

Curriculum Vitae

Date Prepared: 09/24/2023
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Place of Birth: Secaucus, New Jersey

Education

2003	B.A. cum laude	Neuroscience & Behavior	Columbia University
2007	M.D. Alpha Omega Alpha	Medicine	New York University School of Medicine
2016	M.M.S.c	Master's of Medical Science in Clinical and Translational Investigation	Harvard Medical School

Postdoctoral Training

06/07-06/08	Intern	Medicine	New York Presbyterian/ Weill Cornell Medical College
07/08-06/11	Resident	Neurology	Massachusetts General Hospital/ Brigham and Women's Hospital/ Partners Neurology Residency
07/11-06/14	Resident	Psychiatry	Brigham and Women's Hospital/ Beth Israel Deaconess Medical Center/ Massachusetts Mental Health Center/ Harvard Longwood Psychiatry Residency Training Program
07/11-06/14	Fellow	Neurology	Brigham and Women's Hospital (Limited clinical activities in behavioral neurology- neuropsychiatry)

Faculty Academic Appointments

07/14-06/15	Fellow	Neurology	Massachusetts General Hospital
07/15-04/17	Instructor	Neurology	Massachusetts General Hospital
05/17-02/21	Assistant Professor	Neurology	Massachusetts General Hospital
03/21-	Associate Professor	Neurology	Massachusetts General Hospital

Appointments at Hospitals/Affiliated Institutions

07/14-	Assistant Physician	Neurology	Massachusetts General Hospital
07/14-06/19	Assistant Physician	Psychiatry	Massachusetts General Hospital

07/19-	Psychiatrist	Psychiatry	Massachusetts General Hospital
07/14-	Affiliated Researcher	Psychiatry	Brigham and Women's Hospital
07/15-06/20	Moonlighting Physician	Psychiatry	Beth Israel Deaconess Medical Center

Major Administrative Leadership Positions

Local

2014-	Director, Functional Neurological Disorder Research Program	Massachusetts General Hospital
2015-	Director, Functional Neurological Disorder Clinic	Massachusetts General Hospital
2017-	Co-Director, MGH Behavioral Neurology & Neuropsychiatry CME Lecture Series	Massachusetts General Hospital
2019	Course Co-Director: Functional Neurological Disorders: An Interprofessional Approach	Spaulding Hospital
2021-	Director, Functional Neurological Disorder Unit	Massachusetts General Hospital

National

2018	Course Co-Director: Functional Neurological Disorders: An Update in the Standard of Care	Rutgers University
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International

2023	Course Co-Director: Functional Neurological Disorder: Putting Principles into Practice	Functional Neurological Disorder Society
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Committee Service

Local

2011-2012	Research Committee Member	Harvard Longwood Psychiatry Residency Training Program
2012-2014	Residency Selection Committee Member	Harvard Longwood Psychiatry Residency Training Program
2020-	Mass General Neuroscience Leadership Council	Member

Professional Societies

2009-	American Academy of Neurology (AAN)	Member, Norman Geschwind Prize in Behavioral Neurology Awards Committee
2019-		
2019		Symposium Co-Director, Case Studies: When to Refer Patients for Cognitive Behavioral or Mindfulness Based Psychotherapies: Expanding the Neurologist's Toolbox
2022		Symposium Director, Neuropsychiatric Considerations in Epilepsy
2023-2025		

		Chair, AAN Section of Behavioral Neurology & Neuropsychiatry
2011-	American Neuropsychiatric Association (ANPA)	
	2012-2015	Member, Public Policy-Affairs Committee
	2015-2016	Member, Membership Committee
	2015-	Member, Committee on Research
	2017-	Member, Career Development Awards Committee
	2018- 2020	Vice Chair, Career Development Awards Committee
	2018- 2023	Research Platform Moderator
	2019-2020	Chair, Functional Neurological Disorder Special Interest Group
	2021-2023	Chair, Career Development Awards Committee
	2022	Symposium Chair, Functional Neurological Disorder – A Core Neuropsychiatric Condition
	2023-	Council (Board) Member
2011-	American Psychiatric Association	
2014-	Society for Behavioral and Cognitive Neurology (SBCN)	
	2023-2025	President
	2023-	Fuller Award Selection Committee
2014-2015	American Epilepsy Society	
2016-	Boston Society of Neurology, Psychiatry & Neurosurgery	
	2016-	Member, Planning Committee
	2023-2024	Co-President
Non-member	Academy of Consultation-Liaison Psychiatry	
	2018	Course Director, Functional Neurological Disorders: The State of the Field
2019	American Congress of Rehabilitation Medicine	
2019-	Functional Neurological Disorder Society (Founding Member)	
	2018-	Member, International FND Core Outcome Measures Group
	2021-2022	Interim Chair, Program Committee
	2020-	Member, Education Committee
	2020-	Co-Chair, Neuroimaging Committee
	2022-	Board Member

2022-

Co-Chair, Education Committee

2021- International Neuropsychiatry Association
Lifetime

Editorial Activities

Ad-Hoc Reviewer

Acta Neurologica Scandinavica
American Journal of Psychiatry
Annals of Clinical and Translational Neurology
Annals of Neurology
Biological Psychiatry
BMC Neurology
BMJ Open
BMJ Best Practice
BMC Psychiatry
Brain
Brain and Behavior
British Journal of Psychiatry - Open
Canadian Journal of Psychiatry
Clinical Neurology and Neurosurgery
Clinical EEG and Neuroscience
Cognitive and Behavioral Neurology
Comprehensive Psychiatry
E-Clinical Medicine
Epilepsia
Epilepsy & Behavior
Epilepsy & Behavior Reports
European Journal of Neurology
Frontiers in Neurology
General Hospital Psychiatry
Harvard Review of Psychiatry
Human Brain Mapping
International Medical Case Reports Journal
JAMA Neurology
JAMA Psychiatry
Journal of Affective Disorders
Journal of Clinical Neurosciences
Journal of Clinical Psychopharmacology
Journal of Nervous & Mental Disorders
Journal of Neuroimmunology
Journal of Neurology, Neurosurgery and Psychiatry
Journal of Neurological Sciences
Journal of Psychiatry & Neuroscience
Journal of Psychosomatic Research
Journal of the Academy of Consultation-Liaison Psychiatry
Lancet

Lancet Psychiatry
 Movement Disorders: Clinical Practice
 Movement Disorders
 Neurobiology of Disease
 Neurocase
 Neuroimage: Clinical
 Neurology
 Neuroscience & Neurobehavior Reviews
 Neuropsychiatric Disease & Treatment
 NPJ Schizophrenia
 Parkinsonism & Related Disorders
 PLOS ONE
 Psychological Medicine
 Psychosomatic Medicine
 Psychosomatics
 Psychiatry & Clinical Neuroscience
 Psychiatry Research
 Psychiatry Research: Case Reports
 Psychiatry Research: Neuroimaging
 Seizure – European Journal of Epilepsy
 Schizophrenia Bulletin
 Schizophrenia Research
 Sleep
 Switzerland Grant Review: Geneva University Hospitals and Faculty of Medicine Research Foundation
 2023
 The International Journal of Neuropsychopharmacology
 The Journal of Neuropsychiatry & Clinical Neurosciences
 UK: Medical Research Council 2018, 2020, 2021

Other Editorial Roles

2014-2015	Guest Co-Editor Special Issue on Psychogenic Nonepileptic Seizures	<i>Clinical EEG and Neuroscience</i>
2018-2020	Guest Co-Editor Special Issue on Functional Neurological Disorder Guest Co-Editor	<i>The Journal of Neuropsychiatry & Clinical Neurosciences</i>
2020-2022	Issue on Neuropsychiatry: An Integrated Approach to the Neurological Patient Guest Co-Editor	<i>Seminars in Neurology</i>
2021-2023	Issue on Functional Neurological Disorder Editorial Board Member (Elsevier)	<i>Neurologic Clinics</i>
2021-	Senior (Paid) Editor (Wiley)	<i>Epilepsy & Behavior</i>
2022-	Associate Editor (APA)	<i>Brain and Behavior</i>
2023-		<i>The Journal of Neuropsychiatry & Clinical Neurosciences</i>

Honors and Prizes

1999-2003	Kluge Scholar	Columbia University	Academic Achievement
2000-2003	Dean's List	Columbia University	Academic Achievement
2003	Cyrus Levinthal Prize	Columbia University	Achievement in Biology
2007	Herman Wortis Award	New York University School of Medicine	Excellence in Neurology and Psychiatry
2007	American Academy of Neurology Medical Student Prize	New York University School of Medicine	Excellence in Neurology
2012	Young Investigator Award	American Neuropsychiatric Association	Research
2012	Outstanding Psychiatry Resident Teaching Award	Harvard Medical School	Teaching
2013	Resident Award for Excellence in Medical Education in Psychiatry	Harvard Medical School	Teaching
2013	Joseph J. Schildraut Research Award	Harvard Longwood Psychiatry Residency Training Program	Research
2013	Partners in Excellence Team Award – Spanish Neurology Program	Partners Healthcare	Clinical Care
2014	Career Development Award	American Neuropsychiatric Association	Research-Clinical Achievement
2015	AAIC Travel Award	Alzheimer's Association International Conference	Research
2016	Livingston Fellowship Award	Harvard Medical School	Research
2018	Diplomate	United Council of Neurological Subspecialties	Behavioral Neurology-Neuropsychiatry Certified
2021	Fellow	American Academy of Neurology	Academic Achievement
2022	Fellow	American Neuropsychiatric Association	Academic Achievement

Report of Funded and Unfunded Projects

Funding Information

Past

- 2013-2015 Functional and Structural Biomarkers of Psychogenic Nonepileptic Seizures
National Institute of Neurological Disorders and Stroke/ R25 NS065743-05S1
Resident/Fellow Mentored Investigator (\$70,000)
The goal of this study was to use functional and structural neuroimaging techniques to probe neural circuit disturbances in patients with psychogenic nonepileptic seizures compared to healthy subjects.
- 7/2016-
8/2017 Clinical and Neuroimaging Markers of Symptom Severity in Motor Functional
Neurological Symptom Disorders
Dupont Warren Fellowship Award, Harvard Medical School
PI (\$72,420)

The goal of this pilot prospective study of psychometric and MRI markers of symptom severity in patients with motor functional neurological disorders.

7/2016-
6/2019

Neuroimaging Biomarkers of Disease Risk and Prognosis in Functional Neurological Disorders

Sidney R. Baer Jr. Foundation Young Investigator Award
PI (\$85,600)

The goal of this neuroimaging study is to characterize structural and functional neural circuit associations with clinical measures of disease-risk (including childhood trauma burden) and prognosis in patients with motor functional neurological disorder. This grant is also intended to support the overall growth of the Functional Neurology Research Group.

7/2016-
6/2021

Neuroimaging Biomarkers of Symptom Severity, Disease Subtype and Prognosis in Functional Neurological Disorder

2016 MGH Physician-Scientist Development Award, Executive Committee on Research
PI (\$120,000)

The goal of this neuroimaging study is to characterize structural and functional neural circuit biomarkers of symptom severity, disease subtype and prognosis in patients with motor functional neurological symptoms.

7/2018-
6/2022

Neural Mechanisms of Psychotherapy-informed Physical Therapy for Functional Neurological Disorders.

Sidney R. Baer. Jr. Foundation
PI (\$256,000)

The goal of this study is to characterize neural mechanisms associated with clinical response to multidisciplinary treatment in patients with functional neurological disorder.

9/2017-
8/2022

Neuroimaging Biomarkers of Symptom Severity, Adverse Life Events and Prognosis in Functional Neurological Disorders

NIMH 1K23MH111983
PI (\$1,003,959)

The goal of this neuroimaging study is to comprehensively investigate structural and functional neuroimaging biomarkers of symptom severity, adverse life event burden and prognosis in motor functional neurological disorders employing quantitative structural neuroimaging, diffusion tensor imaging and resting state functional connectivity analyses.

Current

4/1/2021-
3/31/2026

Defining Neurobiological Subtypes of Motor Functional Neurological Disorder
NIMH 1R01MH125802

PI (\$3,882,725)

The goal of this study is to use multimodal neuroimaging techniques, in conjunction with deep phenotypic characterization, to identify biological subtypes of functional neurological disorder that relate to high symptom burden, high childhood maltreatment and poor clinical outcomes.

Training Grants and Mentored Training Grants

7/1/2020-6/30/26 Sidney R. Baer Jr. MGH Clinician-Scientist Fellow in Behavioral Neurology & Neuropsychiatry
 Sidney R. Baer, Jr. Foundation
 Co-PI (\$856,427)
 The grant aims to establish a clinician-scientist track within the behavioral neurology – neuropsychiatry fellowship, with core clinical experiences including functional neurological disorder clinic.

Current Unfunded Projects

2015- Retrospective Investigation of Demographic and Clinical Variables Predicting Symptom Severity and Prognosis in Functional Neurological Disorders
 The goal of this study to is perform detailed retrospective chart reviews to investigate demographic, psychiatric and neurological variables associated with symptom severity and prognosis in patients with functional neurological disorder.

Report of Local Teaching and Training

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2012	RITE Prep Course: Psychiatry for the Neurologist Neurology Residents	Brigham and Women’s Hospital 1-hour lecture
2013	Brain-Behavior Relationships PGY2 Psychiatry Residents	Brigham and Women’s Hospital 2-hour lectures
2014	Neurobiology of Functional Neurologic Syndromes Behavioral Neurology-Neuropsychiatry Fellows	Massachusetts General Hospital 1-hour lecture
2014	An Integrative Neurocircuit Perspective on Functional Movement Disorders and Psychogenic Nonepileptic Seizures: Neural Functional Unawareness Movement Disorder Fellows	Massachusetts General Hospital 1-hour lecture
2014, 2015	Brain-Behavior Relationships in Cognitive Behavioral Neurology and Neuropsychiatry Cognitive-Behavioral Neurology/ Neuropsychiatry Fellow	Massachusetts General Hospital 1-hour lecture
2014	Brain-Behavior Relationships in Neuropsychiatry Psychiatry Residents	Harvard Longwood Psychiatry Program 1-hour lecture
2014, 2015	Brain-Behavior Relationships in Functional Neurological Disorders Neuropsychology Fellows	Massachusetts General Hospital 1-hour lecture
2015	Brain-Behavioral Relationships in Neuropsychiatry Psychiatry Residents	Massachusetts General Hospital 1-hour lecture
2016	Functional Neurological Disorders CL-Psychiatry Fellows	Massachusetts General Hospital 1-hour lecture
2016	Functional Neurological Disorders	Massachusetts General Hospital

2016	Partners Neurology Residents Functional Neurological Disorders MGH Comprehensive Neurology Fellows	1-hour lecture Massachusetts General Hospital 1-hour lecture
2017	Functional Neurological Disorders Cognitive-Behavioral Neurology/Neuropsychiatry Fellows	Massachusetts General Hospital 30-minute lecture
2017	Functional Neurological Disorders PGY-4 Psychiatry Residents	Brigham and Women's Hospital 1-hour lecture
2017	Neurological Examination for Psychiatrists CL-Psychiatry Fellows	Brigham and Women's Hospital 1-hour lecture
2017	Functional Neurological Disorders Neuropsychology Fellows	Massachusetts General Hospital 1-hour lecture
2017	Functional Movement Disorders Movement Disorder Fellows	Massachusetts General Hospital 1-hour lecture
2017	Motor Functional Neurological Disorders Emergency Medicine Residents	Massachusetts General Hospital 1-hour lecture
2018	Functional Neurological Disorders PGY-4 Psychiatry Residents	Brigham and Women's Hospital 1-hour lecture
2018	Functional Neurological Disorders CL-Psychiatry Fellows	Massachusetts General Hospital 1-hour lecture
2018	Functional Neurological Disorders PGY-3 Psychiatry Residents	Massachusetts General Hospital 1-hour lecture
2018	Neurological Examination for Psychiatrists CL-Psychiatry Fellows	Brigham and Women's Hospital 1-hour lecture
2019	Functional Neurological Disorders CL-Psychiatry Fellows	Massachusetts General Hospital 1-hour lecture
2019	Functional Neurological Disorders & Related Somatic Symptom Disorders PGY-3 Psychiatry Residents	Massachusetts General Hospital Two 1-hour lectures
2019	Functional Neurological Disorders PGY-4 Psychiatry Residents	Brigham and Women's Hospital 1-hour lecture
2019	Neurological Exam & Brain-Symptom Relationships CL-Psychiatry Fellows	Brigham and Women's Hospital 1-hour lecture
2019	Brain-Behavioral Relationships in Neuropsychiatry Behavioral Neurology – Neuropsychiatry Fellows	Massachusetts General Hospital 1-hour lecture
2019	Assessment of Functional Neurological Disorders Behavioral Neurology – Neuropsychiatry Fellows	Massachusetts General Hospital 1-hour lecture
2019	Assessment and Management of Functional Neurological Disorders Brain Injury PMR Fellows	Spaulding Hospital 1-hour lecture
2019	Assessment and Management of Functional Neurological Disorders PMR Residents	Spaulding Hospital 1-hour lecture (jointly given with Julie Maggio)

2020	Journal Club Harvard Longwood Psychiatry Residents	Beth Israel Deaconess Medical Center 45-minute group discussion
2020	Assessment and Management of Psychogenic Nonepileptic Seizures Epilepsy Fellows	Massachusetts General Hospital / Brigham and Women's Hospital 1-hour lecture
2020	Assessment and Management of Functional Neurological Disorders PGY-3 Psychiatry Residents	Cambridge Health Alliance 1-hour lecture
2020	Assessment and Management of Functional Neurological Disorders PGY-3 Psychiatry Residents	Massachusetts General Hospital 1-hour lecture
2020	Assessment and Management of Functional Neurological Disorders PGY-4 Psychiatry Residents	Brigham and Women's Hospital / Beth Israel Deaconess Medical Center 1-hour lecture
2020	Psychogenic Nonepileptic Seizures and Other Functional Motor Disorders in the Emergency Department Emergency Medicine Residents	Massachusetts General Hospital 1-hour lecture
2020	Functional Neurological Disorders: Assessment and Management PGY2-4 Neurology Residents	Massachusetts General Hospital 1-hour lecture
2020	Functional Neurological Disorders: The Basics PGY3 Medicine Residents	Massachusetts General Hospital 30-minute lecture
2020	Child/Adolescent Psychiatry Journal Club PGY5 & PGY6 Psychiatry Fellows	Massachusetts General Hospital 1-hour journal club
2021	Assessment and Management of Functional Seizures PGY-5 Epilepsy Fellows	Massachusetts General Hospital / Brigham and Women's Hospital 1-hour (virtual) lecture
2021	Functional Neurological Disorder: An Updated Standard of Care PGY-3 Psychiatry Residents	Cambridge Health Alliance 1-hour (virtual) lecture
2021	Functional Neurological Disorder: An Updated Standard of Care PGY-3 Psychiatry Residents	Massachusetts General Hospital 1-hour lecture
2021	Functional Neurological Disorder: A New Standard of Care PGY 2-4 Neurology Residents	Massachusetts General Hospital 1-hour lecture
2021	The Neurological Exam for Psychiatrists PGY-5 CL Psychiatry Fellows	Brigham and Women's Hospital 1-hour lecture
2021	Psychiatry for the Neurologist: A Practical Guide for the Boards PGY2-4 Neurology Residents	Massachusetts General Hospital / Brigham and Women's Hospital 1-hour lecture
2021	Functional Neurological Disorder: Assessment & Management PGY-5 CL Psychiatry Fellows	Massachusetts General Hospital 1-hour lecture
2021		Beth Israel Deaconess Medical Center 1-hour lecture

2022	The Neuropsychiatry of Functional Neurological Disorder: Symptoms, Constructs, Risk Factors and Circuits PGY-2 Psychiatry Residents	Massachusetts General Hospital 1-hour lecture
2022	Functional Neurological Disorder: A Neuropsychiatric Approach to Care PGY-3 Psychiatry Residents	Massachusetts General Hospital 1-hour lecture
2022	Functional Neurological Disorder: Diagnosis and Management PGY 2-4 Neurology Residents	UMASS Medical Center 1-hour seminar
2022	Neurobiology of Functional Neurological Disorder, Biopsychiatry Seminar PGY1-PGY6 Psychiatry and Dual Psychiatry-Neurology Residents	Massachusetts General Hospital 1-hour lecture
2022	Functional Neurological Disorder: Assessment & Management PGY-5 CL Psychiatry Fellows	Beth Israel Deaconess Medical Center 1-hour lecture
2023	The Pathophysiology of Functional Neurological Disorder PGY-2 Psychiatry Residents	Massachusetts General Hospital 1-hour lecture
2023	The Neuropsychiatric Approach to the Assessment of Functional Neurological Disorder PGY-3 Psychiatry Residents	Beth Israel Deaconess Medical Center 1-hour lecture
2023	Neuropsychiatric Clinical-Pathological Case Conference Brain-Behavior Relationships in Behavioral Neurology & Neuropsychiatry PGY-5 Behavioral Neurology & Neuropsychiatry, Geriatric Psychiatry Fellows	Massachusetts General Hospital / Brigham and Women's Hospital 1-hour lecture

Clinical Supervisory and Training Responsibilities

2015-	Neurology resident supervision in Behavioral Neurology Clinic	Massachusetts General Hospital 0.25 hour/week
2015-	Behavioral neurology fellow supervision in Behavioral Neurology Clinic	Massachusetts General Hospital 0.5 hour/week
2015-	Neurology resident supervision in General Neurology Consultation Service	Massachusetts General Hospital Daily for two 2-week periods
2016-2023	CL-psychiatry fellow supervision in Functional Neurological Disorders/Neuropsychiatry Clinic	Massachusetts General Hospital 1.5 hours once per month
2020-	Behavioral Neurology – Neuropsychiatry fellow in Functional Neurological Disorder Clinic	Massachusetts General Hospital 4 hours twice per month

Laboratory and Other Research Supervisory and Training Responsibilities

2014-	Supervision of post-doctoral research fellow (average 1 fellow per year)	Massachusetts General Hospital One-hour lab meeting per week; 1:1 supervision one hour per week per fellow
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Formally Mentored Harvard Medical, Dental and Graduate Students

2018-2019 Vihang Nakhate, HMS Class of 2019
Conducted a research thesis in my lab on functional neurological disorder, including performing resting-state functional connectivity neuroimaging analyses; 2 published co-authored articles (*Molecular Psychiatry*, *Seminars in Neurology*)

Other Mentored Trainees and Faculty

2014-2016 Sara Makaretz, Scientist I at Biogen
Career stage: research assistant. Mentoring role: study design and neuroimaging analysis methods. Accomplishments: co-authored article in *Journal of Neurology, Neurosurgery & Psychiatry* 2017.

2015-2016 Sigrid Young, NYU Emergency Medicine Resident
Career stage: research trainee (volunteer). Mentoring role: study design, data collection and data analysis. Accomplishments: co-authored 4 original research articles.

2015-2016 Nassim Matin MD, MPH, 4th Year Neurology Resident at SUNY Downstate Medical Center
Career stage: post-doctoral research fellow. Mentoring role: study design, data collection, neuroimaging data analysis, and manuscript writing. Accomplishments: co-first author in *Journal of Neurology, Neurosurgery & Psychiatry* 2017 article (7 total publications with my lab).

2016-2018 Benjamin Williams, Emory Medical Student
Career stage: research assistant. Mentoring role: study design, data collection, MRI analyses, and manuscript drafting. Accomplishments: co-first author in *Journal of Neurology, Neurosurgery & Psychiatry* 2018 article and first author in *Journal of Psychiatric Research* article.

2017-2018 Rozita Jalilianhasanpour MD, Research Fellow Johns Hopkins Hospital
Career stage: post-doctoral research fellow. Mentoring role: study design, data collection, univariate and multivariate data analyses, and manuscript writing. Accomplishments: first author in *Journal of Psychosomatic Research* 2018 article (7 co-authored articles with my lab).

2018 Sean Glass MD, Kaiser Permanente Attending Psychiatrist
Career stage: behavioral neurology – neuropsychiatry fellow. Mentoring role: cross-sectional data analysis and manuscript drafting. Accomplishments: first author article in *J Neuropsychiatry & Clin Neurosci*.

2018 Matthew Burke MD, Toronto Western Hospital Attending Neurologist
Career stage: behavioral neurology – neuropsychiatry fellow. Mentoring role: cross-sectional data interpretation and manuscript drafting. Accomplishments: co-author in *Journal of Psychosomatic Research* article.

2018-2019 Kathleen McKee MD, Intermountain Healthcare Attending Neurologist
Career stage: movement disorders fellow. Mentoring role: literature review and manuscript drafting. Accomplishments: first author review article in *Psychosomatics*.

2018-2019; 2022- Caitlin Adams MD, Imbedded Attending Psychiatrist in Behavioral Neurology Division
Career stage: consultation-liaison psychiatry fellow, first-year psychiatry attending at MGH, and 6th year attending returning to MGH. Mentoring role: conducting literature reviews and manuscript drafting. Accomplishments: first author perspective article in *Practical Neurology*, 2nd author in a *Neuroimage: Clinical* systematic review, and co-first author perspective article in *Seminars in Neurology* among others

- 2018 Elizabeth Madva MD, MGH consultation-liaison psychiatry fellow
Career stage: MGH psychiatry resident. Mentoring role: conducting literature reviews.
Accomplishments: co-author of perspective article in *Practical Neurology*.
- 2018-2019 Juan Pablo Ospina Botero MD, 1st year neurology resident at University of Chicago
Career stage: post-doctoral research fellow. Mentoring role: study design, data collection, univariate and multivariate data analyses and manuscript writing. Accomplishments: first author in *Journal of Affective Disorders* 2019 article (6 co-authored articles with my lab).
- 2018-2019 Indrit Bègue MD, PhD, Psychiatry Resident in Switzerland
Career stage: psychiatry resident and post-doctoral researcher in Switzerland. Mentoring role: how to perform a systematic review and interpret the neuroimaging literature in functional neurological disorder. Accomplishments: first author in *Neuroimage: Clinical* 2019 article.
- 2018-2019 Jordan Anderson DO – Oregon Health & Sciences University Attending Neuropsychiatrist
Career stage: PGY6 neurology-psychiatry resident at Rhode Island Hospital. Mentoring role: training on performing literature reviews and drafting manuscripts.
Accomplishments: First author in a review article published in *Seminars in Neurology* and co-author in a *Practical Neurology* article, both on functional neurological disorders.
- 2017-2020 Ibai Diez PhD – MGH Researcher, Instructor in Radiology at HMS
Career stage: post-doctoral research fellow. Mentoring Role: study design and clinical neuroscience expertise. Accomplishments: first author articles in *Molecular Psychiatry*, *Journal of Neurology*, *Neurosurgery & Psychiatry* and *Psychological Medicine*.
- 2018- Julie Maggio, D.P.T., N.C.S. – MGH Senior Physical Therapist & Researcher
Career stage: lab researcher. Mentoring: study design, data analysis and manuscript drafting. Accomplishments: first author article on physical therapy outcomes in functional neurological disorder published in *J Neuropsychiatry & Clin Neurosci* and first author on systematic review in somatization disorder published in *Brain Communications*.
- 2018-2020 Anna Larson – Psychology Graduate Student, Suffolk University
Career stage: MGH research assistant. Mentoring: literature review, data collection, analysis, and manuscript writing. Accomplishments: co-first author in neuroimaging focused article in *Molecular Psychiatry*.
- 2019-2020 Priyanka Alluri – Neuropsychology Graduate Student, CUNY
Career stage: MGH research assistant. Mentoring: literature review, data collection, analysis, and manuscript writing. Accomplishments: first author review article on neuropsychological profiles in functional neurological disorders published in *Cognitive Behavioral Neurology*; also, co-first author in systematic review on somatization disorder published in *Brain Communications*.
- 2019- Petr Sojka PhD – Neuropsychologist and Neuroimaging Researcher at Faculty of Medicine, Masaryk University and University Hospital Brno, Brno, Czech Republic
Career Stage: Staff neuropsychologist and research scientist. Mentoring: data analysis and manuscript preparation in functional neurological disorder. Accomplishments: first author original research neuroimaging article probing white matter – interoception relationships in functional neurological disorder published in *Human Brain Mapping*. Another first author article on biomarkers of symptom severity in functional movement disorder published in *Brain & Behavior*.
- 2019- Sara Paredes Echeverri MD – MGH Postdoctoral Research Fellow
Career stage: MGH research fellow. Mentoring: systematic literature review, meta-analysis, prospective imaging, and psychometric data collection / analyses.
Accomplishments: middle author in a systematic review related to functional neurological

- disorder published in *Brain: Communications*. Co-first author in a theoretical article on the role of emotion in functional neurological disorder published in *Brain*. 1st author of a systematic review and meta-analysis on autonomic, endocrine and inflammatory profiles in functional neurological disorder – published in *J Neuropsych Clin Neurosci*.
- 2020- Aneeta Saxena MD – MGH Neurologist affiliated with the FND Unit
 Career stage: part-time clinical and research faculty in FND Unit. Mentoring: training in how to efficiently review / synthesize the literature, academic writing and development of hypothesis-driven research questions. Accomplishments: first author review in *Neuropsychiatric Disease & Treatment*, co-first author review in *Epilepsy & Behavior* and guest co-editor in *Seminars in Neurology* Neuropsychiatry Issue.
- 2021- Johannes Jungilligens PhD – Research Associate at Universitätsklinikum Knappschafts Krankenhaus Bochum
 Career Stage: MGH research fellow. Mentoring: study design, diffusion tensor imaging neuroimaging analyses, and conceptual formulation of the literature. Accomplishments: co-author in a comprehensive review of neuroimaging methods used to date to study Functional Neurological Disorder published in *Neuroimage: Clinical* and co-first author in a conceptual article on functional neurological disorder published in *Brain*. Also, first author in a structural neuroimaging paper in *Psychiatry Research: Neuroimaging*.
- 2021 David D. Kim MD – Attending Neurologist, Baycrest Hospital
 Career stage: clinical fellow in neurology rotating through the FND clinic. Mentoring: synthesizing the literature and drafting a timely article on associations between vaccines and functional neurological disorder – addressing themes related to COVID-19 vaccine hesitancy. Accomplishments: first author *JAMA Neurology* viewpoint article.
- 2021- Sara Finkelstein MD, MSc – MGH Instructor in Neurology
 Career stage: core faculty member in the Functional Neurological Disorder Unit. Mentoring: advising Dr. Finkelstein on how to co-edit a special issue on Functional Neurological Disorder for the journal *Neurologic Clinics*, as well as providing guidance on literature review /writing on topics related to FND. Accomplishments: first author article in *Seminars in Neurology* on FND; co-first author in *Seminars in Pediatric Neurology*.
- 2021- Alexa Goldstein – MGH Summer Undergraduate Research Student
 Career stage: undergraduate student researcher; Mentoring: advising Ms. Goldstein in how to perform a retrospective chart review, as well as to descriptively report on observations identified and draft a manuscript. Accomplishments: first author manuscript published in *Neurorehabilitation*.
- 2021- Andrew Guthrie – Current Laboratory Research Assistant
 Career Stage: Research Assistant; Mentoring: supervision of how to collect, store, organize and analyze psychometric and neuroimaging data. Accomplishments: co-first author of an original research article published in *Frontiers in Psychiatry*.
- 2023- Kathryn McCombs – BU Graduate Student in an Occupational Therapy Doctoral Program
 Career Stage: Visiting Doctoral Student; Mentoring: supervision in conducting a retrospective chart review to characterize sensory processing profiles in patients with Functional Neurological Disorder; a secondary aim is to preliminarily characterize clinical outcomes for patients undergoing OT-based sensory modulation interventions

Formal Teaching of Peers (e.g., CME and other continuing education courses)

2014, 2015	Conversion and Dissociative Disorders in Women Update on Neurology and Psychiatry of Women: What Every Practitioner Needs to Know	Single Presentation Harvard Medical School
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2016-2023	Functional Movement Disorders	Single Presentation
	Movement Disorders: Current Concept and Practice	Harvard Medical School
2017-2021	Functional (Psychogenic) Neurological Disorders in the Acute Setting: Assessment and Early Management	Single Presentation Harvard Medical School
2018	Neurological Emergencies Clinical Approach to Functional Neurological Disorders	Single Presentation Rutgers University
2019	Functional Neurological Disorders: An Update in the Standard of Care	Two Presentations Spaulding Hospital
2019	Functional (Psychogenic) Neurological Disorders: An Interprofessional Approach Clinical Approach to Functional Neurological Disorders	Single Presentation Case Management Society of New England Annual Educational Breakfast Program
2021-2023	Psychiatry for the Neurologist Neurology Board Review	Single Presentation Harvard Medical School
2021	Diagnosis and Treatment of Motor Functional Neurological Disorder	Single Presentation 42 Annual Neurorehabilitation Conference

Local Invited Presentations

No presentations below were sponsored by outside entities (e.g., industry)

2013	Motor and Somatosensory Conversion Disorder: A Functional Unawareness Syndrome? Grand Rounds Department of Psychiatry, Brigham and Women's Hospital, Beth Israel Deaconess Medical Center
2014	A Neural Circuit Framework for Somatosensory Amplification in Somatoform Disorders Grand Rounds Department of Psychiatry, Brigham and Women's Hospital, Beth Israel Deaconess Medical Center
2014	The Neurobiology of Functional Neurological Disorder and Related Conditions The Sidney R. Baer, Jr. Foundation Fellowship in Clinical Neurosciences Lecture Series, Beth Israel Deaconess Medical Center
2015	The Spectrum of Behavioral Variant Frontotemporal Dementia MGH Memory Disorders Unit Didactic Rounds
2015	An Integrative Clinical-Neurocircuit Perspective on Functional Neurological Disorders: Neural Functional Unawareness Boston Society of Neurology and Psychiatry
2015	Symptom-Specific Neuroimaging Studies at the Neurology-Psychiatry Interface: Current Research and Future Directions Grand Rounds Massachusetts General Hospital, Department of Neurology
2015	Integrating Cognitive-Affective Neuroscience and Neuropsychiatry into Psychiatric Training and Practice Grand Rounds Department of Psychiatry, Beth Israel Deaconess Medical Center
2016	Functional Neurological Disorders: Clinical and Neurobiological Perspectives

- Grand Rounds
Spaulding Rehabilitation Hospital
- 2016 Clinical and Neurobiological Insights in Functional Neurological Disorders
Grand Rounds
Massachusetts General Hospital
- 2017 Functional Neurological Disorders: Scientific and Ethical Challenges
Neuroethics Seminar Series
HMS Center for Bioethics
- 2018 Functional Neurological Disorders: Clinical and Neurobiological Insights
Grand Rounds
Department of Psychiatry, Beth Israel Deaconess Medical Center
- 2019 Assessment and Management of Functional Neurological Disorders
MGH Medicine Genetics Conference
- 2019 Bridging the Divide: What can Neurology and Neurosurgery Learn from Psychiatry?
Boston Society of Neurology, Psychiatry & Neurosurgery
- 2019 Functional Neurological Disorders: Clinical and Neurobiological Insights
Grand Rounds
Newton Wellesley, Department of Neurology
- 2019 NEJM CPC: A 62-Year Old Man with Memory Loss and Odd Behavior
Grand Rounds
Department of Neurology, Massachusetts General Hospital
- 2020 Functional Neurological Disorder: Neurobiological Perspectives
Grand Rounds
Departments of Neurology and Psychiatry, Massachusetts General Hospital
- 2021 Functional Neurological Disorder: Updates in Assessment and Management
Cognitive Behavioral Neurology Unit Grand Rounds
Department of Neurology, Beth Israel Deaconess Medical Center
- 2021 A Psychotherapy Presentation of Functional Neurological Disorder (Co-Presented with
Ellen Godena LICSW)
Cross Talk Lecture Series
Department of Psychiatry, Massachusetts General Hospital
- 2022 The Neuropsychiatric Approach to Functional Neurological Disorder
Interprofessional Pain and Headache Rounds, Tufts Medical Center
- 2022 Functional Neurological Disorder: Bridging Physical & Mental Health
Chester Pierce Research Society Speaker, Massachusetts General Hospital
- 2022 Functional Neurological Disorder: A Delayed Trauma-Related Condition?
The Center for Anxiety, Depression and Stress Research Lecture Series, McLean Hospital
- 2022 NEJM CPC: A 27-Year-Old Man with Convulsions
Grand Rounds
Department of Psychiatry, Massachusetts General Hospital
- 2023 Functional Neurological Disorder: Towards A Trauma Subtype
Psychiatry Grand Rounds, Beth Israel Deaconess Medical Center

Report of Regional, National and International Invited Teaching and Presentations

[Invited Presentations and Courses](#)

National

No presentations below were sponsored by outside entities (e.g., industry)

- 2012 Frontolimbic Gray Matter Abnormalities in Childhood Sexual Trauma Related PTSD/
Oral Research Platform Presentation
American Neuropsychiatric Association, New Orleans
- 2013 A Case of Cotard Syndrome in a Woman with a Right Subdural Hemorrhage
Oral Clinical Platform Presentation
American Neuropsychiatric Association, Boston
- 2014 Frontolimbic Neural Circuit Changes Associated with Clinical Improvement Following
Transference-Focused Psychotherapy in Borderline Personality Disorder
Oral Research Platform Presentation
American Neuropsychiatric Association, Seattle
- 2015 Atrophy in Distinct Corticolimbic Networks Subserving Social-Affective Behavior in
Semantic Variant Primary Progressive Aphasia
Oral Research Platform Presentation
American Academy of Neurology, Washington D.C.
Alzheimer's Association International Conference, Washington D.C.
- 2017 Functional Neurological Disorders: The Art and the Science
Symposium on Functional Neurological Disorders (Together with Janet Callahan of MGH)
Academy of Neurologic Physical Therapy, San Antonio
- 2017 Cingulo-Insular Structural Alterations Associated with Psychogenic Symptoms, Childhood
Abuse and PTSD in Functional Neurological Disorders
Oral Research Platform Presentation
American Neuropsychiatric Association, Atlanta
- 2017 Cingulo-Insular Structural Alterations Associated with Psychogenic Symptoms, Childhood
Abuse and PTSD in Functional Neurological Disorders
Oral Research Platform Presentation, Cognitive Behavioral Neurology Section
American Academy of Neurology, Boston
- 2018 The biopsychosocial Formulation in Functional Neurological Disorders
Academy of Consultation-Liaison Psychiatry, Orlando
- 2018 Yes – Neurologists Should Lead the Assessment and Management of Functional
Neurological Disorders
Plenary Session: Controversies in Neurology
- Talk featured in an invited Podcast by the AAN
- American Academy of Neurology, Los Angeles
- 2018 Stress Coping & Attachment Styles in Functional Neurological Disorders: Clinical and
Neurobiological Relevance
Emory Functional Neurological Disorders Conference: Generating a Research Agenda
- 2019 The Neurobiology of Functional Neurological Disorders
Invited Speaker at the AAN Course in Functional Neurological Disorders
American Academy of Neurology, Philadelphia
- 2019 When to Refer the Neurological Patient for Cognitive Behavioral Therapy
Invited Speaker at an AAN Course where Dr. Perez was also a course Co-Director
American Academy of Neurology, Philadelphia
- 2019 Invited Speaker at the ACRM Course in Functional Neurological Disorders
American Congress of Rehabilitative Medicine, Chicago
- 2020 Functional Neurological Disorder: Updates on Assessment and Management
Grand Rounds (Virtual)
Department of Neurology, Kaiser Permanente, Los Angeles California

- 2021 Functional Neurological Disorder: Updates on Assessment and Management
Grand Rounds (Virtual)
Department of Neurology, SUNY Downstate Medical Center, New York
- 2021 Functional Neurological Disorder: Updates on Assessment and Management
Grand Rounds (Virtual)
Department of Psychiatry, Indiana University School of Medicine, Indiana
- 2021 Assessment & Management of Functional Neurological Disorder: Building a
Multidisciplinary Treatment Program
Grand Rounds (Virtual)
Department of Psychiatry, University of Colorado School of Medicine
- 2021 Assessment and Management of Functional Neurological Disorder: A Neuropsychiatric
Approach
Consultation Liaison Psychiatry Lecture Series
Department of Psychiatry, UPENN Medical Center
- 2022 The Neuropsychiatric Assessment of Functional Neurological Disorder
Invited Speaker (and Symposium Director)
American Neuropsychiatric Association
- 2022 Neuropsychiatry: Bridging Brain, Mind and Body
Invited Speaker (and Symposium Director)
American Academy of Neurology
- 2022 The NeuroPsychiatric Approach to Functional Neurological Disorder
FND Interest Group, NYU Langone Medicine Center
- 2022 Diagnosis and Management of Functional Neurological Disorder: Lessons Learned
Endowed Annual Family Goldberg Lectureship, Joint Neurology and Psychiatry (Virtual)
Grand Rounds, University of Rochester Medical School
- 2022 The Neuropsychiatric Approach to Functional Neurological Disorder
Endowed The John F. Sullivan Memorial Lecture in Neuropsychiatry, Department of
Psychiatry Grand Rounds, University of Massachusetts Medical School
- 2022 A NeuroPsychiatric Approach to the Assessment and Management of FND
Kaiser Permanente's Southern California Neurology Conference
- 2022 The Neuropsychiatric Assessment of Functional Neurological Disorder
Grand Rounds, Department of Neurology
New York University School of Medicine, Langone Medicine Center
- 2023 Updates on the Neuropsychiatric Assessment of Functional Neurological Disorder
Grand Rounds, Department of Psychiatry
Sheppard Pratt, Maryland
- 2023 Treatment of Functional Movement Disorder
Invited Speaker, American Academy of Neurology Annual Meeting (Boston)
- 2023 Functional Neurological Disorder: A Neuropsychiatric Approach
Invited Speaker: American Psychiatric Association Annual Meeting (San Francisco)

International

- 2017 Psychiatric Characterization in Functional Neurological Disorders: Plenary Lecture
3rd International Conference on Functional Neurological Disorders, Edinburgh, Scotland
- 2019 Building a Clinical and Research Program in Functional Neurological Disorders:
Lessons Learned
- Featured keynote speaker for a half-day symposium on functional neurological disorders at the Toronto Western Hospital, Toronto, Canada

- 2019 Update: Assessment and Management of Functional Neurological Disorders
UBC Neuropsychiatry Grand Rounds, Vancouver, Canada
- 2020 Notes from the First International Imaging Workgroup Meeting in FND – given jointly
with Dr. Selma Aybek of Bern University, Switzerland
- Functional Neurological Disorders Society Online Educational Webinar Series
- 2021 The Neurobiology of Functional Neurological Disorder
King’s College London Neuropsychiatry (Virtual) Lecture Series, London, UK
- 2021 Functional Connectivity Analyses in Neuropsychiatry
Annual (Virtual) Meeting on Imaging and Electrophysiology in Neurology, Neurosurgery
And (cognitive) Neuroscience, Bochum, Germany
- 2021 Enhancing Cross Talk Between Neurology & Psychiatry: Opportunities & Challenges
WPA World Congress (Virtual) on Psychiatry
- 2022 Functional Neurological Disorder: Clinical Assessment and Neurobiology Pearls
First Annual Conference of the Saudi Chapter of Cognitive and Behavioral Neurology
- 2022 The Neurobiology of Functional Neurological Disorder: Lessons Learned
The University of Cambridge, UK, Department of Psychiatry
- 2022 The Neuropsychiatric Approach to the Assessment of Functional Neurological Disorder
4th International Conference on Functional Neurological Disorder, Boston, MA
- 2022 Functional Neurological Disorder – A Core Neuropsychiatric Disorder
4th International Conference on Functional Neurological Disorder, Boston, MA
- 2022 The Neuropsychiatric Approach to the Assessment of Functional Neurological Disorder
Functional Neurological Disorders International Conference, Ukrainian Medical Academy
- 2023 Using the Biopsychosocial Model to Guide (Outpatient) Care in Functional Neurological
Disorder. FND Society Sponsored Virtual Course: Functional Neurological Disorder –
Putting Principles into Practice

Report of Clinical Activities and Innovations

Current Licensure and Certification

- 2010- Massachusetts Medical License
- 2011- Board Certified in Neurology, American Board of Neurology and Psychiatry
- 2014- Board Certified in Psychiatry, American Board of Neurology and Psychiatry
- 2018- United Council for Neurologic Subspecialties – Certified in Behavioral Neurology &
Neuropsychiatry

Practice Activities

2014-	Outpatient Clinic	Behavioral Neurology (FND Clinic) MGH	8 hours per week
2014- 2018	Outpatient Clinic	Frontotemporal Disorders MGH	2 hours per week
2014- 2020	Outpatient Clinic	Neuropsychiatry (FND Clinic) MGH	2 hours per week
2015-	Inpatient Consultation Service	General Neurology MGH	Four weeks per year
2021-	Outpatient Clinic	FND Clinic	8 hours per week

Clinical Innovations

Establishment and growth of the MGH Functional Neurological Disorders Clinic (2014-)

I have established and directed across the departments of the Neurology and Psychiatry one of the first outpatient-based interdisciplinary programs for Functional Neurological Disorders in the country. In this program, we have brought together neurologists, psychiatrists, physical and occupational therapists, speech and language pathologists, social workers, and psychologists to comprehensively assess and manage this population; we are also teaching residents and fellows across neurology and psychiatry in our approaches and recently received an educational grant by the Sidney R. Baer Jr. Foundation to expand our teaching efforts. We receive referrals from across the country including Texas, Colorado, Pennsylvania, Georgia, New York and the extended New England area, and have published educational articles detailing our novel clinical approaches.

Development of clinical recommendations for the MGH inpatient assessment of functional neurological disorders (2016-2017)

Together with my mentee Dr. Kathleen McKee, and in collaboration with inpatient clinical leadership across neurology and psychiatry, I led the development of clinical guidelines for the assessment and management of functional neurological disorders on the inpatient Raymond D. Adams Neurology service at Massachusetts General Hospital. We have subsequently published these recommendations, and our approach is also included in the MGH neurology handbook provided to all incoming residents.

Report of Scholarship

ORCID: 0000-0003-2721-583X

Publications

Peer reviewed publications in print or other media

Research Investigations (Peer Reviewed)

1. Rogan MT, Leon K, **Perez DL**, Kandel ER. Distinct neural signatures for safety and danger in the amygdala and striatum of the mouse. *Neuron*. 2005 Apr 21;46(2):309-20.
2. Pollack D, Rogan M, Egner T, **Perez DL**, Yanagihara T, Hirsh J. A Translational bridge between mouse and human models of learned safety. *Annals of Medicine*. 2010 Mar: 42(2); 127-134.
3. Espinosa PS, **Perez DL**, Abner E, Ryan M. Association of antiepileptic drugs, vitamins, and calcium supplementation with bone fracture occurrence in epilepsy patients. *Clinical Neurology and Neurosurgery*. 2011 Sep; 113(7):548-51. Epub 2011 Apr 19.
4. Epstein J, **Perez DL**, Ervin K, Pan H, Kocsis J, Butler T, Stern E, Silbersweig D. Failure to segregate emotional processing from cognitive and sensorimotor processing in major depression. *Psychiatry Research: Neuroimaging*. 2011 Sep; 193(3):144-50. Epub 2011 Jul 20.
5. Reinsberger C, **Perez DL**, Murphy MM, Dworetzky BA. Pre- and post-ictal, not ictal, heart rate distinguishes complex partial and psychogenic non-epileptic seizures. *Epilepsy & Behavior*. 2012 Jan; 23(1):68-70.

6. **Perez DL**, Dickerson BC, McGinnis SM, Sapolsky D, Johnson K, Searl M, Daffner KR. You don't say: dynamic aphasia, another variant of primary progressive aphasia? *Journal of Alzheimer's Disease*. 2013 Jan 1;34(1):139-44.
7. Baslet G, Dworetzky B, **Perez DL**, Oser M. Treatment of psychogenic nonepileptic seizures: updated review and findings from a mindfulness-based intervention case series. *Clinical EEG and Neuroscience*. 2015 Jan;46(1):54-64.
8. Reinsberger C, Sarkis R, Papadelis C, Doshi C, **Perez DL**, Baslet G, Loddenkemper T, Dworetzky B. Autonomic changes in psychogenic non-epileptic seizures (PNES): towards a potential diagnostic biomarker? *Clinical EEG and Neuroscience*. 2015 Jan;46(1):16-25.
9. **Perez DL**, Pan H, Weisholtz DA, Root JC, Tuescher O, Fischer DB, Butler T, Vago DR, Isenberg N, Epstein J, Landa Y, Smith TE, Savitz AJ, Silbersweig DA, Stern E. Altered threat and safety neural processing linked to persecutory delusions in schizophrenia: a two-task fMRI study. *Psychiatry Research: Neuroimaging*. 2015 Sep 30;233(3):352-66.
10. **Perez DL**, Vago DR, Pan H, Root J, Tuescher O, Fuchs BH, Leung L, Epstein J, Cain NM, Clarkin JF, Lenzenweger MF, Kernberg O, Levy LK, Silbersweig DA, Stern E. Frontolimbic neural circuit changes in emotional processing and inhibitory control associated with clinical improvement following transference-focused psychotherapy in borderline personality disorder. *Psychiatry and Clinical Neuroscience*. 2016 Jan;70(1):51-61.
11. Fischer DB*, **Perez DL***, Prasad S, Rigolo L, O'Donnell L, Acar, D, Meadows ME, Baslet G, Boes AD, Golby AJ, Dworetzky BA. Right inferior longitudinal fasciculus lesions disrupt visual-emotional integration. *Social Cognitive and Affective Neuroscience*. 2016 Jun;11(6):945-51.
12. Ortiz-Teran L, Ortiz T, **Perez DL**, Aragon JI, Diez I, Pascual-Leone A, Sepulcre J. Brain plasticity in blind subjects centralizes beyond the modal cortices. *Frontiers in Systems Neuroscience*. 2016 Jul 8;10:61.
13. **Perez DL**, Young SS**, King, JN, Guarino AJ, Dworetzky BA, Flaherty A, Chemali, Z, Caplan, D, Dickerson BC. Preliminary predictors of initial attendance, symptom burden, and motor subtype in a US functional neurological disorders clinic population. *Cognitive and Behavioral Neurology*. 2016 Dec;29(4):197-205
14. Matin N**, Young SS**, Williams B**, LaFrance WC Jr, King JN, Caplan D, Chemali Z, Weilburg JB, Dickerson BC, **Perez DL**. Neuropsychiatric associations with gender, illness duration, work disability and motor subtype in a US functional neurological disorders clinic population. *J Neuropsychiatry Clin Neurosci*. 2017 Fall;29(4):375-382.
15. **Perez DL**, Matin N**, Barsky A, Costumero-Ramos V, Makaretz SJ**, Young SS**, Sepulcre J, LaFrance WC Jr, Keshavan MS, Dickerson BC. Cingulo-insular structural alterations associated with psychogenic symptoms, childhood abuse and PTSD in functional neurological disorders. *Journal of Neurology, Neurosurgery & Psychiatry*. 2017 Jun;88(6):491-497.
16. Ortiz-Teran L, Diez I, Ortiz T, **Perez DL**, Aragon JI, Costumero V, Pascual-Leone A, El Fakhri G, Sepulcre J. Brain Circuit-Gene Expression Relationships in Neuroplasticity: An Integrative Role for

Multisensory Cortices in Blind Children. *Proceedings of the National Academy of Sciences of the United States of America*. 2017 Jun 27;114(26):6830-6835.

17. **Perez DL**, Williams B**, Matin N**, LaFrance WC, Costumero-Ramos V, Fricchione GL, Sepulcre J, Keshavan MS, Dickerson BC. Corticolimbic structural alterations linked to health status and trait anxiety in functional neurological disorder. *Journal of Neurology, Neurosurgery & Psychiatry*. 2017 Dec;88(12):1052-1059.

- Featured in an invited Podcast by JNNP

18. **Perez DL***, Matin N*, Williams B, Tanev K, Makris N, LaFrance WC, Dickerson BC. Cortical thickness alterations linked to somatoform and psychological dissociation in functional neurological disorders. *Human Brain Mapping*. 2018 Jan;39(1):428-439.

19. Glass SP**, Matin N**, Williams B**, Mello J, Stephen CD, Young SS**, Callahan J, LaFrance WC Jr, **Perez DL**. Neuropsychiatric factors linked to adherence and short-term outcome in a US functional neurological disorders clinic: a retrospective cohort study. *J Neuropsychiatry Clin Neurosci*. 2018 Spring;30(2):152-159.

20. **Perez DL**, Williams B**, Matin N**, Mello J, Dickerson BC, LaFrance WC Jr, Keshavan MS. Anterior Hippocampal Grey Matter Predicts Mental Health Outcome in Functional Neurological Disorders: An Exploratory Pilot Study. *Journal of Neurology, Neurosurgery & Psychiatry*. 2018 Nov;89(11):1221-1224.

21. Jalilianhasanpour R**, Williams B**, Gilman I, Burke MJ**, Glass S**, Fricchione GL, Keshavan MS, LaFrance WC Jr, **Perez DL**. Resilience linked to personality dimensions, alexithymia and affective symptoms in motor functional neurological disorders. *J Psychosom Res*. 2018 Apr;107:55-61.

22. Williams B**, Jalilianhasanpour R**, Matin N**, Fricchione GL, Sepulcre J, Keshavan MS, LaFrance WC Jr, Dickerson BC, **Perez DL**. Individual differences in corticolimbic structural profiles linked to insecure attachment and coping styles in motor functional neurological disorders. *J Psychiatr Res*. 2018 Apr 6;102:230-237.

23. Xin Q, Ortiz-Teran L, Diez I, **Perez DL**, Ginsburg J, El Fakhri G, Sepulcre J. Sequence alterations of cortical genes linked to individual connectivity of the human Brain. *Cerebral Cortex* 2019 Aug 14;29(9):3828-3835.

24. Jalilianhasanpour R**, Ospina JP**, Williams B**, Mello J, MacLean J, Ranford J, Fricchione GL, LaFrance WC Jr, **Perez DL**. Secure attachment and depression predict 6-month outcome in motor functional neurological disorders: a prospective pilot study. *Psychosomatics*. 2019 Jul - Aug;60(4):365-375.

25. Williams B**, Ospina JP**, Jalilianhasanpour R**, Fricchione GL, **Perez DL**. Fearful attachment linked to childhood abuse, alexithymia, and depression in motor functional neurological disorders. *J Neuropsychiatry Clin Neurosci*. 2019 31(1):65-69.

26. Diez I**, Ortiz-Teran L, Williams B**, Jalilianhasanpour R**, Ospina JP**, Dickerson BC, Keshavan MS, LaFrance WC Jr., Sepulcre J, **Perez DL**. Corticolimbic fast-tracking: enhanced

multimodal integration in functional neurological disorder. *Journal of Neurology, Neurosurgery & Psychiatry*. 2019 Aug;90(8):929-938.

- Featured in an invited Podcast and Editorial by JNNP

27. Popkirov S, Nicholson TR, Bloem BR, Cock HR, Derry CP, Duncan R, Dworetzky BA, Edwards MJ, Espay AJ, Hallett M, Lang AE, Leach JP, Lehn A, McGonigal A, Morgante F, **Perez DL**, Reuber M, Richardson MP, Smith P, Stamelou M, Tijssen MAJ, Tinazzi M, Carson AJ, Stone J. Hiding in Plain Sight: Functional Neurological Disorders in the News. *J Neuropsychiatry Clin Neurosci*. 2019 Fall;31(4):361-367.

28. Ospina JP**, Larson AG**, Jalilianhasanpour R**, Williams B**, Diez I**, Dhand A, Dickerson BC, **Perez DL**. Individual differences in social network size linked to nucleus accumbens and hippocampal volumes in functional neurological disorder: A pilot study. *Journal of Affective Disorders*. 2019 258: 50-54.

29. Diez, I**, Williams B**, Kubicki M, Makris N, **Perez DL**. Reduced Limbic Microstructural integrity in functional neurological disorder. *Psychol Med*. 2019 Nov 26:1-9.

30. Maggio JB**, Ospina JP**, Callahan J, Hunt AL, Stephen CD, **Perez DL**. Outpatient physical therapy for functional neurological disorder: a preliminary feasibility and naturalistic outcome study in a US cohort. *J Neuropsychiatry Clin Neurosci*. 2020 Winter;32(1):85-89.

31. Diez, I**, Larson AG**, Nakhate V**, Dunn EC, Fricchione GL, Nicholson TR, Sepulcre J, **Perez DL**. Early-life trauma endophenotypes and brain circuit-gene expression relationships in functional neurological (conversion) disorder. *Molecular Psychiatry*. 2021 Aug;26(8):3817-3828.

32. Ranford J**, MacLean J**, Alluri PR**, Comeau O, Godena E, LaFrance WC Jr., Hunt A, Stephen CD, **Perez DL**. Sensory processing difficulties in functional neurological disorder: a possible predisposing vulnerability? *Psychosomatics*. 2020 61(4):343-352.

33. Eldaief MC, **Perez DL**, Quimby M, Hochberg D, Touroutoglou A, Feldman-Barrett L, Dickerson BC. Atrophy in distinct corticolimbic networks subserving socioaffective behavior in semantic-variant primary progressive aphasia. *Dement Geriatr Cogn Disord*. 2021 Mar 10:1-9.

34. Sojka P**, Diez I**, Bares M, **Perez DL**. Individual differences in interoceptive accuracy and prediction error in motor functional neurological disorders: a DTI study. *Human Brain Mapping*. 2021 Apr 1;42(5):1434-1445.

35. Stephen CD, **Perez DL**, Chibnik LB, Sharma N. Functional dystonia: a case-control study and risk prediction algorithm. *Ann Clin Transl Neurol*. 2021 Mar 16.

36. Paredes-Echeverri S**, Maggio J, Bègue I, Pick S, Nicholson TR, **Perez DL**. Autonomic, endocrine and inflammation profiles in functional neurological disorder: a systematic review and meta-analysis. *J Neuropsychiatry Clin Neurosci*. 2022;34(1):30-43.

37. Picon EL, **Perez DL**, Burke M, Debert CT, Iverson GL, Panenka WJ, Silverberg ND. Unexpected symptoms after concussion: potential links to functional neurological and somatic symptom disorders. *J Psychosom Res*. 2021 Dec;151:110661.

38. Zelinski L, Diez I, **Perez DL**, Kotz SA, Wellmer J, Schlegel U, Popkirov S, Jungilligens J**. Cortical thickness in default mode network hubs correlates with clinical features of dissociative seizures. *Epilepsy & Behavior*. 2022 Mar;128:108605.
39. Picon EL, Todorova E, Palombo DJ, **Perez DL**, Howard A, Silverberg ND. Memory perfectionism is associated with persistent memory complaints after concussion. *Arch Clin Neuropsychology*. 2022. Aug 23;37(6):1177-1184.
40. Sojka P**, Slovak M, Vechetova G, Jech R, **Perez DL**, Serranova T. Bridging Structural and Functional Biomarkers in Functional Movement Disorder Using Network Mapping. *Brain Behav*. 2022. May;12(5):e2576.
41. Jungilligens J**, Popkirov S, **Perez DL**, Diez I. Linking gene expression patterns and brain morphometry to trauma and symptom severity in patients with functional seizures. *Psychiatry Research: Neuroimaging*. 2022 Aug 27;326:111533. Note: Perez & Diez are co-senior authors.
42. Paredes-Echeverri S**, Guthrie A**, **Perez DL**. Towards a possible trauma subtype of functional neurological disorder: impact on symptom severity and physical health. *Front Psychiatry*. 2022 Nov 15;13:1040911.
43. Polich G, Zalanowski S, Lewis JM, Sugarman S, Christopoulos K, Hebb C, **Perez DL**, Baslet G, Shah P, Herman S. Inpatient rehabilitation for acute presentations of motor functional neurological disorder (FND): A retrospective cohort study. *Am J Phys Med Rehabil*. 2023 Jun 1.
44. Goldstein AN**, Paredes-Echeverri**, Finkelstein S, Guthrie AJ**, **Perez DL**, Freeburn J. Speech and language therapy: a treatment case series of 20 patients with functional speech disorder. *NeuroRehabilitation*. 2023. (In Press).

Other Peer-Reviewed Publications

1. **Perez DL**, Diamond EL, Castro CM, Diaz A, Buonanno F, Nogueira RG, Sheth K. Factor XIII deficiency related recurrent spontaneous intracerebral hemorrhage: A case and literature review. *Clinical Neurology and Neurosurgery*. 2011 Feb; 113(2):142-5. Epub 2010 Oct 14.
2. **Perez DL**, Catenaccio E, Epstein J. Confusion, hyperactive delirium, and secondary mania in right Hemispheric strokes: A focused review of neuroanatomical correlates. *Journal of Neurology and Neurophysiology*. 2011. S1. doi:10.4172/2155-9562.S1-003.
3. **Perez DL**, Barsky A, Daffner K, Silbersweig DA. Motor and somatosensory conversion disorder: a functional unawareness syndrome? *J Neuropsychiatry Clin Neurosci*. 2012 Mar;24:141-151.
4. Biswas J, Chu AJ, **Perez DL**, Gutheil TG. All roads lead to Rome. From the neuropsychiatric to the analytic: three perspectives on dissociative identity disorder. *Harvard Review of Psychiatry*. 2013 Jan Feb; 21:41-51.
5. Cho-Park YA, **Perez DL**, Milligan TA, Cho PF. Radiographic evolution of a rapidly reversible leukoencephalopathy due to metronidazole. *Neurology: Clinical Practice*. 2013; 3(3):272-274.

6. **Perez DL**, Dworetzky BA, Dickerson BC, Leung L, Cohn R, Baslet G, Silbersweig DA. An integrative neurocircuit perspective on psychogenic non-epileptic seizures and functional movement disorders: neural functional unawareness. *Clinical EEG and Neuroscience*. 2015 Jan;46(1):4-15.
7. Dworetzky BA, Weisholtz DS, **Perez DL**, Baslet G. A clinically oriented perspective on psychogenic nonepileptic seizures. *Clinical EEG and Neuroscience*. 2015 Jan;46(1):26-33.
8. **Perez DL**, Barsky A, Vago D, Baslet G, Silbersweig DA. A neural circuit framework for somatosensory amplification in somatoform disorders. *J Neuropsychiatry Clin Neurosci*. 2015 27(1):e40-50.
9. Torous J, Stern AP, Padmanabhan JL, Keshavan MS, **Perez DL**. A proposed solution to integrating cognitive-affective neuroscience and neuropsychiatry in psychiatry residency training: the time is now. *Asian Journal of Psychiatry*. 2015 Oct;17:116-21.
10. **Perez DL**, LaFrance WC Jr. Nonepileptic seizures: an updated review. *CNS Spectrums*. 2016 Jun;21(3):239-46.
11. Chandra Parul, Kozłowska K, Cruz C, Baslet GC, **Perez DL**, Garralda ME. Hyperventilation-induced non-epileptic seizures in an adolescent boy with pediatric medical traumatic stress. *Harvard Review of Psychiatry*. 2017 Jul/Aug;25(4):180-190.
12. Stephen CD, Sharma N, Callahan J, Carson A, **Perez DL**. A case of functional dystonia with associated functional neurological symptoms: diagnostic and therapeutic challenges. *Harvard Review of Psychiatry*. 2017 Sep/Oct;25(5):241-251.
13. McKee K**, Glass S**, Adams C**, Stephen CD, King F, Parlman K, **Perez DL***, Kontos N*. The inpatient assessment and management of motor functional neurological disorders: an interdisciplinary perspective. *Psychosomatics* 2018 Jul - Aug;59(4):358-368.
 - Featured in a *Psychiatry Times* article
14. Peterson KT, Kosior R, Meek BP, Ng M, **Perez DL**, Modirrousta M. Right temporoparietal junction transcranial magnetic stimulation in the treatment of psychogenic nonepileptic seizures: a case series. *Psychosomatics*. 2018 Nov;59(6):601-606.
15. Adams C**, Anderson J**, Madva EN**, LaFrance WC Jr, **Perez DL**. You've made the diagnosis of functional neurological disorder: now what? *Pract Neurol*. 2018 Aug;18(4):323-330.
16. **Perez DL**, Keshavan MS, Scharf J, Boes A, Price B. Bridging the great divide: what can neurology learn from psychiatry. *J Neuropsychiatry Clin Neurosci*. 2018 Fall;30(4):271-278.
 - Top 5 most downloaded articles from the journal in 2018
17. Pick S, Goldstein LH, **Perez DL***, Nicholson TR*. Emotional processing in functional neurological disorder: a review, biopsychosocial model and research agenda. *Journal of Neurology, Neurosurgery & Psychiatry*. 2019 Jun;90(6):704-711.
 - 19 citations in the first year – widely recognized as an important neurobiological model for FND

18. Anderson JR**, Nakhate V**, Stephen CD, **Perez DL**. Functional (psychogenic) neurological disorders: assessment and acute management in the emergency department. *Seminars in Neurology* 2019 Feb;39(1):102-114.
19. Bègue I**, Adams C**, Stone J, **Perez DL**. Structural alterations in functional neurological disorder and related conditions: a software *and* hardware problem? *Neuroimage Clinical* 2019.
20. **Perez DL**, Haller AL, Espay AJ. Should neurologists diagnose and manage functional neurological disorders? It is complicated. *Neurology: Clinical Practice* 2019 9(2):165-167.
- Companion article to Dr. Perez's 2018 AAN Plenary Session on this topic
21. Khachane Y, Savage B, McClure G, Butler G, Gray N, Worth A, Mihailovich A, **Perez DL**, Kozłowska K. Twisted in pain: The multidisciplinary treatment approach to functional dystonia. *Harvard Review of Psychiatry*. 2019 Nov/Dec;27(6):359-381.
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Cautionary notes on diagnosing functional neurological disorder as a neurologist-in-training
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[Thesis](#)

1. Clinical and neuroimaging investigations in neuropsychiatric disorders.

2016 Masters of Medical Science in Clinical and Translational Investigation, Harvard Medical School.

Narrative Report

I am a neurologist-psychiatrist, cognitive-affective neuroscientist, and neuroimaging researcher with nationally-internationally recognized expertise in Functional Neurological Disorder (FND). I am among only a few clinicians triple board certified in Neurology, Psychiatry, and Behavioral Neurology–Neuropsychiatry in the US, and received the 2012 American Neuropsychiatric Association (ANPA) Young Investigator and 2014 Career Development Awards. I have been elected a “Fellow” of the American Academy of Neurology (FAAN, 2021) and the American Neuropsychiatric Association (FANPA, 2022). At MGH, I am the founding director of the multidisciplinary FND Unit and FND Research Group. My clinical and research activities have been recognized by the international community as highly innovative with regards to pioneering the development of an outpatient interdisciplinary model of care for FND. My lab is also amongst the leaders internationally in identifying transdiagnostic MRI biomarkers of symptoms severity, disease risk and prognosis in patients with FND, highlighting an important role for the salience (cingulo-insular) network in the pathophysiology of FND.

As an innovator in the development of an outpatient clinical approach to functional motor symptoms, I have established (2014) and grown the MGH FND Clinic. In 2021, this program was formally designated as the FND Unit within the MGH Department of Neurology. Our FND Unit receives referrals throughout the US, including Texas, Colorado, New York, and Georgia among other locations, seeing ~230 new patients annually across 322 clinic sessions/year (including supervising behavioral neurology-neuropsychiatry and consultation liaison psychiatry fellows). We provide integrated neuropsychiatric evaluations and develop a biopsychosocial-informed treatment plan emphasizing motor rehabilitation and skills-based psychotherapies. To teach others about our program, I gave plenary lectures on FND at the 2017 3rd International Conference on FND in Edinburgh and the 2018 American Academy of Neurology meeting, as well as the keynote address for a half-day FND symposium at the Toronto Western Hospital in 2019. I co-directed a 1.5-day CME Spaulding Hospital conference on FND in 2019 (with 105 attendees), and have lectured on FND in several national meetings. I am/have guest co-edited three Special Issues on FND: a 2015 issue of *Clinical EEG & Neuroscience*, a 2020 issue of *The Journal of Neuropsychiatry and Clinical Neurosciences* and a 2023 issue of *Neurologic Clinics*. I am also a founding member of the international Functional Neurological Disorder Society, elected to their Board of Directors in 2022. In 2022, I was an invited plenary speaker on the topic of “FND – A Core Neuropsychiatric Disorder” at the 4th International FND Conference – a topic that relates to the innovative clinical and research programs developed at MGH. Together with Dr. Nicholson of King’s College, London, I also gave a workshop on the “Neuropsychiatric Approach to FND” at the 2022 international conference. Furthermore, I am one of 45 members of the international FND Core Outcomes Group (11 from the US), and recently co-authored two articles published by this group standardizing outcome measures in the FND field. My activities have culminated in serving as a co-editor of a 32-chapter Springer textbook on Functional Movement Disorder: A Case-Based Interdisciplinary Approach (2022). I am also the co-PI of a 4-year (850K) foundation grant establishing a clinician-scientist track for our MGH Behavioral Neurology-Neuropsychiatry fellowship, with a dedicated FND clinic rotation.

With regards to my teaching of Harvard Medical School students, residents, and fellows, I attend four weeks per year on the comprehensive neurology consultation service at the Massachusetts General Hospital. On this service, we generally spend four hours per day on in-person clinical case discussions and bedside examinations (112 hours of teaching per year). Since 2014, I have also consistently supervised at least one behavioral neurology-neuropsychiatry fellow in approximately 7 half-day clinics per year largely dedicated in large part to the assessment and management of FND. Since 2016, I have also supervised consultation-liaison psychiatry fellows in a dedicated FND clinic rotation (monthly sessions). Furthermore, I lecture annually to neurology and psychiatry residents/fellows in the assessment and management of FND across clinical settings.

I am also the director of the MGH FND Research Group, a growing and well-respected research laboratory in FND. My lab aims to identify clinical and neuroimaging markers of symptom severity, disease risk and prognosis in patients with FND. I have published highly cited neurobiological models, and my lab is amongst the leaders internationally in the use of structural and functional neuroimaging to investigate brain-symptom severity, brain-trauma, and brain-prognosis relationships in FND (137 articles to date including original research articles, reviews, book chapters, and letters to the editor etc.). I have published first author articles in the *Journal of Neurology, Neurosurgery and Psychiatry* and *Human Brain Mapping*, and senior author articles in *Journal of Neurology, Neurosurgery and Psychiatry, Molecular Psychiatry, Brain, Psychological Medicine, Human Brain Mapping*, and *Neuroimage: Clinical* among others. I am also the co-chair of the Neuroimaging Committee for the Functional Neurological Disorder Society. Our identification of salience network biomarkers predicting 6-month clinical outcomes were the first such studies in the field. I have received several research grants including R01 (2021) and K23 (2017) awards from the NIMH, as well as the 2016 MGH Physician-Scientist Development Award and two Sidney R. Baer Jr. Foundation research awards. My research has been featured in podcasts by the *Journal of Neurology, Neurosurgery and Psychiatry* and webinars by the international patient advocacy group FNDHope.