

MICHELLE E. FULLARD, MD, MSCEMichelle.Fullard@CUAnschutz.edu**CURRICULUM VITAE**Academic Address

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EDUCATION AND TRAINING

- 2003-2005 Research Assistant, Nass Laboratory, Vanderbilt University, Nashville, TN
- 2005-2006 Research Assistant, Wadzinski Laboratory, Vanderbilt University, Nashville, TN
- 2002-2006 B.S. in Neuroscience, Vanderbilt University, Nashville, TN, *Summa Cum Laude*
- 2006-2010 M.D., Vanderbilt University School of Medicine, Nashville, TN
- 2010-2011 Intern in Internal Medicine, University of Virginia, Charlottesville, VA
- 2011-2013 Resident in Neurology, University of Virginia, Charlottesville, VA
- 2013-2014 Chief Resident in Neurology, University of Virginia, Charlottesville, VA
- 2014-2017 Movement Disorders Fellow, University of Pennsylvania and Philadelphia
PADRECC, Philadelphia, PA
- 2015-2017 MSCE in Clinical Epidemiology, University of Pennsylvania, Philadelphia, PA
- 2017-2018 Post-doctoral fellow, Chen-Plotkin Laboratory, University of Pennsylvania,
Philadelphia, PA
- 2024-Present Dissemination and Implementation Graduate Certificate Program, Anschutz
Medical Campus Graduate School, University of Colorado, Aurora, CO

FACULTY APPOINTMENTS

- 2017-2018 Instructor in Neurology, University of Pennsylvania, Philadelphia, PA
- 2018-Present Assistant Professor of Neurology, University of Colorado School of Medicine,
Denver, CO

2025-Present Associate Professor of Neurology, University of Colorado School of Medicine,
Denver, CO

HONORS, SPECIAL REGOGNITIONS, AWARDS

2002	Vanderbilt University Honors Scholarship
2002-2003	Southeastern Conference Academic Honor Roll
2003	Alpha Lambda Delta Honor Society
2003	Phi Etta Sigma Honor Society
2002-2006	Vanderbilt University College Scholar
2002-2006	Dean's Honor List all semesters of college
2006	Induction into Phi Beta Kappa Honor Society
2007	Amos Christie Summer Scholar
2009	American Medical Association Scholar Fund Award
2013	Virginia Neurological Society Scholarship
2014	Aspen Movement Disorders Course Travel Grant
2015	Selected for AAN Women in Leadership Program
2015	MDS Travel Grant Recipient for the 19 th International Congress of Parkinson's Disease and Movement Disorders
2016	American Academy of Neurology (AAN) 2016 Annual Meeting Fellow Scholarship Award
2016	American Neurological Association (ANA) 2016 Annual Meeting Travel Scholarship Award
2018	American Neurological Association (ANA) 2018 Annual Meeting Travel Scholarship Award
2019-2021	Scholar, Colorado Clinical & Translational Sciences Institute's Clinical Faculty Scholars Program
2019	Selected for Hispanic Outreach Leadership Program at Barrow Institute
2019	Parkinson Foundation Center of Excellence designation
2022	Parkinson Foundation COE Award for Highest Team Participation for the Parkinson's Foundation Palliative Care Education Course
2024	Nominated by Ludeman Center to be a Featured Scientist at the Ludeman Center's Annual National Scientific Meeting
2024	Selected for AAMC Early Career Women Faculty Leadership Development Seminar

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2010-present	American Academy of Neurology
2014-present	International Parkinson and Movement Disorder Society
2016-present	American Neurological Association
2016-present	American Association for the Advancement of Science
2017-present	American College of Epidemiology
2020-present	Parkinson Study Group

2023-present Society for Medical Decision Making

MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES

2015-2018 Udall Expert Consensus Panel, University of Pennsylvania

2019-present Movement Disorders Society Functional Movement Disorders Working Group

2019-2020 Parkinson Progression Markers Initiative Gender Working Group

2018-2021 Associate Director of Research, Movement Disorders Center, University of Colorado Anschutz Medical Campus

2018-2019 Quality Improvement Committee, Department of Neurology

2019 Grant Reviewer, Health Research Board (HRB), Ireland: Patrick Quinn Awards for Parkinson's Research

2020-present Parkinson Study Group Healthcare Outcomes and Disparities Working Group

2021-present Parkinson Progression Markers Initiative Digital Sensor Working Group

2021 CCTSI PreK Mock Study Section Reviewer

2021-present Director of Research, Movement Disorders Center, University of Colorado Anschutz Medical Campus

2021-present Parkinson Association of the Rockies Medical Advisory Board Member

2021 Member, CARES Act Committee, Department of Neurology

2021-present Director, Parkinson Foundation Center of Excellence

2022 Grant Reviewer, Parkinson Foundation Centers of Excellence Community Grants

2023-present Parkinson Progression Markers Initiative Sleep Working Group

2023 Grant Reviewer, Lorna Grindlay Moore Faculty Launch Award

2023-present Member, Clinical FTE Definition Committee, Department of Neurology

2023-present Member, Neurology Clinical Research Committee

2023-present Member, Ethics Board for Deep Brain Stimulation for Methamphetamine Use Disorder study

2024	Reviewer, NIH BRAIN Initiative: Research on the Ethical Implications of Advancements in Neurotechnology and Brain Science (R01)
2024	Member, Promotion Review Committee for Senior Instructor in Neurology
2025	Judge for Resident Research Presentations at Neurology Research Retreat
2025	Panelist and Judge for DBS Think Tank Rising Stars Challenge

LICENSURE AND BOARD CERTIFICATION

2014-present	American Board of Psychiatry and Neurology
2014-2018	Medical License, State of Pennsylvania
2018-present	Medical License, State of Colorado

REVIEW AND REFEREE WORK:

2016	Ad hoc reviewer, Translational Neurodegeneration
2019-present	Ad hoc reviewer, NPJ Parkinson's Disease (Nature Publishing Journal)
2019	Ad hoc reviewer, OBM Geriatrics
2020-present	Ad hoc reviewer, Movement Disorders
2020	Ad hoc reviewer, Chemical Senses
2020-present	Ad hoc reviewer, PLOS ONE
2020	Ad hoc reviewer, Neurobiology of Aging
2023-present	Ad hoc reviewer, European Journal of Neuroscience
2023-present	Ad hoc reviewer, Frontiers in Aging Neuroscience
2024-present	Ad hoc reviewer, Movement Disorders Clinical Practice
2024-present	Ad hoc reviewer, Medical Decision Making
2025-present	Ad hoc reviewer, Equity Neuroscience

INVITED EXTRAMURAL LECTURES, PRESENTATIONS, AND VISITING PROFESSORSHIPS

National/International

- "Olfactory Impairment Predicts Cognitive Decline in Early Parkinson's Disease." American Academy of Neurology Platform Presentation, 2016 Annual Meeting, Vancouver, BC, April 16, 2016.
- "Biomarkers and Clinical Markers for Parkinson's Disease." Presentation at Stanford's Movement Disorders Division meeting, October 10, 2017.
- "Biomarkers and Clinical Markers for Parkinson's Disease." Presentation at University of Virginia Movement Disorders Division meeting, October 27, 2017.
- "Biomarkers and Clinical Markers for Parkinson's Disease." Presentation at Northwestern's Movement Disorders Research Series, December 1, 2017.

- Panel Member: Futures in Neurological Research Session at the American Academy of Neurology 2018 Annual Meeting, Los Angeles, CA, May 2018.
- “State-level Prevalence, Utilization and Cost Varies Widely Among Medicare Beneficiaries with Parkinson’s Disease.” American Neurological Association Data Blitz Platform Presentation, 2018 Annual Meeting, Atlanta, GA, October 22, 2018.
- “Women and Parkinson’s Disease.” Webinar for the Davis Phinney Foundation, August 7, 2019.
- “Women and Parkinson’s Disease.” Webinar for the Parkinson Association of British Columbia, September 9, 2022.
- “Parkinson’s 101: What You & Your Family Should Know.” Webinar for the Parkinson Foundation, October 19, 2022.
- “Improving Shared Decision-Making for Women with Parkinson’s Disease.” Ludeman Center’s Annual National Scientific Council Meeting, Featured Scientist, May 14, 2024.
- “Improving Shared Decision-Making for Patients with Parkinson’s Disease.” Presentation at the American Parkinson Disease Association Leadership Conference, Denver, CO, July 26, 2024.
- “An Interactive Decision Aid to Improve Decisional Outcomes for Women with Parkinson’s Disease.” Data Blitz Presentation at the Ludeman National Conference on Women’s Health and Sex Differences Research, Colorado Springs, CO, October 24, 2024.
- “Improving Shared Decision-Making for Older Adults with Cognitive Impairment: Parkinson’s Disease as a Model.” New Beeson Awardee Data Blitz Presentation at the Annual Clin-STAR/Beeson Meeting, Oak Brook, IL, November 21, 2024.
- “Parkinson’s disease: Diagnosis and Pharmacological Treatment.” Faculty lecture at MDS-PAS 10th Annual Movement Disorders School for Neurology Residents, Denver, Colorado, September 20, 2025.

Regional

- “Intravascular Lymphoma Presenting as Recurrent Strokes and Encephalopathy.” Virginia Neurological Society Annual Conference, Wintergreen, VA, February 3, 2013.
- “Biomarkers and Cognition in PPMI.” Parkinson Progression Marker Initiative Study Update Patient event, Philadelphia, PA, November 21, 2015.
- Expert Clinician Panel Member: Philadelphia Clinical Research Fair, Michael J. Fox Foundation patient event, Philadelphia, PA, September 10, 2016.
- “Technology Advances for Parkinson’s Disease.” The 14th Annual Jane Wright Symposium on Parkinson’s Disease for Patients and Caregivers, Philadelphia, PA, June 15, 2017.
- “What’s new in Assistive Devices and Technology in Parkinson’s Disease?” Keynote speaker, 14th Annual Jean Feldman Memorial Rehabilitation Conference, Mount Laurel, NJ, March 1, 2018.
- “Women and Parkinson’s disease: Symptoms.” Women in PD TALK Forum, one of 10 regional forums sponsored by the Parkinson’s Foundation and PCORI, Philadelphia, PA, April 13, 2018.
- “Technology in Parkinson’s Disease.” 5th Annual Parkinson Disease Symposium, Movement Disorders Center, Denver, CO, October 27, 2018.

- “Advanced Therapies for Parkinson’s Disease.” Chat with the Parkinson’s Pros: Parkinson’s Association of the Rockies, Pueblo, CO, April 20, 2019.
- “Under the Bright Lights: Hospital Stays and Surgery following a Parkinson’s diagnosis.” 6th Annual Parkinson Disease Symposium, Movement Disorders Center, Denver, CO, October 26, 2019.
- “Recursos para la enfermedad de Parkinson.” Panel member for breakout session, Parkinson Association of the Rockies Virtual e3 Conference, October 3, 2020.
- “Research Updates in Progressive Supranuclear Palsy.” CurePSP Central Ohio Support Group talk, virtual, September 4, 2021.
- “Therapy Updates in Parkinson’s Disease.” Dine with the Doc event at St. Andrews Village Senior Living Community, June 30, 2022.
- “Advanced Therapies for Parkinson’s Disease.” Chat with the Parkinson’s Pros, Parkinson Association of the Rockies, Grand Junction, September 14, 2024.

Local

- “A Case of Thyrotoxic Periodic Paralysis.” Department of Neurology Very Interesting Case Conference, University of Virginia, March 9, 2012.
- “A Case of Hemichorea/Hemiballism.” Department of Neurology Very Interesting Case Conference, University of Virginia, November 30, 2012.
- “Challenges of Enteric and Other Tissue Alpha-synuclein as a Parkinson’s Disease Biomarker.” Department of Neurology Grant Rounds, University of Virginia, May 16, 2014.
- “Parkinson’s Disease: Motor and Nonmotor Symptoms.” Support group meeting sponsored by the Philadelphia VA PADRECC and broadcast to multiple consortium sites in and around Pennsylvania, November 3, 2014.
- “Biomarkers in Parkinson’s Disease: Olfaction and Vitamin D.” Fellows Research Presentation series for the University of Pennsylvania and the Philadelphia VA PADRECC, October 27, 2015.
- “Parkinson’s Disease 101.” Support group meeting sponsored by the Philadelphia VA PADRECC and broadcast to multiple consortium sites in and around Pennsylvania, April 11, 2016.
- “Associations Between Parkinson’s Disease and Cancer.” Protocol presentation before University of Pennsylvania Faculty in Epidemiology for the Masters of Science in Clinical Epidemiology program, May 17, 2016.
- “Wearable Devices and Smartphone Applications in Parkinson’s Disease.” Fellows Research Presentation series for the University of Pennsylvania and the Philadelphia VA PADRECC, October 14, 2016.
- “The Role of the Bitterome and Microbiome in Parkinson’s Disease.” External Review Board meeting for the Philadelphia VA PADRECC, December 2, 2016.
- “Cannabis for Parkinson’s Disease.” Chen-Plotkin Laboratory presentation, University of Pennsylvania, June 13, 2018.
- “Health Care Utilization and Health Outcomes in Parkinson’s Disease.” Movement Disorders Center Conference Series, University of Colorado, November 14, 2018.
- “Radiation-induced Parkinsonism.” Case presentation at the Colorado Neurological Society Parkinsonism Case Discussion, Denver, CO, May 29, 2019.

- “Health Care Utilization and Health Outcomes in Parkinson’s Disease.” Department of Neurology Research Retreat, University of Colorado, June 5, 2019.
- “Engaging the Denver Hispanic Community in Parkinson’s Disease Research.” Movement Disorders Research Retreat, University of Colorado, June 12, 2019.
- “Treatment Strategies for Functional Movement Disorders.” Department of Neurology Grand Rounds, University of Colorado, July 24, 2019.
- “Overview of the Movement Section Research.” Department of Neurology Research Retreat, University of Colorado, June 3, 2020.
- “Improving Inpatient and Emergency Room Management of Parkinson’s Disease: Reducing Receipt of Contraindicated Medications.” Department of Neurology Research Retreat, University of Colorado, June 3, 2020.
- “Gender Disparities in DBS Utilization for Parkinson’s Disease and Essential Tremor.” Presentation at DBS Patient Care Conference. April 6, 2021.
- “Movement Disorders Division Quality Improvement Initiatives.” Department of Neurology Research Retreat, University of Colorado, June 2, 2021.
- “Parkinson’s Disease Clinical Trial Updates.” Parkinson Disease Research Update, University of Colorado Movement Disorders Center, April 13, 2022.
- “Parkinson’s Disease Research Updates.” University of Colorado 9th Annual Parkinson Disease Symposium, October, 8, 2022.
- “Gender Disparities in Deep Brain Stimulation Utilization for Parkinson’s Disease and Essential Tremor.” University of Colorado Residency DEI Talk, January 18, 2023.
- “Gender Disparities in Deep Brain Stimulation for Parkinson’s Disease.” Department of Neurology Grand Rounds, University of Colorado, December 6, 2023.
- “Improving Shared Decision-Making for Women with Parkinson’s Disease.” Advanced Therapies in Movement Disorders Research Update Meeting, University of Colorado, February 6, 2024.
- “Improving Shared Decision-Making for Women with Parkinson’s Disease.” Lorna Grindlay Moore, PhD Invited Lecture, Reproductive Sciences Lecture Series, University of Colorado, April 23, 2024.
- “Improving Care for Women with Parkinson’s Disease.” Ludeman Center Advisory Board Holiday Luncheon, December 10, 2024.
- “Rethinking Parkinson’s: How Biology and Gender Shape the Experience.” Ludeman Center Let’s Talk series, November 11, 2025.

TEACHING RECORD

Clinic attending duties:

2017 – 2018	Supervision and teaching of Movement Disorders fellows, Geriatric fellows, residents and medical students in the Philadelphia VA PADRECC Movement Disorder Clinic
2018 – Present	Supervision and teaching of Movement Disorders fellows, residents and medical students in the University of Colorado Movement Disorder Clinic.

Presentations to medical students:

2014-2016 “Overview of Movement Disorders.” Gave lectures 2-3 times per year to 3rd year medical students during their Neurology Clerkship.

Presentations to residents and fellows:

December 2014 “Overview of Myoclonus.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

December 2014 “Imaging in Movement Disorders.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

January 2015 “Complementary and Alternative Therapies in Parkinson’s disease.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

March 2015 “Medication Updates in Parkinson’s disease: Rytary.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

April 2015 “Vitamin D and Parkinson’s Disease.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

June 2015 “Peripheral Neuropathy in Parkinson’s Disease.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

September 2015 “Psychogenic Movement Disorders.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

September 2015 “DBS Programming: STN.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

November 2015 “New Treatments for Parkinson’s Disease.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

December 2015 “Skin Manifestations in Parkinson’s Disease.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.

January 2016	“Restless Legs Syndrome.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.
March 2016	“Measuring Quality of Life in Parkinson’s Disease.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.
April 2016	“Cancer Risk in Parkinson’s Disease.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.
July 2016	“DBS Complications: Case presentation and Review.” Presentation for the fellows lecture series for the Movement disorder fellows at the Philadelphia VA PADRECC.
October 2017	“Studies of Prognosis and Survival” lecture, part of the Patient-Oriented Research Curriculum for Neurology residents at the University of Pennsylvania.
2019 - Present	Presentations and workshops for the UCD neurology residents as part of the Movement Disorders Block teaching curriculum. Past lectures and workshops include: 2019: “Duopa Workshop,” and “Overview of Parkinson’s Disease.”
2021 – Present	Research lecture series for Fellows, including “Anatomy of Specific Aims”
2025	Faculty for Movement Disorders Society-Pan-American Section 10th Annual Movement Disorders School for Neurology Residents. Provided lecture and small group session.

Mentoring record:

Students

Jarrett Bremer, BS. (Pharmacy student) Faculty mentor.

Abstracts/posters/presentations: “Reducing the Receipt of Contraindicated Medications for Patient’s with Parkinson’s Disease.” Poster at American College of Clinical Pharmacy Annual Meeting, October 2021; “Reducing the Receipt of Contraindicated Medications for Patients with Parkinson’s Disease.” Poster at the American Academy of Neurology Annual Meeting, April 2023. **Manuscript:** Golden, C, Sillau, S, Bremmer, J, Worledge, E, Cummins, R, Tremolet de Villers, K, Fullard M. Reducing the Receipt of Contraindicated Medications for Patients with Parkinson’s Disease. *Frontiers in Aging Neuroscience*. 2023 (in press)

Elisa Worledge, BS. (Pharmacy student) Faculty mentor.

Abstracts/posters/presentations: “Reducing the Receipt of Contraindicated Medications for Patients with Parkinson’s Disease.” Poster at American College of Clinical Pharmacy Annual Meeting, October 2021; “Reducing the Receipt of Contraindicated Medications for Patients with Parkinson’s Disease.” Poster at the American Academy of Neurology Annual Meeting, April 2023. **Manuscript:** Golden, C, Sillau, S, Bremmer, J, Worledge, E, Cummins, R, Tremolet de Villers, K, Fullard M. Reducing the Receipt of Contraindicated Medications for Patients with Parkinson’s Disease. *Frontiers in Aging Neuroscience*. 2023 (in press)

Camila Davila, BA. (Professional Research Assistant) Faculty mentor.

Manuscript: “Engaging Underrepresented Groups in Parkinson’s disease research: A novel use of Boot Camp Translation.” In Preparation.

Kylan Nelson, BS. (Medical Student, 3rd year) Faculty mentor.

Projects: “Educational resources for patients considering DBS surgery: a cross-sectional review of internet, print and multimedia materials.”

Post doctoral fellows:

2024 - present Graham Redweik, PhD. **Grants:** University of Colorado Movements Disorders Center Pilot Grant, “Cyclo(leucycl-prolyl): Potential Risk Factor and Clinical Biomarker for Parkinson’s Disease.” (\$14,610).

Residents:

Cherry Yu, MD. Faculty mentor. **Abstracts/posters/presentations:** “Gender Disparities in DBS Use Within the United States.” Presentation at the University of Colorado Neurology Research Retreat, June 2020. **Manuscripts:** Deuel, LM, Peterson, R, Sillau, S, Willis, AW, Yu, C, Kern, D, Fullard ME. Gender disparities in deep brain stimulation surgery for Parkinson’s disease and essential tremor. *Deep Brain Stimulation*. 2023 April;1:26-33. **Current position:** Movement Disorders Faculty, Vanderbilt University School of Medicine

Lyndsay Babcock, MD. Faculty Mentor through Neurology Resident Mentorship Program.

Grace Vitek, MD. Faculty Mentor through Neurology Resident Mentorship Program. Research mentor for project, “Gender differences in physical activity for patients with Parkinson’s disease.” **Abstract** presented at the Movement Disorders Society Meeting, September 2024. Research mentor for project, “The association of the reproductive lifespan and Parkinson’s disease onset in women.”

Movement disorder fellows:

- 2018 - 2020 Lisa Deuel, MD. Faculty mentor. **Abstracts/posters:** Deuel LM, Kern, DS, Fullard, ME. Sex Disparities in Patients with Essential Tremor Referred for Deep Brain Stimulation Surgery. (Guided poster) American Academy of Neurology 2020 Annual Meeting, May 2020. **Manuscripts:** Deuel, LM, Peterson, R, Sillau, S, Willis, AW, Yu, C, Kern, D, Fullard ME. Gender disparities in deep brain stimulation surgery for Parkinson's disease and essential tremor. Deep Brain Stimulation 2023 April;1:26-33. **Grants:** University of Colorado Movement Disorder Center Research Grant, "Examining Sex Disparities in Deep Brain Stimulation for Patients with Essential Tremor." (\$5,000). **Current position:** Faculty, University of Vermont.
- 2018 - 2020 Jeanne Feuerstein, MD. Faculty mentor. **Manuscripts:** Feuerstein J, Olvera C, Fullard ME. "Treatment Responsiveness of Parkinsonism in Atypical Pantothenate Kinase-Associated Neurodegeneration." Mov Dis Clin Pract. 2020 Sept 29. Doi: 10.1002/mdc3.13056. **Current position:** Faculty, University of Colorado.
- 2019 - Present Caroline Goldin, MD. Faculty mentor. **Abstracts/posters/presentations:** "Reducing the Receipt of Contraindicated Medications for Patient's with Parkinson's Disease." Poster at American College of Clinical Pharmacy Annual Meeting, October 2021; "Reducing the Receipt of Contraindicated Medications for Patients with Parkinson's Disease." Poster at the American Academy of Neurology Annual Meeting, April 2023. **Manuscript:** Golden, C, Sillau, S, Bremmer, J, Worledge, E, Cummins, R, Tremolet de Villers, K, Fullard M. Reducing the Receipt of Contraindicated Medications for Patients with Parkinson's Disease. Frontiers in Aging Neuroscience. 2023. **Grants:** University of Colorado Clinical Effectiveness and Patient Safety (CEPS) Small Grants Program, "Improving Inpatient and Emergency Room Care for Patients with Parkinson's Disease." (\$12,300).
- 2019 – Present Teresa Lee, MD. Faculty mentor. **Abstracts/Posters:** "Patient Preferences for Deep Brain Stimulation Products in Parkinson Disease: What Really Matters to Them?" Abstract at the American Academy of Neurology Annual Meeting, April 2022. **Grants:** University of Colorado Movement Disorder Center Research Grant, "Smart Phone Applications in Deep Brain Stimulation Evaluation and Follow Up for Parkinson's Disease." (\$7,575)
- 2020 – Present Alex Baumgartner, MD. Faculty mentor.
- 2020 – Present Michael Korsmo, MD. Faculty mentor.
- 2021 – Present Heather Heiser, MD. Faculty mentor. **Grants:** University of Colorado Movement Disorder Center Research Grant, "Caregiver expectations for

DBS surgery in Parkinson's disease and its association with caregiver burden." (\$10,000)

2021 – Present Antonia Pusso, MD. Faculty mentor.

2022 – Present Brooke Heffernan, MD. Faculty mentor. **Abstracts/Posters:** "Do differences in risk aversion and perceived social support contribute to gender disparities in deep brain stimulation utilization? A survey of risk tolerance in patients with Parkinson's disease." Abstract presented at the Movement Disorders Society 2024. **Grants:** University of Colorado Movement Disorder Center Research Grant, "Gender differences in risk tolerance for DBS." (\$10,000).

2022 – Present Matthew Woodward, MD. Faculty mentor.

2023 – Present Bridget Ollesch, MD. Faculty mentor. **Grants:** University of Colorado Movement Disorder Center Research Grant, "Do differences in risk aversion contribute to gender disparities in utilization of advanced therapies for essential tremor?" (\$5,000)

2023 – Present Ondrea Timmerman, DO. Faculty mentor.

2024 – Present Blake Beehler, MD. Faculty mentor.

2024 – Present Sonny Tallavajhalla, MD. Faculty mentor.

Junior faculty:

2020-present Lisa Deuel, MD. Mentor. Movement Disorders Faculty at the University of Vermont (see above)

2024-present Sana Aslam, DO. Mentor. **Abstract:** Race and Ethnicity Differences in Physical Activity in Parkinson's Disease. Presented at the Parkinson Study Group Annual Meeting, Nashville, TN, December 5, 2024. Manuscript in preparation.

GRANT SUPPORT (active):

- American Parkinson's Disease Association
2025-2026

Role: PI

Improving Shared Decision Making for Women with Parkinson's Disease

The goal of this study is to pilot test a gender-sensitive, individualized decision aid and examine its implementation using mixed methods.

- Paul B. Beeson Emerging Leaders Career Development Award in Aging (K76)
 NIA K76AG083349-01A1 2024-2029
 Role: PI Total Award: \$1,200,000
Improving Shared Decision-Making for Older Adults with Cognitive Impairment: Parkinson's Disease as a Model
 The goal of this study is to better understand how cognitive impairment affects decision-making and to develop, refine and test a decision aid to improve shared decision-making in this population.
- Anschutz Acceleration Initiative Award 2024-2029
 (PIs: Matlock & Glasgow) Total Award: \$7,000,000
 Role: Co-Investigator
Making Personalization the Standard Through Rapid Design, Implementation, Testing and Maintenance.
 The goal of this comprehensive patient-centered personalization program is to develop patient-centered decision support tools across various clinical domains, with a strong emphasis on rapid and rigorous development, sustainable processes and equity in engagement. I am the co-lead of the specialty care project.
- University of Colorado Movement Disorders Center Research Grant 2024-2025
 (PI: Redweik) Total Award: \$14,610
 Role: Co-Mentor
Cyclo(leucyl-prolyl): Potential Risk Factor and Clinical Biomarker for Parkinson's Disease.
- University of Colorado Movement Disorders Center Research Grant 2023-2024
 (PI: Ollesch) Total Award: \$5,000
 Role: Primary Mentor
Do differences in risk aversion contribute to gender disparities in utilization of advanced therapies for essential tremor?
 The goal of this study is to determine if there are gender differences in risk aversion for patients with essential tremor considering DBS. We will also examine risk preference stability of risk preference in other contexts.
- NIH/NINDS Loan Repayment Program Renewal 2024-2026
 Role: PI Total Award: \$75,000
Decision Support to Reduce Gender Disparities in Older Adults with Neurologic Disease: Deep Brain Stimulation as a Model
 The Loan Repayment Program pays up to \$50,000 annually of a researcher's qualified educational debt in return for a commitment to engage in NIH mission-relevant research.

GRANT SUPPORT (completed):

- Building Interdisciplinary Research Careers in Women's Health K12 Program

NIAM SD/K12AR084226

2023-2024

Role: Scholar (co-PI: Regensteiner/Santoro) Total Award: \$270,000

Improving Shared Decision-Making for Women with Parkinson's Disease

The goal of this study is to pilot test a gender-sensitive, individualized decision aid and examine its implementation.

- NIH/NINDS Loan Repayment Program 2022-2024
 Role: PI Total Award: \$100,000
Decision Support to Reduce Gender Disparities in Older Adults with Neurologic Disease: Deep Brain Stimulation as a Model
 The Loan Repayment Program pays up to \$50,000 annually of a researcher's qualified educational debt in return for a commitment to engage in NIH mission-relevant research.
- Michael J. Fox Foundation Research Award 2021-2024
 Role: Co-I Total Award: \$58,415
Diversifying Research through Inclusivity and Engagement in Parkinson's Disease (DRIVE PD)
 The goals of this study are to identify and better understand the barriers to specialty care and research within the Denver Hispanic and Latino Community.
- Lorna G. Moore Faculty Launch Award 2022-2023
 Role: PI Total Award: \$40,000
Improving Shared Decision-Making for Women with Parkinson's Disease
 The goal of this study is to develop a gender-sensitive, individualized decision aid to improve decisional outcomes for women.
- Michael J. Fox Foundation FIRE-UP PD II Research Award 2022-2023
 Role: PI Total Award: \$32,500
Foster Inclusivity in Research Engagement for Underrepresented Populations in Parkinson's Disease
 The goals of this study are to assess barriers to research within the Denver Hispanic and Latino Community.
- University of Colorado Movement Disorders Center Research Grant 2022-2023
 (PI: Heffernan) Total Award: \$10,000
 Role: Primary Mentor
Examining Gender Differences in Risk Tolerance
 The goals of this study are to determine if there are gender differences in risk tolerance in general, related to health and related specifically to DBS and factors associated with risk tolerance.
- Davis Phinney Foundation Research Award
 Role: PI Total Award: \$135,000 2021-2023
Removing Barriers to Deep Brain Stimulation Surgery for Women with Parkinson's Disease

The goals of this study are to identify the barriers women face when contemplating DBS surgery and to develop interventions to remove these barriers.

- University of Colorado Neurology Intradepartmental Grant
 Role: PI Total Award: \$20,000 2021-2022
Examining Gender Differences in Therapy Preference and Risk Tolerance in Parkinson's Disease.
 The goals of this study are to determine patient and sociodemographic factors that contribute to gender differences in risk tolerance.
- Auburt and Barbara Mowry Philanthropic gift 2021-2022
 Role: PI Total Award: \$21,238
Reducing the receipt of contraindicated medications for Parkinson's disease in the outpatient setting.
 The goals of this study are to expand on the inpatient best practice alert and adapt it to the outpatient setting.
- University of Colorado Movement Disorders Center Research Grant 2021-2022
 (PI: Heiser) Total Award: \$10,000
 Role: Primary Mentor
Caregiver expectations for DBS surgery in Parkinson's Disease and its association with caregiver burden.
 The goals of this study is to determine if a mismatch between caregiver expectations for DBS surgery and reality contribute to the lack of improvement in caregiver burden following DBS surgery.
- UCH Clinical Effectiveness and Patient Safety Grant 2020-2021
 Role: PI Total Award: \$12,300 COMPLETED
Improving Inpatient and Emergency Room Management for Patients with Parkinson's Disease.
 The goals of this study are to determine the factors associated with receipt of contraindicated medications for patients with Parkinson's disease, as well as develop a best practice alert to reduce the receipt of these medications.
- Clinical Research Training Fellowship in Parkinson's Disease 2017-2021
 Role: PI Total Award: \$130,000 COMPLETED
Wearable Devices and Smartphone Applications in Parkinson's Disease.
 This award is funded by the American Academy of Neurology, the American Brain Foundation and the Parkinson's Foundation. The goal of the study is to correlate features from wearable devices and smart phone applications with validated measures of motor symptoms in Parkinson's disease.
- Colorado Department of Public Health and Environment (PI: Leehey) 2015-2021
 Role: Sub-PI COMPLETED
A randomized, double-blind, placebo-controlled crossover study of tolerability and efficacy of Cannabidiol (CBD) on tremor in Parkinson's disease

The purpose of this randomized, double blind, placebo-controlled crossover study is to look at the tolerability and efficacy of cannabidiol on tremor and other aspects of Parkinson's disease.

- Michael J. Fox Foundation FIRE-UP PD Research Award 2019-2020
 Role: PI Total Award: \$45,000 COMPLETED
Engaging the Denver Hispanic Community in Parkinson's Disease Research.
 The goals of this study are to assess barriers to research within the Denver Hispanic Community and to examine the use of Boot Camp Translation as a method to increase engagement in Parkinson's disease research.
- University of Colorado Movement Disorders Center Research Grant 2019-2020
 (PI: Lee) Total Award: \$7,575 COMPLETED
 Role: Primary Mentor
Smartphone Applications in Deep Brain Stimulation Evaluation and Follow-up for Parkinson's disease.
 The goals of this study are to correlate features from smartphone applications with validated measures of motor symptoms in Parkinson's disease, as well as determine if changes in certain features can be used to determine levodopa responsiveness for DBS evaluation.
- University of Colorado Movement Disorders Center Research Grant 2018-2019
 (PI: Deuel) Total Award: \$5,000 COMPLETED
 Role: Primary mentor
Examining Sex Disparities in Deep Brain Stimulation Surgery for Patients with Essential Tremor.
 The goals of this study are to determine patient and provider factors associated with sex disparities in referral patterns for Deep Brain Stimulation Surgery.
- NIH/NINDS (Feldman, PI) T32-NS061779-07 2015-2017
 Role: Neurology fellow researcher Total Award: \$160,000 COMPLETED
Vitamin D in Parkinson's Disease.
 This award is an institutional training grant for the Masters of Science in Clinical Epidemiology at the University of Pennsylvania. The goal of the research project is to determine if lower vitamin D level are associated with an increased risk of developing Parkinson's disease.

Industry and Foundation Sponsored Studies

- Michael J. Fox Foundation: PPMI 2021-present
 Role: Site PI Total Award: \$2,000,000
Parkinson's Progression Markers Initiative
 PPMI aims to identify biological markers of Parkinson's risk, onset and progression.
- Parkinson Foundation: TOPAZ
 Role: Site PI

This is a home-based placebo-controlled study of a single infusion of zoledronic acid for the prevention of fractures in men and women with Parkinson's disease.

- Neurocrine Biosciences: OPTI-ON
Role: Site PI
Total Award: \$26,849.2
2021-2022
This is a phase 4, open label observational study that aims to describe the treatment patterns and clinical outcomes observed with use of opicapone as adjunctive treatment to carbidopa/levodopa in Parkinson's disease patients experiencing OFF episodes with motor fluctuations.
- Impax Laboratories, LLC
Role: Site PI
Total Award: \$100,920
2019-2022
A randomized controlled study to compare the safety and efficacy of IPX203 with immediate-release carbidopa-levodopa in Parkinson's disease patients with motor fluctuations.
- Parkinson Study Group: WATCH-PD
Role: Site-PI
Total Award: \$132,689
2019-2022
A Multi-center, Prospective, Longitudinal, Digital Assessment Study of Disease Progression in Subjects with Early, Untreated Parkinson Disease (PD)
The main objective of this study is to compare the ability of measurements obtained from wearable digital devices (including sensors, smart phones and smart watches) with traditional clinic exams and questionnaires to measure progressive changes in movement, thinking (cognition), and mood, activities of daily living and quality of life in individuals with early, untreated Parkinson disease over a one-year period.

Published work available in MyBibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/16SGeUHRGi2Mrw/bibliography/public/>

Peer-reviewed articles:

1. Aslam, S, Sharrief, A, Holden, S, **Fullard, M**, Holtrop, J, Maw, A, Amara A. The future of Parkinson's care: a need to expand access. *Front Neurol*. 2025 Jun 19;16:1622283.
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3. Dam, T et al. (**Fullard, M** as part of the Parkinson's Progression Marker's Initiative). Neuronal alpha-Synuclein Disease integrated staging system performance in PPMI, PSADENA, and SPARK baseline cohorts. *NPJ Parkinsons Dis*. 2024 Sep 27;10(1):178.
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5. Liu, Y, Bainbridge, J, Sillau, S, Rajkovic, S, Adkins, M, Thompson, J, Klawitter, J, Sempio, C, Seawalt, T, Baker, S, Chin G, Forman, L, **Fullard, M**, Hawkins, T, Seeberger, L, Newman, H, Vu, D, Leehey, M. Short-term cannabidiol with delta-9-tetrahydrocannabinol in Parkinson disease: a randomized trial. *Movement Disorders* 2024 May;39(5):863-875.
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 12. **Fullard ME**, Duda JE. A Review of the Relationship Between Vitamin D and Parkinson Disease Symptoms. *Front Neurol.* 2020;11:454.
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Scientific abstracts:

1. Aslam, S, Vitek, G, **Fullard ME**. Race and Ethnicity Differences in Physical Activity in Parkinson's Disease. Abstract presented at the Parkinson Study Group Annual Meeting, Nashville, TN, December 5, 2024.
2. **Fullard, ME**, Bettcher, B, Kluger, B, Morris, M, Matlock, D. Improving Shared Decision Making for Older Adults with Cognitive Impairment: Parkinson's Disease as a

- Model. Poster presented at the Annual Beeson Meeting, Oak Brook, IL, November 20, 2024.
3. **Fullard, ME**, Rice, J, Matlock, DD. Gender Differences in Risk tolerance and Patient Preferences When Considering Deep Brain Stimulation. Abstract presented at the Annual BIRCWH Meeting, Bethesda, October 2024.
 4. Vitek, G, **Fullard, ME**. Gender Differences in Physical Activity in Parkinson's Disease. Abstract and Platform Presentation at the Movement Disorders International Congress, Philadelphia, September 2024.
 5. Heffernan, B, Sleyster, M, Sillau, S, **Fullard, ME**. Do Differences in Risk Aversion and Social Support Contribute to Gender Disparities in DBS Utilization?" Abstract presented at the Movement Disorders International Congress, Philadelphia, September 2024.
 6. **Fullard, ME**, Dafoe, A, Shelton, E, Kern, DS, Matlock, DD, Morris, MA. How Women and Men with Parkinson's Disease Approach Decision-Making for Deep Brain Stimulation Surgery. Abstract presented at the American Academy of Neurology Annual Meeting, April 2024.
 7. **Fullard, M**, Morris, M, Dafoe, A, Shelton, E, Kern, D, Matlock D. Improving Shared Decision-Making for Women with Parkinson's Disease. Abstract at the American Academy of Neurology Annual Meeting, April 2023.
 8. Goldin, C, Worledge, E, Bremmer, J, Tremolet de Villers, K, Cummins, R and **Fullard, M**. Reducing the Receipt of Contraindicated Medications for Patients with Parkinson's Disease. Abstract at the American Academy of Neurology Annual Meeting, April 2023.
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 14. Maureen L, Liu Y, Sillau S, Fischer S, Klawitter J, Sempio C, **Fullard M**, Hawkins T, Seeberger L, Digulio E, Vu D, Baker S, Seawalt T, Chin G and Bainbridge J. A Randomized, Double-Blind, Placebo Controlled, Parallel Study of Tolerability and Efficacy of Cannabidiol on Motor Symptoms in Parkinson Disease: Interim Report on Tolerability. Abstract at the 30th annual ICRS symposium on the Cannabinoids in Galway, Ireland, July 2020 (in-person cancelled due to COVID).
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6. **Fullard, ME.** "Wearable Devices and Smart Phone Applications." Transmitter Article. Parkinson's Disease and Movement Disorders Center Newsletter of Penn Medicine. Volume 12. Number 1. Spring 2017.
7. "Physical Therapy Underused in Parkinson's". *Medpage Today*. Press article about our study on therapy utilization for Parkinson's disease. June 2016.
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