted to virtual) Conference Co-Organizer, Southern Headache Society Annual Meeting, virtual
 9/2022 Conference Co-Organizer, Southern Headache Society Annual Meeting, Asheville, NC
 9/2023 Conference Lead Organizer, Southern Headache Society Annual Meeting, Charlotte, NC

International

None

Session Chair (*separate into JHMI/Regional – National - International activities*)

JHMI/Regional

None

National

2018-2021 Child Neurology Society Annual Conference Headache Special Interest Group Co-Chair (2018-2019), Chair (2019-2021)
 2022-present American Headache Society Annual Conference Pediatric and Adolescent Special Interest Group Co-Chair

International

None

Consultantships

None

RECOGNITION

Awards, Honors

2012 Outstanding Junior Member Award, Child Neurology Society
 2014 Baltimore Magazine Top Doctors for Pediatric Neurology
 2015 Fellow and Scholarship Awardee, International Headache Academy
 2016 Osler Attending in Neurology, Johns Hopkins University SOM
 2016 Baltimore Magazine Top Doctors for Pediatric Neurology
 2017 United Council for Neurological Subspecialties Accreditation Council appointee for Child Neurology Society
 2019 Johns Hopkins Medicine International’s Distinguished Faculty Visitor, Johns Hopkins Aramco Healthcare
 2020 United Council for Neurological Subspecialties Headache Medicine Examination Committee appointee for American Headache Society

Invited Talks

JHMI/Regional

8/2012 Speaker, “Pediatric Neurology Case Presentation”, Barton Pediatric Case Conference, Johns Hopkins Hospital
 8/2012 Speaker, “Pediatric Headache”, Pediatric Neurology Grand Rounds, Johns Hopkins Hospital

10/2012 Speaker, "Pediatric Headache 101", Pediatric Hospitalist Monthly Meeting, Johns Hopkins Bayview Medical Center

1/2013 Speaker, "Pediatric Headache", Neurology Resident's Noon Conference, Johns Hopkins Hospital

2/2013 Speaker, "Headaches in Kids", Pediatric Resident's Noon Conference, Johns Hopkins Hospital

2/2013 Speaker, "Pediatric Headache", Department of Pediatrics, Anne Arundel Medical Center, Annapolis, MD

2/2013 Speaker, "Pediatric Headache", Johns Hopkins Community Physicians Case Conference, Baltimore, MD

2/2013 Speaker, "Migraine Management", Pediatric Resident Noon Conference, Johns Hopkins Hospital

2/2013 Speaker, "Child Neurology", Pediatric Clerkship Lecture Series, Johns Hopkins Hospital

3/2013 Speaker, "Acute Headache and Migraine Management", Pediatric Emergency Medicine, Johns Hopkins Hospital

4/2013 Speaker, "Pediatric Headache", Pediatric Neurology Webinar, Johns Hopkins Hospital

4/2013 Speaker, "Pediatric Headache", University of Maryland Nurse Practitioner School, Baltimore, MD

4/2013 Speaker, "Child Neurology", TRIPLE program, Johns Hopkins University SOM

6/2013 Speaker, "Pediatric Seizures and Movement Disorders", University of Maryland Nurse Practitioner School, Baltimore, MD

7/2013 Speaker, "Pediatric Headache part 1", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital

7/2013 Speaker, "Pediatric Neurology Case Presentation", Barton Pediatric Case Conference, Johns Hopkins Hospital

9/2013 Speaker, "Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital

11/2013 Speaker, "Pediatric Headache", Pediatrics Grand Rounds, St. Agnes Hospital, Baltimore, MD

11/2013 Speaker, "Pediatric Headache part 2", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital

12/2013 Speaker, "Pediatric Headache", Pediatric Grand Rounds, Johns Hopkins Hospital

12/2013 Speaker, "Pediatric Epilepsy", Pediatric Clerkship Lecture Series, Johns Hopkins University SOM

1/2014 Speaker, "Pediatric Headache", Neurology Residents Noon Conference, Johns Hopkins Hospital

3/2014 Speaker, "Adolescent Headache", Johns Hopkins Hospital Urban Health Medicine-Pediatrics Noon Conference

4/2014 Moderator, Johns Hopkins Hospital Pediatric Trends Conference, Neurology Section

4/2014 Speaker, "Pediatric Headache" Johns Hopkins Hospital Pediatric Trends Conference Neurology Section

4/2014 Speaker, "POTS from the Neurologist", Johns Hopkins Hospital Pediatric Trends Conference Cardiology Section

4/2014 Speaker, "Pediatric Headache" University of Maryland Nurse Practitioner School

5/2014 Speaker, "Pediatric Migraine Management", Neurology Residents Noon Conference, Johns Hopkins Hospital

7/2014 Speaker, "Pediatric Seizures and Movement Disorders" University of Maryland Nurse Practitioner School

8/2014 Speaker, "Pediatric Headache", Department of Behavioral Psychology, Kennedy Krieger Institute

8/2014 Speaker, "Pediatric Headache part 1", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital

8/2014 Speaker, "Headaches in Kids", Pediatric Residents Noon Conference, Johns Hopkins Hospital

9/2014 Speaker, "Pediatric Headache part 2", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital

9/2014 Speaker, "Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital

11/2014 Speaker, "Pediatric Neurology Case Presentation", Johns Hopkins Hospital Barton Pediatric Case Conference

3/2015 Speaker, "Pediatric Headache" Neurology Lunch and Learns, Johns Hopkins Outpatient Center

3/2015 Speaker, "Pediatric Headache", MASHN Conference, Ocean City MD

3/2015 Speaker, "Pediatric Headache", East Baltimore Medical Center, Department of Pediatrics

4/2015 Moderator, Johns Hopkins Hospital Pediatric Trends Conference, Neurology Section

6/2015 Speaker, "Pediatric Headache (Migraine and Concussion)", Department of Pediatrics, Johns Hopkins Bayview Medical Center

6/2015 Speaker, "Pediatric Migraine", Neurology Residents Noon Conference, Johns Hopkins Hospital

6/2015 Speaker, "Migraine Treatment", Neurology Residents Noon Conference, Johns Hopkins Hospital

7/2015 Speaker, "Pediatric Headache", University of Maryland Nurse Practitioner School

7/2015 Speaker, "Pediatric Headache: What Parent's Need to Know" International Hemispherectomy Conference, Baltimore, MD

8/2015 Speaker, "Acute Management for Pediatric Headache", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital

8/2015 Speaker, "Child and Adolescent Headache/Migraine 101", Baltimore County School Nursing Conference, Towson, MD

8/2015 Speaker, "Headache/Migraine 101", Neurology Clerkship, Johns Hopkins University School of Medicine

9/2015 Speaker, "Pediatric Headache Clinic: A Typical Day of Fun", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital

9/2015 Speaker, "Headache/Migraine 101", Johns Hopkins University School of Medicine Neurology Clerkship

9/2015 Speaker, "Pediatric Migraine: There is more To Treatment than Tylenol and Topamax", Blaustein Pain Conference, Johns Hopkins Hospital

10/2015 Speaker, "Headache/Migraine 101" Johns Hopkins University School of Medicine Neurology Clerkship

- 11/2015 Speaker, "Child and Adolescent Headache/Migraine 101" Washington County School Nursing Conference, Hagerstown, MD
- 11/2015 Speaker, "Child Neurology Overview (seizures, movement disorders, developmental delay)" University of Maryland Nursing School
- 12/2015 Speaker, "Acute Headache Management", Johns Hopkins School of Medicine Pediatric Emergency Medicine
- 3/2016 Speaker, "Pediatric Headache 101", Johns Hopkins School of Medicine Child and Adolescent Psychiatry
- 4/2016 Speaker, "Management of Pediatric Headache", Behavioral Psychology Lecture Series, Kennedy Krieger Institute
- 4/2016 Speaker, "Pediatric Headache 101: Diagnosis, Assessment, and Treatment", Pediatric Grand Rounds, Mercy Hospital, Baltimore, MD
- 4/2016 Speaker, "Pediatric Headache 101: Diagnosis, Assessment, and Treatment", Neurodevelopmental Grand Rounds, Kennedy Krieger Institute
- 4/2016 Speaker, "Pediatric Headache 101", Johns Hopkins School of Nursing, nurse practitioner program
- 4/2016 Speaker, "Pediatric Epilepsy" Johns Hopkins School of Nursing, nurse practitioner program
- 7/2016 Speaker, "Acute Migraine Treatment", Pediatric Residents Noon Conference, Johns Hopkins Hospital
- 8/2016 Speaker, "Pediatric Migraine: There is more To Treatment Than Tylenol, Triptans and Topamax – Part 1", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital
- 9/2016 Speaker, "Pediatric Migraine: There is more To Treatment Than Tylenol, Triptans and Topamax – Part 2", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital
- 9/2016 Speaker, "Child and Adolescent Headaches 101: Assessment, Diagnosis, Treatment", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
- 10/2016 Speaker, "Pediatric Headache and POTS: A Pandora's Box", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital
- 11/2016 Speaker, "Pediatric Migraine: There is more To Treatment Than Tylenol, Triptans and Topamax", Pediatric Grand Rounds, Saint Agnes Hospital, Baltimore, MD
- 11/2016 Speaker, "Child and Adolescent Headache/Migraine 101", Harford County Public School Nurses Professional Development Day, Harford County, MD
- 1/2017 Speaker, "Pediatric Migraine: There is more To Treatment Than Tylenol, Triptans and Topamax", Behavioral Psychology Lecture Series, Kennedy Krieger Institute
- 2/2017 Speaker, "Migraine treatment in the Emergency Room", Pediatric Emergency Medicine, Johns Hopkins Hospital
- 4/2017 Speaker, "Pediatric Migraine: There is more To Treatment Than Tylenol and Topamax", Child and Adolescent Psychiatry, Johns Hopkins Hospital
- 4/2017 Speaker, "Pediatric Headache 101", Johns Hopkins School of Nursing, nurse practitioner program
- 4/2017 Speaker, "Pediatric Epilepsy" Johns Hopkins School of Nursing, nurse practitioner program
- 5/2017 Speaker, "Acute Management of Pediatric Headache in the Emergency Department", Pediatrics, Johns Hopkins Bayview Medical Center
- 5/2017 Speaker, "Migraine Pharmacology", Genes to Society Course, Johns Hopkins School of Medicine
- 7/2017 Speaker, "Medical Students on the Neurology Clerkship", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 7/2017 Speaker, "Prophylactic Headache Treatment", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 8/2017 Speaker, "Management of Headache Pain", Neurology Pain Management Conference, Johns Hopkins Hospital
- 10/2017 Speaker, "Pediatric Migraine: There is more To Treatment Than Tylenol, Triptans and Topamax", Behavioral Psychology Lecture Series, Kennedy Krieger Institute
- 10/2017 Speaker, "Pediatric Headache Management", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 10/2017 Speaker, "Brain Pain: Migraine and Their Variants", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
- 11/2017 Speaker, "Pediatric Migraine", Educational Session for Visiting Chinese Neurology Delegation, Johns Hopkins Hospital
- 11/2017 Speaker, "Pediatric Headache 101", Johns Hopkins School of Nursing, nurse practitioner program
- 11/2017 Speaker, "Pediatric Epilepsy" Johns Hopkins School of Nursing, nurse practitioner program
- 2/2018 Speaker, "Brain Pain: Pediatric Migraine and Their Variants, part 1", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital
- 3/2018 Speaker, "Pediatric and Adolescent Headache" Adolescent Medicine Grand Rounds, Johns Hopkins Hospital
- 4/2018 Speaker, "Brain Pain: Pediatric Migraine and Their Variants, part 2", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital
- 4/2018 Speaker, "Pediatric Headache 101", Johns Hopkins School of Nursing, nurse practitioner program
- 4/2018 Speaker, "Pediatric Epilepsy" Johns Hopkins School of Nursing, nurse practitioner program
- 5/2018 Speaker, "Pediatric Migraine: There is more To Treatment Than Tylenol and Topamax", Child and Adolescent Psychiatry, Johns Hopkins Hospital

- 5/2018 Speaker, "Pediatric and Adolescent Headache Treatment" Adolescent Medicine Grand Rounds, Johns Hopkins Hospital
- 5/2018 Speaker, "POTS and Migraine in the Pediatric Population", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital
- 5/2018 Speaker, "Migraine Pharmacology", Genes to Society Course, Johns Hopkins School of Medicine
- 7/2018 Speaker, "Medical Students on Neurology Clerkship", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 8/2018 Speaker, "DHE for Pediatric Headache/Migraine", Pediatrics, Johns Hopkins Bayview Medical Center
- 10/2018 Speaker, "Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
- 10/2018 Speaker, "Pediatric Headache 101", Johns Hopkins School of Nursing, nurse practitioner program
- 10/2018 Speaker, "Pediatric Epilepsy" Johns Hopkins School of Nursing, nurse practitioner program
- 1/2019 Speaker, "Brain Pain: Pediatric Migraine", Pediatric Grand Rounds, Saint Agnes Hospital, Baltimore, MD
- 3/2019 Speaker, "Pediatric Headache", Educational Session for Visiting Chinese Neurology Delegation, Johns Hopkins Hospital
- 3/2019 Speaker, "Pediatric Migraine: There is more To Treatment Than Tylenol, Triptans and Topamax", Behavioral Psychology Lecture Series, Kennedy Krieger Institute
- 4/2019 Speaker, "Brain Pain: Pediatric Migraine", Child and Adolescent Psychiatry, Johns Hopkins Hospital
- 5/2019 Speaker, "Cyclical Vomiting Syndrome and Abdominal Migraine", Pediatric Gastroenterology Academic Conference, Johns Hopkins Hospital
- 5/2019 Speaker, "Migraine Pharmacology", Genes to Society Course, Johns Hopkins School of Medicine
- 8/2019 Speaker, "Working with Medical Students in Neurology", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 8/2019 Speaker, "Pediatric Headache: An Update on New and Innovative Treatments", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital
- 9/2019 Speaker, "Brain Pain – Update in the Treatment of Pediatric Migraine", Pediatric Grand Rounds, Saint. Agnes Hospital, Baltimore, MD
- 10/2019 Speaker, "An Update on Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital
- 11/2019 Speaker, "Pain in my Brain! Management of Pediatric Migraines", Blaustein Pain Conference, Johns Hopkins Hospital
- 2/2020 Speaker, "Career Networking", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 2/2020 Speaker, "Contract Negotiations", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 4/2020 Speaker, "Acute Management of Pediatric Headache in the Emergency Department", Pediatric Emergency Department Conference, Johns Hopkins Hospital
- 4/2020 Speaker, "Pediatric Headache and Sickle Cell Disease", Pediatric Hematology Conference, Johns Hopkins Hospital
- 5/2020 Speaker, "Unusual Presentations for Pediatric Headache", Pediatric Emergency Department Conference, Johns Hopkins Hospital
- 5/2020 Speaker, "Migraine Pharmacology", Genes to Society Course, Johns Hopkins School of Medicine
- 10/2020 Speaker, "Headache in Pediatric Patients", Management of Chronic Pain in Children and Adolescent, Johns Hopkins Medicine and Kennedy Krieger Institute (converted to virtual)
- 10/2020 Speaker, "Neurology Update", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital (converted to virtual)
- 1/2021 Speaker, "Anti-CGRP Antibodies and Molecules in Pediatrics ... Why Not", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital (converted to virtual)
- 4/2021 Speaker, "Headaches in Pediatric Patients", Pediatric Anesthesia Fellowship Lecture Series, Johns Hopkins Hospital (converted to virtual)
- 5/2021 Speaker, "Negotiations", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 5/2021 Speaker, "Career Networking", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 5/2021 Speaker, "Migraine: From Pathophysiology to Treatment", Genes to Society Course, Johns Hopkins School of Medicine (converted to virtual)
- 5/2022 Speaker, "Migraine: From Pathophysiology to Treatment", Genes to Society Course, Johns Hopkins School of Medicine
- 6/2022 Speaker, "Negotiations", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 6/2022 Speaker, "Career Networking", Neurology Residents Noon Conference, Johns Hopkins Hospital
- 3/2023 Speaker, "Devices and Procedures in Pediatric Headaches", Pediatric Neurology Grand Rounds, Johns Hopkins Hospital
- 5/2023 Speaker, "Pediatric Headaches: Mimickers, Red Flags, and Atypical Presentations", Pediatric Emergency Medicine Fellowship Conference, Johns Hopkins Hospital (virtual)

- 5/2023 Speaker, "Pediatric Headaches: Goals of Treatment", Pediatric Emergency Medicine Fellowship Conference, Johns Hopkins Hospital (virtual)
- 6/2023 Speaker, "Updates in Pediatric Headache", Adolescent Medicine Grand Rounds, Johns Hopkins Hospital (virtual)
- 10/2024 Speaker, "Pediatric Headache", Pediatrics for the Practitioner Conference, Johns Hopkins Hospital

National

- 4/2013 Speaker, "Pediatric Headache", Golisano Children's Hospital of Southwest Florida Annual Pediatric Conference, Sanibel, Island, FL
- 8/2013 Speaker, "Pediatric Headache", Pediatrics Grand Rounds, All Children's Hospital, Tampa, FL
- 11/2013 Speaker, "Pediatric Headache", Holy Name Headache Symposium, Teaneck, NJ
- 2/2014 Speaker, "Pediatric Epilepsy and Migraine Overlap", 16th Annual Pediatric Epilepsy Symposium, Asheville, NC
- 12/2014 Speaker, "Pediatric Epilepsy and Migraine Overlap", American Epilepsy Society: Pediatric Epilepsy Symposiums, Seattle, WA
- 12/2014 Speaker, "Pediatric Headache", Pediatric Grand Rounds, Children's Hospital of the King's Daughters, Norfolk, VA
- 12/2014 Speaker, "Approach to Ataxia for the General Pediatrician", Pediatric Residents Noon Conference, Children's Hospital of the King's Daughters, Norfolk, VA
- 3/2015 Speaker, "Pediatric Epilepsy and Migraine Overlap", Neurology Grand Rounds, Wake Forest University, Winston-Salem, NC
- 5/2015 Speaker, "Pediatric Headache: A Pandora's Box", Clinical Neuroscience Conference, Children's Hospital of Philadelphia, Philadelphia, PA
- 9/2016 Speaker, "Pediatric Headache", Children's Hospital of the King's Daughters Annual Pediatric Conference, Williamsburg, VA
- 11/2016 Speaker, "Migraine App Review", American Headache Society Scottsdale Clinical Meeting, Pediatric and Adolescent SIG, Scottsdale, AZ
- 6/2017 Speaker, "Technology and Devices in Pediatric Headache", American Headache Society Scientific Meeting, Boston, MA
- 9/2017 Speaker, "Brain Pain: Migraine and Their Variants", American Academy of Pediatrics Annual Meeting, Chicago, IL
- 11/2017 Speaker, "Technology and Devices Overview in Pediatric Headache", American Headache Society Scottsdale Clinical Meeting, Pediatric and Adolescent SIG, Scottsdale, AZ
- 8/2018 Speaker, "Brain Pain: Pediatric Migraine", El Paso Children's Hospital, Pediatric Grand Rounds, Texas Tech University, El Paso, TX
- 8/2018 Speaker, "Pediatric Headache Variants", Pediatric Resident Noon Conference, Texas Tech University, El Paso, TX
- 9/2018 Speaker, "Dysautonomia and Migraine in the Pediatric Patient", Southern Headache Society Annual Meeting, Asheville, NC
- 10/2018 Speaker, "Meet the Experts Discussion Panel", Child Neurology Society Annual Meeting, Chicago, IL
- 10/2018 Speaker, "Pro for Use of CGRP Treatments in Pediatric Headache Patients", Child Neurology Society Annual Meeting, Headache SIG, Chicago, IL
- 9/2019 Moderator, Main Plenary and Key Note Address, Southern Headache Society Annual Meeting, Nashville, TN
- 9/2019 Moderator, Headache in Special Populations, Southern Headache Society Annual Meeting, Nashville, TN
- 10/2019 Speaker, "Chronic Headaches and Medical Failures", Pediatric Brain Symposium, St. Petersburg, FL
- 10/2019 Speaker, "An Update in Treatment of Pediatric Migraine: The New Guidelines", Child Neurology Society Annual Meeting, Headache SIG, Charlotte, NC
- 10/2019 Speaker, "Pain in my Brain! Management of Migraines and Other Headaches", American Academy of Pediatrics Annual Meeting, New Orleans, LA
- 3/2020 Speaker, "Pediatric Migraine: An Update", Headache Symposium, Providence, RI (rescheduled to fall 2020 with virtual meeting due to Covid-19)
- 6/2020 Speaker, "Update on Pediatric Headaches and Migraines", Pediatrics by the Sea, Georgia AAP, Amelia Island, FL (cancelled due to Covid-19)
- 6/2020 Speaker, "Management of Pediatric Seizures", Pediatrics by the Sea, Georgia AAP, Amelia Island, FL (cancelled due to Covid-19)
- 10/2020 Speaker, "Pediatric Headache in 2020", Southern Headache Society Annual Meeting, Asheville, NC / virtual (hybrid)
- 10/2020 Moderator, Plenary session, Southern Headache Society Annual Meeting, Asheville, NC / virtual (hybrid)
- 10/2020 Speaker, "Headache Management in Primary Care", American Academy of Pediatrics Annual Meeting, San Diego, CA (converted to virtual)

- 10/2020 Speaker, "Neuromodulation for Migraine: What is the role for devices in the treatment of childhood migraine?", Child Neurology Society Annual Meeting, San Diego, CA (converted to virtual)
- 11/2020 Keynote Speaker, "Updates in Migraine Management", Pediatric Brain Symposium, St. Petersburg, FL (converted to virtual)
- 10/2021 Speaker, "Crossroads Between Epilepsy and Migraine: Shared Opportunity for Treatment", Southern Headache Society Annual Meeting, virtual
- 10/2021 Speaker, "Doctor, my head hurts: A practical approach to pediatric headaches", American Academy of Pediatrics Annual Meeting, Philadelphia, PA (converted to virtual)
- 6/2022 Speaker, "Update on Pediatric Headaches and Migraines", Pediatrics By the Sea / Georgia AAP Annual Meeting, Amelia Island, FL
- 6/2022 Speaker, "Management of Pediatric Seizures", Pediatrics By the Sea / Georgia AAP Annual Meeting, Amelia Island, FL
- 9/2022 Speaker, "Pediatric Headaches: What I Want My Colleagues to Know", Southern Headache Society Annual Meeting, Asheville, NC
- 9/2022 Moderator, Plenary session, Southern Headache Society Annual Meeting, Asheville, NC
- 11/2022 Speaker, "POTS: Dizzy and Lightheaded, Headache's Pandora's Box", American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 11/2022 Moderator, Plenary session, American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 2/2023 Speaker, "Update on Pediatric Headaches and Migraines", Columbus Pediatric Grand Rounds, Mercer University, Atlanta, GA (virtual)
- 3/2023 Speaker, "Management of Pediatric Seizures", Columbus Pediatric Grand Rounds, Mercer University, Atlanta, GA (virtual)
- 4/2023 Speaker, "Crossroads Between Seizures and Headaches: Shared Opportunity for Treatment", American Academy of Neurology Annual Meeting, Boston, MA
- 9/2023 Speaker, "Pediatric Headache's Pandora's Box", Seattle Children's Hospital, Pediatric Neurology Grand Rounds, University of Washington, Seattle, WA (virtual)
- 10/2023 Speaker, "Post-traumatic Dysautonomia", Southern Headache Society Annual Meeting, Charlotte, NC
- 10/2023 Moderator, Plenary session, Southern Headache Society Annual Meeting, Charlotte, NC
- 10/2023 Speaker, "Headache Management: A Primer for the Pediatrician", American Academy of Pediatrics Annual Meeting, Washington, DC
- 11/2023 Moderator, Plenary session, American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 11/2023 Speaker, "Why Blood Matters", American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 9/2024 Speaker, "Practical Approach to POTS", Southern Headache Society Annual Meeting, Louisville, KY
- 9/2024 Moderator, Plenary session, Southern Headache Society Annual Meeting, Louisville, KY
- 11/2024 Speaker, "Clinical Experience with Neuromodulation in Children and Adolescents", American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ
- 11/2024 Moderator, Plenary session, American Headache Society Annual Scottsdale Headache Symposium, Scottsdale, AZ

International

- 3/2016 Speaker, "Head Injury and Concussion: What's New", Caribbean Pediatric Neurology Conference, International Child Neurology Association, Barbados
- 3/2016 Speaker, "Pediatric Headache: When Should We Worry", Caribbean Pediatric Neurology Conference, International Child Neurology Association, Barbados
- 3/2016 Speaker, "Sickle Cell Disease: Neurological Complications", Caribbean Pediatric Neurology Conference, International Child Neurology Association, Barbados
- 4/2016 World Migraine Summit, Pediatric Migraine Video Interview and Information Session, Australia
- 10/2016 Speaker, "Pediatric Headache Alternative Treatment Options", Child Neurology Society Annual Meeting, Vancouver, BC, Canada
- 9/2019 Speaker, "What's New in the World of Pediatric Headache", Grand Rounds, Johns Hopkins Aramco Hospital, Dhahran, Saudi Arabia
- 9/2019 Speaker, "Hospital Based Approach to the Treatment of Headache Patients", Hospitalist Conference, Johns Hopkins Aramco Hospital, Dhahran, Saudi Arabia
- 9/2019 Speaker, "Inpatient Management of Pediatric Headache Patients", Pediatric Nursing Seminar, Johns Hopkins Aramco Hospital, Dhahran, Saudi Arabia
- 9/2019 Speaker, "Pediatric Neurology Inpatient Emergencies and Management", Pediatric Nursing Seminar, Johns Hopkins Aramco Hospital, Dhahran, Saudi Arabia

- 9/2019 Speaker, “Epilepsy and Migraine: Shared Conditions ... Shared Opportunity for Treatment”, Neurology Conference, Johns Hopkins Aramco Hospital, Dhahran, Saudi Arabia
- 9/2019 Speaker, “Brain Pain – What’s New in Concussion”, Community Outreach Lecture Series, Al-Khobar, Saudi Arabia
- 9/2019 Speaker, “When a Migraine Isn't a Migraine: Precursors and Acephalgic Variants”, General Pediatrics Conference, Johns Hopkins Aramco Hospital, Dhahran, Saudi Arabia
- 9/2019 Speaker, “Headache's Pandora's Box: Dizziness and Dysautonomia”, Neurology Grand Rounds, King Fahad Specialist Hospital, Dammam, Saudi Arabia
- 10/2020 Speaker, “Neuromodulation for Migraine: What is the role for devices in the treatment of childhood migraine?”, International Child Neurology Association Annual Meeting, converted to virtual
- 1/2023 Speaker, “Hot Topics in Pediatric Headache Medicine: Dysautonomia and Headache”, International Pediatric Medicine Didactic Series

Visiting Professorships

- 9/2019 Johns Hopkins Aramco Hospital and King Fahad Specialist Hospital, Dhahran and Dammam, Saudi Arabia

OTHER PROFESSIONAL ACCOMPLISHMENTS *(Optional)*

Posters

Oral/Podium Presentations [abstracts that were both presented orally and published]