

**CHRISTINA L. VAUGHAN, MD**  
[christina.vaughan@CUAnschutz.edu](mailto:christina.vaughan@CUAnschutz.edu)

### CURRICULUM VITAE

#### Academic Address

Academic Office 1  
 12631 East 17th Avenue, MS-B185  
 Aurora, CO 80045  
 phone: 303-724-2194  
 fax: 303-724-2212

#### Clinic Address

Anschutz Cancer Pavilion  
 1665 Aurora Court, Floor 2  
 Aurora, CO 80045  
 phone: 720-848-9264  
 fax: 720-848-2106

#### **EDUCATION**

1997 B.S. in Neuroscience, University of Rochester, Rochester, NY  
 1998 Pre-IRTA Research Fellow, National Institutes of Health (NINDS), Bethesda, MD  
 2000 M.H.S. in Mental Hygiene, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD  
 2006 M.D., State University of New York at Buffalo School of Medicine and Biomedical Sciences, Buffalo, NY  
 2006-2007 Intern in Internal Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA  
 2007-2009 Resident in Neurology, University of Pittsburgh Medical Center, Pittsburgh, PA  
 2009-2010 Chief Resident in Neurology, University of Pittsburgh Medical Center, Pittsburgh, PA  
 2010-2012 Fellow, Parkinson's Disease and Movement Disorders Program, Rush University Medical Center, Chicago, IL  
 2012 M.S. in Clinical Research, Rush University Graduate College, Chicago, IL  
 2016-2017 Fellow, Hospice and Palliative Medicine Program University California, San Diego (UCSD)/Scripps Health, San Diego, CA

#### **FACULTY APPOINTMENTS**

2011-2012 Instructor in Neurology, Rush University Medical Center, Chicago, IL  
 2012-2016 Assistant Professor in Neurology, Medical University of South Carolina, Charleston, SC  
 2012-2016 Associate Program Director, Movement Disorders Program, Medical University of South Carolina, Charleston, SC  
 2014-2015 Residency Associate Program Director, Department of Neurology, Medical University of South Carolina, Charleston, SC  
 2014-2016 Staff Neurologist, Ralph H. Johnson VA Medical Center, Charleston, SC  
 2015-2016 Director, Fellowship in Movement Disorders, Medical University of South Carolina, Charleston, SC  
 2017-2019 Assistant Professor in Neurology, University of Colorado School of Medicine, Denver, CO  
 2017-2019 Assistant Professor in Medicine, University of Colorado School of Medicine, Denver, CO  
 2019-Present Associate Professor in Neurology, University of Colorado School of Medicine, Denver, CO  
 2019-Present Chief, Section of Neuro-palliative Care, Department of Neurology, University of Colorado School of Medicine, Denver, CO  
 2019-Present Associate Professor in Medicine, University of Colorado School of Medicine, Denver, CO  
 2019-Present Staff Neurologist, VA Eastern Colorado Health Care System

#### **HONORS, SPECIAL REGOGNITIONS, AWARDS**

1999 American Parkinson's Disease Association Summer Medical Student Fellowship

2002	Parkinson's Disease Foundation Summer Medical Student Fellowship
2010	American Academy of Neurology Resident Scholarship to the Annual Meeting
2010	Allergan Pharmaceuticals Movement Disorder Fellow Award
2011	MDS Travel Grant Recipient for the 15th International Congress of Parkinson's Disease and Movement Disorders
2011-2012	Hussein Family Fellow Award, Rush University Medical Center
2012	Selected and funded to attend the 2012 Parkinson's Action Network (PAN) Leadership Forum and presented poster at Postdoctoral Investigator Poster Session
2012	MDS Travel Grant Recipient for the 16th International Congress of Parkinson's Disease and Movement Disorders
2012	American Academy of Neurology Institute's (AANI) 2012 Annual Meeting Fellow Scholarship recipient
2014	PAIR Leadership Award 2014 from Parkinson's Disease Foundation
2015	Annual Neurology Faculty Excellence in Teaching Award, Department of Neurology, Medical University of South Carolina
2016-2017	Violet McKinney Endowment Fellowship, Scripps Mercy Hospital and UCSD

### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

2016-present	American Academy of Hospice and Palliative Medicine
2010-present	International Parkinson and Movement Disorder Society
2007-present	American Academy of Neurology

### **MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES**

2010-2016	Medical Advisor for Parkinson's Disease Foundation (PDF)
2011-2012	Associate Faculty Member for Faculty of 1000: Post-publication Peer Review
2011-2012	Faculty Member for NeuroPI: Parkinson's Disease project 2, American Academy of Neurology (AAN)
2014-2016	Residency Review Committee, Medical University of South Carolina
2017-present	Medical Aid in Dying Navigator committee, UC Health
2017-2022	Clinical Affairs committee, Department of Neurology
2018-present	Palliative Care Clinical Competency Committee and Residency Review Committee
2020-present	Ambulatory Advance Care Planning Champions Committee, UC Health

### **LICENSURE AND BOARD CERTIFICATION**

2010-present	American Board of Psychiatry and Neurology, Certificate #56570
2017-present	State of Colorado Medical License
2020-present	Hospice and Palliative Medicine Board, Certificate #160

### **INVITED EXTRAMURAL LECTURES, PRESENTATIONS, AND VISITING PROFESSORSHIPS**

#### **National/International**

- "Neuropalliative care for people with epilepsy and other chronic neurological conditions," within Investigators' Workshop entitled "When Epilepsy Treatments Fail: Palliative and Rehabilitative Approaches," American Epilepsy Society (AES) annual meeting, Orlando, FL, December 2, 2023.
- "HD Care Session: Medical Assistance in Dying", Huntington's Study Group Annual meeting, Phoenix, AZ, November 2, 2023.
- Visiting Professorship: University of North Carolina (UNC-Chapel Hill) Geriatrics and Palliative Care, July 25-26, 2023. Presentation for Comprehensive Cancer Support Program (CCSP) and the UNC Palliative Care Program Grand Rounds, "Palliative care in Neurology," Chapel Hill, NC, July 26, 2023.

- “History of Palliative Care in Parkinson disease,” Cleveland Clinic PD Grand Rounds, Parkinson’s Disease and Movement Disorders Lecture Series, July 18, 2023.
- “Collaboration and Partnership with Hospice and Palliative Care,” Parkinson’s Foundation Town Hall, June 7, 2023.
- “Roadmap to Care: Planning for Your Loved-one's Needs at Each Stage of the Disease,” Parkinson & Movement Disorder Alliance (virtual presentation), October 19, 2022.
- “Losing Someone That Is Still Here,” World Parkinson Coalition Care Partner Virtual Panel 3 (virtual, co-presentation), September 8, 2022:  
<https://www.worldpdcoalition.org/page/3rdcarepartner>
- “The Unique Palliative Care Needs of Those Living with Serious Neurologic Disease: Neuropalliative Care,” Neuroscience Grand Rounds, Mayo Clinic Scottsdale, Arizona (virtual), April 25, 2022.
- “Neuropalliative Care for Movement Disorders,” Parkinson’s and Movement Disorders Center Education Conference Series, Virginia Commonwealth University (virtual), March 23, 2022.
- “Do’s, Don’ts, and Dopa: A Primer on Palliative Care in Parkinson’s Disease,” (TH152) American Academy of Hospice and Palliative Medicine 2022 Annual Assembly (virtual, co-presented), February 11, 2022 <https://doi.org/10.1016/j.jpainsymman.2022.02.231>
- “Parkinson's Disease Personified: Patient and Caregiver Perspectives on Palliative Care,” (TH158) American Academy of Hospice and Palliative Medicine 2022 Annual Assembly (virtual), February 2022 (pre-recorded, co-presented):  
<https://doi.org/10.1016/j.jpainsymman.2022.02.236>
- “The Unique Palliative Care Needs of Those with Serious Neurologic Disease: Neuro-Palliative Care,” University of California San Diego Geriatrics, Gerontology, and Palliative Care Grand Rounds, December 7, 2021.
- “The Role of Neuropalliative Care in FTD,” The Association for Frontotemporal Degeneration (AFTD) educational webinar, September 17, 2021.
- “Palliative Approach to Pain Management in Parkinson Disease,” Parkinson’s Foundation project, *Implementing Team-Based Outpatient Palliative Care in Parkinson’s Foundation Centers of Excellence* [recorded April, 2021].
- “Neuro-palliative Care – A new and growing field within neurology,” Department of Neurology Grand Rounds, Medical University of South Carolina, March 25, 2021.
- American Academy of Neurology NeuroBytes “Understanding the Experience of Pain: A Neuro-Palliative Approach”, co-created with R Crandall. Fall, 2020.
- American Academy of Neurology NeuroBytes “Discussing Goals of Care in Neurodegenerative Disease: A Palliative Approach”, co-created with P Glasheen. Fall, 2020.
- “Cannabis and Parkinson’s Disease,” Michael J Fox Foundation Cannabis Workshop Summer 2020, virtual, June 25, 2020.
- “Living Well with Ataxia: A Palliative Care Approach,” National Ataxia Foundation webinar, in lieu of annual meeting, June 4, 2020.
- “Living Well with Parkinson Disease through Palliative Care,” 2020 INSIGHT Into Parkinson’s Future Frontiers Global Conference, virtual, April 3, 2020.
- “Parkinson disease: the quintessential multidisciplinary rehabilitation diagnosis,” clinical symposium (1204) at the American Academy of Physical Medicine and Rehabilitation Annual Assembly, San Antonio, TX, November 15, 2019.
- “The History of Encephalitis Lethargica,” History of Neurology: The History of Neurologic Disease from Cortex to Peripheral Nerve (C107) course, American Academy of Neurology, Washington, D.C., April 22, 2015.
- “Dystonia in *FMRI* premutation carriers,” American Academy of Neurology, New Orleans, April 2012 and Movement Disorders Society, Dublin, Ireland, June 2012 [posters].

- “Executive function correlates with axial signs as detected by the MDS-UPDRS” American Academy of Neurology, Hawaii, April 2011, Movement Disorders Society, Toronto, Canada, June 2011, and PAN Leadership Forum Postdoctoral Investigator Poster Session, February 2012 [posters].
- “Examinations for Movement Disorders,” History of Neurology: The Origins of the Neurological Examination (4PC.002) course, American Academy of Neurology, New Orleans, April 24, 2012.
- “Films from the Movement Disorders Society Archives,” Archival Neurologic Films (3SM.005) course, American Academy of Neurology, New Orleans, April 23, 2012.
- “Selective saccadic palsy after cardiac surgery,” American Academy of Neurology, Unusual Movement Disorders program, Seattle, April 30, 2009.

### Regional

- “History of Palliative Care in Parkinson Disease,” Cleveland Clinic Wellbeing & Wellness Series: Wellness and Parkinson’s Disease, virtual presentation March 16, 2023.
- “Medical Aid in Dying for ALS: Navigating Complexities from Prognosis to Ingestion,” co-presenter, NCCMAID Conference, Portland, OR, February 17, 2023.
- “Palliative & Supportive Care,” 8th Annual Parkinson Disease Symposium, University of Colorado, Aurora, CO, September 25, 2021.
- “Medical Aid in Dying,” 2020 Ask the Experts Symposium, The ALS Association Rocky Mountain Chapter, October 11, 2020.
- “Advanced Therapies and Neuropalliative Care,” Lunch with Docs, Parkinson and Movement Disorder Alliance, July 29, 2020.
- “Mindfulness and Parkinson’s Disease,” e3 Conference, Parkinson’s Association of the Rockies, September 7, 2019.
- “Art of Living Well: Improving Quality of Life in HD through Supportive Care,” Huntington’s Disease Care and Research Conference, University of Colorado, Denver, CO, May 4, 2019.
- “Cannabis and Complementary Therapies and Parkinson’s Disease,” Parkinson’s Foundation Georgia educational event, Marcus Jewish Community Center of Atlanta, GA, April 15, 2019.
- “Self-Image and Coping with Parkinson’s Disease,” 4th Annual Parkinson Disease Symposium, University of Colorado Denver, Movement Disorders Center, Denver, CO, September 30, 2017.
- “Overview of Parkinson Disease,” Advanced Practice Registered Nurse (APRN) Primary Care Update, Ralph H. Johnson VA Medical Center, Charleston, SC, April 29, 2016.
- “Care of the Patient with Advanced Parkinson’s Disease,” South Carolina Neurological Association (SCNA) Annual Meeting, Charleston, SC, February 27, 2016.
- “Chorea and Dystonia,” Rock the MOC! Neurology Maintenance of Certification Board Review Course, Medical University of South Carolina, Charleston, SC, November 20, 2015.
- “Not Just a Movement Disorder – Exploring the Non-motor Features of Parkinson’s Disease,” Symposium on Living with Parkinson’s Disease, Medical University of South Carolina, Charleston, SC, November 7, 2015.
- “Parkinson Disease and Its Effect on the Whole Person: A Growing Medical Problem” and “Utilizing Technology to Facilitate Research and Access to More Specialized Care: Telemedicine” - Parkinson’s Disease Southern Symposium, Spartanburg, SC, November 13, 2014.
- “Dystonia and Dyskinesias: Diagnosis and Management,” Annual Neurology Update for the Primary Care Provider, Medical University of South Carolina, Charleston, SC, September 7, 2013.
- “Non-Motor Symptoms of Parkinson’s Disease,” Clinical Pearls in Movement Disorders for Clinicians, Medical University of South Carolina, Charleston, SC, November 3, 2012.

**Local**

- “Palliative and spiritual care in HD and practical solutions for caregivers,” Huntington’s Disease Center of Excellence patient education day (HDSA), University of Colorado Movement Disorders Center, October 21, 2023.
- “Neuropalliative Care: Navigating Decisions about Life and Death with Case Examples,” Department of Neurology Grand Rounds, University of Colorado, October 4, 2023.
- “Palliative Care in Movement Disorders,” Grand Rounds CU Anschutz Division of Geriatric Medicine and VA Eastern Colorado GRECC, September 23, 2023.
- “VSED: Voluntary Stopping of Eating & Drinking Exploration via a Case Study,” Palliative Care Grand Rounds, University of Colorado, Anschutz, September 19, 2023.
- “Supportive Care in HD: It’s Here, Now What?” Annual Rocky Mountain Huntington's Disease Family Education Day, HDSA Center of Excellence at the University of Colorado Movement Disorders Center, Aurora, CO, November 13, 2021.
- “Introduction to Neuropalliative Care,” Parkinson Foundation University of Colorado Center of Excellence, September 17, 2021.
- “Assessing Capacity When Its Hard,” Palliative Care Grand Rounds, University of Colorado, May 18, 2021 (co-presented with Laura Foster, MD).
- “Neuropalliative care and the COVID-19 Crisis,” Department of Neurology Grand Rounds, University of Colorado, April 22, 2020.
- “Palliative Approach to Pain Management in Neurologic Disease,” Department of Neurology Grand Rounds, University of Colorado, February 21, 2018.
- “Palliative Care and Movement Disorders,” Movement Disorders Section Rounds, University of Colorado, September 13, 2017.
- “History of Encephalitis Lethargica: Sleepy Sickness to Awakenings,” Department of Neurology Grand Rounds, Medical University of South Carolina, March 26, 2015.
- “Huntington Disease: Overview and Update,” Department of Neurosciences Grand Rounds, Medical University of South Carolina, August 23, 2012.
- “Beyond the Movements, ‘Beyond the Mind’: Psychosis in Parkinsonism,” Neurology Grand Rounds, University of Pittsburgh Medical Center, April 21, 2010.

**Trainee Lectures**

- “Movement Disorders in Palliative care,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, April 17, 2023.
- “Parkinson disease,” Rocky Mountain Regional VA Medical Center Geriatrics Fellowship Conference, Aurora, CO, November 12, 2021, September 22, 2023.
- “Navigating MAID Conversations,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, May 3, 2021.
- “Neuro-palliative Clinic Primer,” University of Colorado Hospital Chaplain residency lecture, Aurora, CO, September 29, 2020; September 16, 2021.
- “Management of Behavioral Issues in Dementia,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, May 26, 2020.
- “Neuro-prognostication,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, March 10, 2020, March 20, 2023.
- “*Get Out!* Exposure to Nature Improves Multiple Psychological Factors,” University of Colorado Palliative Medicine fellowship lecture, Leadville, CO, September 16, 2019.
- “Parkinsonism and Palliative Care,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, June 10, 2019.

- “Huntington Disease and Palliative Care,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, March 26, 2019’ June 22, 2020.
- “Shared Decision Making” Group Session for 4<sup>th</sup> year medical students, University of Colorado School of Medicine, Aurora, CO, March 5th, 2019.
- “Behavioral Issues in Dementia,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, February 5, 2019.
- “Neurologic Prognosis after Cardiac Arrest – the conversation,” University of Colorado Neurology residency lecture, Aurora, CO, January 9, 2019.
- “Caregiver support in neurologic disease,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, October 22, 2018, August 18, 2020.
- “Chronic pain management in neurologic disease,” University of Colorado Neurology residency lecture, Aurora, CO, May 16, 2018.
- “Goals of care and advance care directives in neurologic disease,” University of Colorado Neurology residency lecture, Aurora, CO, May 16, 2018.
- “Overview of neuro-palliative Care,” Rocky Vista University Student Interest Group in Neurology, Parker, CO, March 21, 2018.
- Neurology medical student clerkship Problem Based Learning sessions, University of Colorado, Aurora, CO: 11/1/17, 12/6/17, 1/10/18, 1/24/18, 1/31/18, 2/7/18, 2/28/18, 3/7/18, 6/20/18, 7/11/18, 7/25/18, 10/3/18.
- “Pseudobulbar affect,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, November 21, 2017 and April 1, 2019.
- “Delirium,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, October 10, 2017, December 3, 2018, October 15, 2019, October 20, 2020.
- “Abnormal Motor Movements in Palliative Care and Hospice Settings,” University of Colorado Palliative Medicine fellowship lecture, Aurora, CO, October 3, 2017, February 4, 2019, June 16, 2020, May 4, 2021.
- “Lewy Body Disease,” Geriatric Psychiatry fellowship lecture, Medical University of South Carolina, January 11, 2016.
- “Cortex and Cerebellum,” medical student lecture, Medical University of South Carolina, May 12, 2015.
- “Gilles de la Tourette syndrome and Tics,” medical student lecture, Medical University of South Carolina, March 12, 2015 and March 3, 2016.
- “Movement Disorders Emergencies,” Neurology resident lecture, Medical University of South Carolina, June 6, 2014; July 23, 2015.
- “Overview of Botulinum toxin use in Movement Disorders” Neurology resident lecture, Medical University of South Carolina, May 9, 2014.
- “Parkinson Disease: Clinical,” Graduate Neuroscience course (NSC735), Medical University of South Carolina, October 24, 2012, October 18, 2013, October 17, 2014, October 28, 2015.
- “Metabolic, Endocrine, and Nutritional Causes of Movement Disorders,” Neurology resident lecture, Medical University of South Carolina, February 18, 2014.
- “Dystonia and Dyskinesia,” Neurology resident lecture, Medical University of South Carolina. October 2, 2013.
- “Ataxia,” Neurology resident lecture, Medical University of South Carolina, October 1, 2013 and March 23, 2016.
- “Atypical Parkinsonism,” Neurology resident lecture, Medical University of South Carolina, September 30, 2013.

## TEACHING RECORD

Dr. Vaughan teaches palliative care and movement disorders to many groups, from local patients and their families to other neurologists and palliative care specialists locally and nationally. Specific teaching activities have included:

- American Academy of Neurology (AAN) NeuroBytes Faculty (2020): “Maximizing quality of life in neurodegenerative disease: a palliative approach” and “Palliative approach to pain management in neurologic disease.”
- Neuro-palliative care clinic attending (2017-present): teaching medical students, neurology and other residents, movement disorders fellows: 5 half-day clinics/week.
- Inpatient palliative care service attending (2018-present): teaching medical students, medicine and other residents: approximately two weeks (14 days) per month.
- Course Director (2018-present) for Neuro-palliative care block within PALC6310: Advanced Illness in Special Settings, Interprofessional Graduate Certificate and Master of Science Degree in Palliative Care, University of Colorado at Denver, Graduate School.
- Inpatient neurology ward attending (2012-2014) at the Medical University of South Carolina: supervision and bedside teaching of neurology residents (approximately 3 weeks per year) and medical students and overnight staffing (approximately 2 nights per month) by telephone of new admissions and hospital consults with neurology residents.
- Inpatient neurology ward attending (2012-2014) at the Ralph H. Johnson VA Medical Center: supervision and bedside teaching of neurology residents and medical students, approximately 6 weeks per year.
- Supervised movement disorders fellow in weekly continuity and botulinum clinics at Ralph H. Johnson VA Medical Center (2015-2016), 4 hours per week.
- Served as Neurology Residency Associate Program (2014-2015) and as Fellowship Director for the Movement Disorders fellowship (2015-2016) Medical University of South Carolina.
- Publications: as listed in this CV, teaching trainees in neurology, palliative care, and the emerging field of neuro-palliative care.
- Lay literature publications and lectures: most often for Parkinson’s Disease support groups such as Parkinson Association of the Rockies.
- Formal lectures: Dr. Vaughan has given many lectures at the universities where she has trained and worked as well as regionally and nationally.
- Dr. Vaughan has especially enjoyed opportunities to teach trainees in Neurology and has mentored multiple residents and medical students. She won the annual Neurology Faculty Excellence in Teaching Award (2015) at the Medical University of South Carolina. She has given multiple lectures to the medical students on rotation in Neurology at University of Colorado through the Problem Based Learning curriculum.
- Faculty advisor for Student Interest Group in Neurology (SIGN), Medical University of South Carolina College of Medicine, 2014-16.

### **Mentoring Record**

- Post-doctoral:
  - Anupama Kale, MD (2015-2016), Movement Disorders fellowship mentor
  - Lauren Treat, MD (2018-2019), Palliative Medicine fellowship mentor
  - Summer Schultz, MD (2021-2022), Palliative Medicine fellowship mentor
  - Jason Lambden, MD (2022-2023), Palliative Medicine fellowship mentor
  - Antonia Pusso, MD (2023-), Palliative Medicine fellowship mentor
- Residents:
  - Karen Karwa, MD (2013-2015)
  - Munazza Ahmed, MD (2013-2015)
  - Jessica Hannah, MD (2013-2015)
  - Ryan Barmore, MD (2014-2016)

- Alain Lekoubou Looti, MD (2015-2016)
- Guttalu Kumaraswamy, MD (2015-2016)
- Farhat Shireen, MD (2015-2016)
- Joshua Brown, MD, PhD (2015-2016)
- Tracy Chang, MD (2018-2020)
- Ross Crandall (2019-2023)
- Luke Smith (2023-present)
- Medical Students :
  - Paul Glasheen (2018-2022), Foundations of Doctoring Program
  - Ross Crandall (2018-2019), Foundations of Doctoring Program
  - Amelia Drumm (2020), Foundations of Doctoring Program

## COMMUNITY SERVICE

- “Considerations for the Hospitalized PD Patient,” Rush University Medical Center Parkinson’s Disease Support Group, Chicago, Illinois, 2011.
- “Driving and Parkinson’s Disease,” Rush University Medical Center Parkinson’s Disease Newsletter, winter 2011.
- “YOPD: Select Topics,” DuPage Young Onset Parkinson’s Disease Support Group, DuPage County, IL, 11/28/2011.
- Discussion about Driving, Falls, and Mood in Parkinson’s Disease – 2 interviewed segments on local radio program, “Time for Seniors and Their Families,” Charleston, SC, 9/5/2012.
- “A Discussion About Parkinson’s Disease Medications and Exercise,” Charleston Parkinson’s Disease Support Group, Charleston, SC, 9/9/2012.
- “Care-giving and Parkinson’s Disease,” “Non-motor symptoms of Parkinson’s Disease,” and “Exercise and Parkinson’s Disease,” Symposium: Living with Parkinson’s Disease, Medical University of South Carolina, Charleston, SC, 11/3/2012.
- “Non-motor symptoms of Parkinson’s Disease” and “Exercise and Parkinson’s Disease,” Parkinson’s Disease Forum Beaufort County Parkinson’s Support Groups, SC, 1/19/2013.
- “Parkinson’s Disease and Care-giving,” Myrtle Beach chapter of the Parkinson’s Disease Groups of the Carolinas, 5/9/2013.
- “Parkinson’s Disease and Care-giving,” Charleston Parkinson’s Disease Support Group, Charleston, SC, 7/14/2013.
- “Non-motor symptoms of Parkinson’s Disease,” Columbia Parkinson’s Support Group, Columbia, SC, 10/20/2013.
- “Pain in Parkinson’s Disease,” Charleston Parkinson’s Disease Support Group, Charleston, SC, 3/9/2014.
- “Advanced Parkinson’s Disease,” Medical University of South Carolina PD Symposium: Living with Parkinson’s Disease, Charleston, SC, 3/29/2014.
- “Sleep Disorders in Parkinson Disease,” Myrtle Beach Parkinson’s Disease Support Group, SC, 6/12/2014.
- “Brief Topics in Parkinson Disease,” Myrtle Beach Parkinson’s Disease Support Group, SC, 6/18/2014.
- “Thinking and Memory Problems in Parkinson’s Disease,” Murrell’s Inlet Parkinson’s Disease Support Group, SC, 11/12/15.
- “Mimics of Parkinson Disease,” Charleston Parkinson’s Disease Support Group, Charleston, SC, 2/14/16.
- “Neuro-palliative care,” Posterior Cortical Atrophy Support Group Meeting, University of Colorado School of Medicine, Aurora, CO, 8/17/17.
- “Parkinson’s Disease, Overview of: Complementary and Alternative Medicine And Involvement of the Gut,” Broomfield Parkinson’s Disease Support Group, CO, 9/5/17.



- “Everything you ever wanted to know about Parkinson’s Disease but were afraid to ask,” Parkinson’s Association of the Rockies, Longmont PD Support Group, 11/9/17.
- “Select Neurologic Topics in Palliative Care/Hospice,” Halcyon Hospice and Palliative Care 1/24/18.
- “Complementary and Alternative Medicine and Parkinson Disease,” PD SELF support group, Erie, CO 6/8/18.
- “Everything you ever wanted to know about Parkinson’s Disease but were afraid to ask,” Longmont Parkinson Disease Support Group, CO, 6/13/18.
- “Chat with the Parkinson’s Pros – Non-motor Symptoms of Parkinson’s Disease,” Parkinson’s Association of the Rockies, Grand Junction, CO, 10/6/18.
- Parkinson’s Disease Specialist panel, Boulder PD Support Group, Boulder, CO, 10/23/18.
- “Palliative Care and Multiple Sclerosis” webinar with the Rocky Mountain MS Center, Aurora, CO 1/29/19. <https://www.mscenter.org/education/seminars-workshops/webinars/844-webinar-progressive-ms-and-palliative-care>
- “Cannabis and Complementary Therapies and Parkinson’s Disease,” Colorado Springs Young Onset Parkinson’s Disease Support Group, Lone Tree, CO, 5/23/19.
- “What is Neuro-palliative Care?” Posterior Cortical Atrophy (PCA) Support Group, Aurora, CO, 6/19/19.
- “What is Neuro-palliative Care?” King Adult Day Enrichment Program (KADEP), Westminster, CO, 7/9/19.
- “Non-motor symptoms of Parkinson’s disease- Chat with the Parkinson’s Pros,” Parkinson’s Association of the Rockies, Greeley, CO, 7/27/19.
- “Cannabis and Complementary Therapies and Parkinson’s Disease,” Lafayette Parkinson’s Disease Support Group, Lafayette, CO, 8/13/19.
- “Advanced symptoms in PD,” Highlands Ranch Parkinson’s Disease Support Group, Highlands Ranch, CO, 10/18/19.
- “Palliative care: what’s it all about?” Department of Neurology Medical Assistant Lunch ‘n Learn Program, University of Colorado Hospital, Aurora, CO, 9/9/20.
- “Advance directives: planning in advance,” Department of Neurology Medical Assistant Lunch ‘n Learn Program, University of Colorado Hospital, Aurora, CO, 9/21/20.
- “Palliative Care: Improving Quality of Life with A Chronic Condition” Denver Ataxia Support Group, Aurora, CO, 1/16/21.
- “Lewy Body Disease” Tele-support for Carers of Neurological Disorders support group, Denver, CO, 6/14/21.
- “Overview of Neuropalliative Care” Rocky Mountain Chapter-Case Management Society of America, Denver, CO 9/14/21.
- “Intro to Neuro-Palliative Care” Lunch ‘n Learn lecture for Department of Neurology clinic Medical Assistants, Aurora, CO 9/17/21.
- “Lunch and Learn: Pain in Parkinson's Disease” Movement Disorders Program, Department of Neurology, Medical University of South Carolina (MUSC), 10/7/21.
- “Neuropalliative care in Parkinson’s Disease” Longmont (Colorado) Parkinson Support, 10/13/21.
- “Palliative Care is not Hospice care” Parkinson’s Association of the Rockies (PAR) Care Partner Summit, Denver, CO, 11/20/21.
- “Mindfulness in Parkinson’s Disease” Parkinson’s Support Group in Larimer County, CO, 4/6/22.
- “Palliative Care is not Hospice care” Parkinson’s Association of the Rockies (PAR) webinar, Denver, CO, 4/21/22.

- “Neuropalliative Care and Frontotemporal Dementia” FTD Support group (Association of Frontotemporal Degeneration), Castlewood Library, Centennial, CO, June 15, 2023.
- “Neuropalliative Care for Parkinson’s Disease,” Boulder Parkinson’s Support group, November 28, 2023.

## GRANT SUPPORT

2021-present	Building Online Community to Improve Patient and Caregiver Outcomes in Parkinson’s disease, Lewy Body Dementia and Related Disorders	Site PI: C Vaughan	National Institute of Nursing Research (NINR), University of Rochester
2021-present	Implementation of a Team-based Outpatient Palliative Care in Parkinson’s Foundation Centers of Excellence	Site PI: C Vaughan	Patient Centered Outcome Research Institute (PCORI): University of Rochester
2021-2022	“Neuropalliative care for persons with drug-resistant epilepsy”	Co-PI: C. Vaughan (with C Drees)	American Epilepsy Society Adira Foundation
2020 2019-2021	Fast-Track Grant Response: COVID-19 “Perceived Palliative Care Needs in Early-Onset Dementia”	PI: C. Vaughan PI: C. Vaughan	2019 Neurology Department Intradepartmental Grant University of Colorado
2018-2020	“More than a movement disorder: Applying palliative care to Parkinson’s disease”	Sub-PI (PI: B. Kluger)	National Institute of Nursing Research (NINR), R01NR016037
2018-2020	SIGNAL trial of VX15 Antibody for Huntington’s Disease	Sub-PI (Site-PI: L Seeberger)	Vaccinex and the Huntington Study Group
2016	An Open-Label, Phase 3 Study Examining the Long-Term Safety, Tolerability and Efficacy of APL-130277 in Levodopa Responsive Patients with Parkinson’s Disease Complicated by Motor Fluctuations (“OFF” Episodes)	Site-PI	Cynapsus Therapeutics Inc.
2015-2016	Connect.Parkinson: Connecting Individuals With Parkinson Disease to Specialists in Their Homes	Site-PI	University of Rochester
2014-2016	A Randomized, Double-Blind, Placebo-Controlled Study of SD-809 For the Treatment of Moderate to Severe Tardive Dyskinesia (SD-809-C-18, 20, 23)	Site-PI	Teva Pharmaceuticals
2014-2016	Tele-neurology Assessments of Patients with Parkinson's disease	Principal Investigator	Parkinson's Advocates in Research (PAIR) leadership award

2013-2017	An Open-Label, Long-term Safety Study of SD-809 ER in Patients with Chorea Associated with Huntington Disease (ARC-HD).	Medical Monitor (PI: F Samuel, C Testa)	Teva Pharmaceuticals
2013-2016	Atomoxetine Treatment for Cognitive Impairment in Parkinson's Disease (ATM-Cog)	Sub-Investigator (PI V. Hinson)	Michael J. Fox Foundation for Parkinson's Disease Research
2013-2016	A Phase 3, 12-week, Double-Blind, Placebo-Controlled, Randomized, Multicenter Study to Evaluate the Efficacy of Oral Istradefylline 20 and 40 mg/day as Treatment for Subjects with Moderate to Severe Parkinson's Disease.	Site-PI	Kyowa Hakko Kirin Pharma, Inc. (KKP)
2013-2014	First Time Use of SD-809 ER in HD (First-HD).	Medical Monitor (PI: F. Samuel, C. Testa)	Auspex Pharmaceuticals, Inc.
2011-2014	A randomized, double-blind, placebo-controlled study to assess the safety and tolerability, and efficacy of PBT2 in patients with early to mid-stage Huntington disease.	Medical Monitor (PI: R. Dorsey)	Prana Biotechnology
2011-2013	Assessment of Need for Treatment with Botulinum Toxin Type A in Cervical Dystonia Patients.	PI (Investigator initiated)	Merz
2011-2012	Varenicline for the treatment of postural and gait dysfunction in Parkinson's disease.	Co-PI (Co-PI: D. Hall; Investigator initiated)	Pfizer
2011-2012	Extended Release Amantadine Safety and Efficacy Study in Levodopa-Induced Dyskinesia (EASED) Study.	Site Sub-investigator (site PI: L. Verhagen)	Adamas
<b>NON-FUNDED RESEARCH</b>			
2011-2012	Master of Science Thesis: Dystonia in <i>FMRI</i> premutation carriers		Rush University Medical Center, Chicago, IL
2014-2016	Glial cell-derived Neurotrophic factor and alpha-Synuclein Expression in Parkinson's Disease	Co-Investigator (Co-PI: H. Boger,)	Medical University of South Carolina Neuroscience Institute Pilot Grant
2014-2016	Circulating Markers of Neurodegeneration and Inflammation in Parkinson's Disease	Co-Investigator (Co-PI: N. Banik)	Medical University of South Carolina Pilot Project

2021-present	ADRD-PC Study: Palliative Care for Persons with Late-stage Alzheimer's Disease and Related Dementias and Their Caregivers	Member, clinical team (Site PI: H Lum)	NIA R01AG065394: University of North Carolina, Chapel Hill
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## BIBLIOGRAPHY

### Original full-length manuscripts (published, in press, or submitted)

1. Oh JD, Russell DS, **Vaughan CL**, Chase TN (1998). Enhanced tyrosine phosphorylation of striatal NMDA receptor subunits: effect of dopaminergic denervation and L-DOPA administration. *Brain Res* 813(1):150-9.
2. Oh JD, **Vaughan CL**, Chase TN (1999). Effect of dopamine denervation and dopamine agonist administration on serine phosphorylation of striatal NMDA receptor subunits. *Brain Res* 821(2):433-42.
3. Mandir AS & **Vaughan CL** (2000). Pathophysiology of Parkinson's disease. *International Review of Psychiatry* 12(4):270-80.
4. Mikhelashvili-Browner N, Yousem DM, Mandir AS, Calhoun VD, Wu C, Oguz KK, **Vaughan CL** (2002). Correlation of reaction time in and out of the functional MR unit. *Acad Radiol* 9(5):513-9.
5. Mikhelashvili-Browner N, Yousem DM, Wu C, Kraut MA, **Vaughan CL**, Oguz KK, Calhoun VD (2003). Lack of sex effect on brain activity during a visuomotor response task: functional MR imaging study. *Am J Neuroradiol* 24(3):488-94.
6. **Vaughan C**, Samy H, Jain S (2008). Selective saccadic palsy after cardiac surgery. *Neurology*. 2008 Nov 18;71(21):1746 [correspondence].
7. Jumaa M, Popescu A, Tsay J, **Vaughan C**, Vora N, Jankowitz B, Horowitz MB, Jovin TG, Uchino K (2010). Evaluation of vertebral artery origin stenosis: A retrospective comparison of three techniques. *Journal of Neuroimaging* 22(1):14-16.
8. Goldman JG, **Vaughan CL**, Goetz CG (2011). An update expert opinion on management and research strategies in Parkinson's disease psychosis. *Expert Opinion on Pharmacotherapy* 12(13):2009-24.
9. Goetz CG, **Vaughan CL**, Goldman JG, Stebbins GT (2014). I finally see what you see: Parkinson visual hallucinations captured with functional neuroimaging. *Mov Disord*. 29(1):115-7.
10. Huntington Study Group Reach2HD Investigators (2015). Safety, tolerability, and efficacy of PBT2 in Huntington's disease: a phase 2, randomised, double-blind, placebo-controlled trial. *Lancet Neurol*. 14(1):39-47.
11. Connect.Parkinson Group (2016). National randomized controlled trial of virtual house calls for people with Parkinson disease: interest and barrier. *Telemed J E-Health*. 22(7):590-8.
12. Huntington Study Group (2016). Effect of Deutetrabenazine on Chorea Among Patients with Huntington Disease: A Randomized Clinical Trial. *JAMA*. 316(1):40-50.
13. Huntington Study Group/Alternatives for Reducing Chorea in Huntington Disease Investigators (2017). Safety of Converting From Tetrabenazine to Deutetrabenazine for the Treatment of Chorea. *JAMA Neurol*. 74(8): 977-982.
14. Hirst JM and **Vaughan CL** (2017). Delirium: Use Antipsychotics When Appropriate and Appropriately. *J Palliat Med*. 20(8): 799.
15. Beck CA, Beran DB, Biglan KM, Boyd CM, Dorsey ER, Schmidt PN, Simone R, Willis AW, Galifianakis NB, Katz M, Tanner CM, Dodenhoff K, Aldred J, Carter J, Fraser A, Jimenez-Shahed J, Hunter C, Spindler M, Reichwein S, Mari Z, Dunlop B, Morgan JC, McLane D, Hickey P, Gauger L, Richard IH, Mejia NI, Bwala G, Nance M, Shih LC, Singer C, Vargas-Parra S, Zadikoff C, Okon N, Feigin A, Ayan J, **Vaughan C**, Pahwa R, Dhall R, Hassan A, DeMello S, Riggare SS, Wicks P, Achey MA, Elson MJ, Goldenthal S, Keenan HT, Korn R, Schwarz H,

- Sharma S, Stevenson EA, Zhu W; Connect.Parkinson Investigators (2017). National randomized controlled trial of virtual house calls for Parkinson disease. *Neurology*. 89(11):1152-1161.
16. **Vaughan C** and Kluger BM (2018). Palliative Care for Movement Disorders. *Current Treatment Options in Neurology*. 20(1): 2.
  17. Martin EJ, **Vaughan CL**, Atayee R, Hirst JM, O'Donnell K, Edmonds KP (2018). Hydromorphone-Induced Chorea as an Atypical Presentation of Opioid Neurotoxicity: A Case Report and Review of the Literature. *Palliat Med*. Oct;32(9):1529-1532.
  18. Mendlik MT, McFarlin J, Kluger BM, **Vaughan CL**, Phillips JN, Jones CA (2019). Top Ten Tips Palliative Care Clinicians Should Know About Caring for Patients with Neurologic Illnesses. *J Palliat Med*. 22(2):193-198.
  19. Kluger BM, **Vaughan CL**, Robinson MT, Creutzfeldt C, Subramanian I, Holloway RG (2020). Neuropalliative care essentials for the COVID-19 crisis. *Neurology*. 95(9): 394-398.
  20. Deuel LM, Yu CH, **Vaughan CL**, Piquet AL (2020). Oro-bucco-lingual dyskinesia, weight loss, and cognitive decline in anti-DPPX antibody-mediated encephalitis. *Movement Disorders Clinical Practice*. *Mov Disord Clin Pract*. 7(Suppl 3): S80-S82.
  21. Chou CZ, Hopkins TJ, Badiola I, Gazelka HM, Gohil S, Kitt A, Luke WR, **Vaughan CL**, Jones CA, Varhabhatla N (2020). Top Ten Tips Palliative Care Clinicians Should Know About Interventional Pain and Procedures. *J Palliat Med*. 23(10):1386-1391.
  22. Subramanian I and **Vaughan CL** (2020). Hoping for the best, planning for the worst: Palliative care approach to Parkinson disease during the COVID-19 pandemic. *Parkinsonism and Related Disorders*. 80: 203–205.
  23. Hall DA, Kapur S, **Vaughan C**, Hawkins J, and Stebbins G (2021). Varenicline for the treatment of postural and gait dysfunction in Parkinson's disease (PD). *Neurol Clin Pract*. Dec;11(6):457-461.
  24. Plys E, **Vaughan CL**, Kutner JS, Berk J, Kolva E (2022). Interdisciplinary Neuropalliative Care: A Unique and Valuable Clinical Training Experience for Geropsychology Trainees. *Gerontology & Geriatrics Education* May 27:1-13.
  25. Kluger BM, Kramer NM, Katz, Galifianakis NB, Pantilat S, Long J, **Vaughan CL**, Foster LA, Creutzfeldt CJ, Holloway RG, Sillau S, Joshua Hauser (2022). Development and Dissemination of a Neurology Palliative Care Curriculum: Education in Palliative and End-of-Life Care *Neurology*. *Neurol Clin Prac*, 12 (2) 176-182.
  26. Frank S, Testa T, Edmondson MC, Goldstein J, Kayson E. Leavitt BR, Oakes D, O'Neill C, **Vaughan C**, Whaley J, Gross N, Gordon MF, Savola JM; on behalf of the Huntington Study Group/ARC-HD Investigators and Coordinators (2022). The Safety of Deutetrabenazine for Chorea in Huntington Disease: An Open-label Extension Study. *CNS Nov*;36(11):1207-1216.
  27. Drees C, Hixon AM, Sillau S, Lopez-Esquibel N, Spitz M, Mohler R, Baca C, Fetrow K, Gay Brown M, **Vaughan C** (2023). Physician distress when treatments fail: Survey on physician distress when treating persons with drug-resistant epilepsy and knowledge of neuropalliative care. *Epilepsy Behav*. Mar;140:108925.
  28. Kluger BM, Katz M, Galifianakis NB, Pantilat SZ, Hauser JM, Khan R, Friedman C, **Vaughan CL**, Goto Y, Long SJ, Martin CS, Dini M, McQueen RB, Palmer L, Fairclough D, Seeberger LC, Sillau SH, Kutner JS (2023). Patient and Family Outcomes of Community Neurologist Palliative Education and Telehealth Support in Parkinson Disease. *JAMA Neurol*. Nov 13:e234260.

### Book chapters

1. **Vaughan CL** and Verhagen LM. Pathogenesis of motor response complications in Parkinson's Disease: "mere conjectural suggestions" and beyond. In Pfeiffer R.F. (ed) *Parkinson's Disease*, 2nd edition. Boca Raton: CRC Press. pp 1007-1028, 2012.

2. **Vaughan CL** and Goldman JG. Psychosis and Parkinson's Disease; in Frucht S.J. (ed) Movement Disorder Emergencies: Diagnosis and Treatment, 2nd Edition. Totowa: Humana Press Inc. pp 75-92, 2013.
3. **Vaughan CL** and Goetz CG. Ataxia; in Aminoff M.J., Daroff R.B. (eds): Encyclopedia of Neurological Science, 2nd Edition, 2014.
4. **Vaughan CL** and Goetz CG. Hemifacial Spasm; in Aminoff M.J., Daroff R.B. (eds): Encyclopedia of Neurological Science, 2nd Edition, 2014.
5. **Vaughan CL** and Goetz CG. Neuroacanthocytosis; in Aminoff M.J., Daroff R.B. (eds): Encyclopedia of Neurological Science, 2nd Edition, 2014.
6. **Vaughan CL** and Goetz CG. Progressive Supranuclear Palsy; in Aminoff M.J., Daroff R.B. (eds): Encyclopedia of Neurological Science, 2nd Edition, 2014.
7. **Vaughan CL**. Paroxysmal Movement Disorders; in Hall D.A., Barton B.R. (eds): Neurology in Practice: Non-parkinsonian Movement Disorders. Wiley-Blackwell, 2017.
8. **Vaughan CL** and Carver AC. Pain Assessment and Management; in Creutzfeldt C.J., Holloway R.G., Kluger B.M. (eds): Neuropalliative Care: A Guide to Patient Management. Springer, 2019.
9. McGehrin K and **Vaughan CL**. Palliative Skills for Frontline Clinicians; in Aberger K and Wang D (eds): Palliative Skills for Frontline Clinicians: Case Vignettes in Everyday Hospital Medicine. Springer Nature Switzerland, 2020.
10. **Vaughan CL** and Goldman JG. Psychosis and Parkinson's Disease; in Frucht S.J. (ed) Movement Disorder Emergencies: Diagnosis and Treatment, 3rd Edition. Springer International Publishing, 2021.
11. **Vaughan CL** and Bruno V. What neurologists wish palliative care physicians knew; in Miyasaki JM and Kluger BM (eds): Handbook of Clinical Neurology volume 190, Neuropalliative Care – Part 1. Elsevier, 2022.

#### Peer-Reviewed Abstracts

1. Marsh L, **Vaughan C**, Schretlen D, Brandt J, Mandir A. Psychomotor aspects of mood disorders in Parkinson's disease (2000). *Biological Psychiatry* 47:S165.
2. **Vaughan CL**, Stebbins GT, Goetz CG, Bernard BA, Goldman, JG (2011). Executive function correlates with axial signs as detected by the MDS-UPDRS. American Academy of Neurology, Hawaii, April 2011 and Movement Disorders Society, Toronto, Canada, June 2011.
3. **Vaughan CL**, Ouyang B, Goetz CG, Berry-Kravis EM, Hagerman RJ, Leehey MA, Hall DA. Dystonia in *FMRI* premutation carriers. American Academy of Neurology, New Orleans, April 2012 and Movement Disorders Society, Dublin, Ireland, June 2012.
4. Goetz CG, **Vaughan CL**, Goldman JG, Stebbins GT. I finally see what you see: a window into Parkinson's disease hallucinations. Movement Disorders Society, Sydney, Australia, June 2013.
5. Claassen DO, Frank S, Stamler D, Sung V, Janicki S, Oakes D, **Vaughan C**, Testa C, on behalf of the First-HD HSG Investigators, Rating Swallowing Function in Patients with Huntington Disease Enrolled in the First-HD Study, American Academy of Neurology, April 2016, Platform Presentation.
6. **Vaughan CL**, Stebbins GT, Comella CL, Assessment of need for treatment with botulinum toxin type A in cervical dystonia patients, Movement Disorders Society 20th International Congress of Parkinson's Disease and Movement Disorders, Berlin, Germany, June 2016.
7. Claassen DO, Frank S, Stamler D, Sung V, Janicki S, Oakes D, **Vaughan C**, Testa C, on behalf of the First-HD HSG Investigators, Evaluating Swallowing Function in Patients with Huntington Disease Enrolled in the First-HD Study, Movement Disorders Society 20th International Congress of Parkinson's Disease and Movement Disorders, Berlin, Germany, June 2016.
8. Frank S, **Vaughan C**, Stamler D, Oakes D, Davis M, Gross N, Gordon M, Savola JM, Wieman M, Eberly S, Kayson E, Whaley J, Goldstein J, Testa C. Evaluation of the Safety of

Deutetrabenazine at Higher Doses to Treat Chorea in Huntington's Disease, International Parkinson and Movement Disorder Society Virtual Congress 2020.

9. Hall D, **Vaughan C**, Hawkins J, Stebbins G. Varenicline for the Treatment of Postural and Gait Dysfunction in Parkinson's Disease. International Parkinson and Movement Disorder Society Virtual Congress 2020.