

## Curriculum Vitae

**Date Prepared:** February 2023  
**Name:** David J. Lin, MD  
**Office Address:** Center for Neurotechnology and Neurorecovery, Massachusetts General Hospital,  
175 Cambridge Street, Suite 300, Boston, MA 02114  
**Work Phone:** 626-375-4171  
**Work Email:** dlin7@mgh.harvard.edu  
**Place of Birth:** Montreal, Canada

### Education:

06/2006	BS	Mathematical and Computational Science <i>with Honors</i>	Stanford University
06/2013	MD	Doctor of Medicine, <i>Magna Cum Laude</i>	Harvard Medical School

### Postdoctoral Training:

07/13-06/14	Intern	Internal Medicine	Massachusetts General Hospital/Harvard Medical School
07/14-06/17	Resident	Neurology	Massachusetts General Hospital/Brigham & Women's Hospital/Harvard Medical School
07/17-06/18	Fellow	Neurorecovery	Massachusetts General Hospital/Spaulding Rehabilitation Hospital/Harvard Medical School
07/18-06/20	Fellow	Neurocritical Care	Massachusetts General Hospital/Brigham & Women's Hospital/Harvard Medical School

### Faculty Academic Appointments:

09/19-	Assistant Professor (Adjunct Faculty)	Rehabilitation Sciences	MGH Institute of Health Professions
07/20-01/22	Instructor	Neurology	Harvard Medical School
01/22-	Assistant Professor	Neurology	Harvard Medical School

**Appointments at Hospitals/Affiliated Institutions:**

11/14-	Visiting Scientist	Engineering	Brown University
07/20-	Assistant in Neurology	Neurology	Massachusetts General Hospital
10/20-	Staff Neurologist, Core Investigator	Neurology, Research, Center for Neurorestoration and Neurotechnology (C/NN)	Providence VA Medical Center

**Other Professional Positions:**

2017-2019	Consultant	Boehringer Ingelheim Int.	
2020-	Consultant	MGH Translational Research Center	5 days per year
2022-	Consultant	Neurotrauma Sciences	1 day per year

**Major Administrative Leadership Positions:****Local**

2020-	Director, MGH Neurorecovery Clinic	Department of Neurology, Massachusetts General Hospital
2020-	Director, MGH Neurorecovery Fellowship	Department of Neurology, Massachusetts General Hospital

**Committee Service:****Local**

2015-2016	Residency Selection Committee	Partners Neurology Residency, Massachusetts General Hospital, Brigham and Women's Hospital Trainee Member
2016-2018	Educational Leadership Committee	Brigham and Women's Hospital Trainee Member
2017-2019	Graduate Medical Education Committee	Massachusetts General Hospital Trainee Member

**Professional Societies:**

2015-	American Academy of Neurology	Member
2016-	Society for Neuroscience	Member

2017-2018	American Congress of Rehabilitation Medicine	Member
2018-	American Heart Association	Member
2019-	American Society of Neurorehabilitation	Member

#### Grant Review Activities:

2022	CHHD-K Function, Integration, and Rehabilitation Sciences Study Section	NIH
2022		Ad hoc Member

#### Editorial Activities:

- **Ad hoc Reviewer**

*Annals of Medicine, Annals of Clinical and Translational Neurology, BMJ Open, Brain, IEEE Transactions on Neural Systems and Rehabilitation Engineering, Journal of Neuroengineering, Journal of Neuroengineering and Neurorehabilitation, Journal of Stroke and Cerebrovascular Disease, Lancet Neurology, Nature Neuroscience, Nature Scientific Reports, Neurology, Neurorehabilitation and Neural Repair, Neural Regeneration Research, Stroke*

- **Other Editorial Roles**

2018-2019	Invited Guest Editor	<i>Frontiers in Neurology, Performance and Participation Outcomes for Individuals with Neurological Conditions, Special Issue</i>
-----------	----------------------	-----------------------------------------------------------------------------------------------------------------------------------

#### Honors and Prizes:

2006	Mathematical and Computational Science Departmental Honors	Stanford University	Undergraduate scholastic achievement
2010	Elizabeth D. Hay Prize for Basic Science	Harvard Medical School	Research
2010	Nancy Lurie Marks Scholar in Medicine	Harvard Medical School	Research
2010	Howard Hughes Medical Institute Fellowship	Howard Hughes Medical Institute	Research
2011	Martha Gray Prize in Physiology and Systems Biology	Harvard-MIT	Research
2012	Medical Student Travel Award	American Academy of Neurology	Research
2013	Medical Student Prize for Excellence	American Academy of Neurology	Clinical
2013	Magna Cum Laude	Harvard Medical School	Research

2014	Travel Award	American Neurological Association	Research
2016	Medical Education Champion	Partners Neurology Residency	Clinical teaching
2016	NIH R25 Research Education Program for Residents and Fellows Awardee	National Institutes of Health, National Institute of Neurological Disorders and Stroke	Research
2017	Travel Award	American Neurological Association	Research
2017	Clinical Research Award	Massachusetts General Hospital, Department of Neurology	Research
2017	Resident Teaching Award	Massachusetts General Hospital, Department of Neurology	Clinical teaching
2018	Travel Award	American Neurological Association	Research
2018	Clinical Research Award	Massachusetts General Hospital, Department of Neurology	Research
2018	Poster Award	American Congress of Rehabilitation Medicine	Research
2018	Stroke Tank “Pitch it to the Judges” Winner	American Heart Association/American Stroke Association, Northeast Cerebrovascular Consortium	Research
2020	NIH Loan Repayment Program Awardee	National Institutes of Health, National Institute of Neurological Disorders and Stroke	Research
2020	K12 Scholar	Neurorehabilitation and Restorative Neuroscience Training Network (NRNTN)	Research
2021	Leadership Development Program for Researchers	Massachusetts General Hospital Center for Faculty Development	Research
2021	Training in Grantsmanship for Rehabilitation Research Awardee	Medical University of South Carolina	Research
2021	Ally for Women Award Nominee	Massachusetts General Hospital Center for Faculty Development	Clinical
2022	Neurocritical Fellowship Class Faculty Appreciation Award	Massachusetts General Hospital, Brigham and Women’s Hospital, Neurocritical Care Divisions	Clinical

### **Report of Funded and Unfunded Projects**

#### **Past**

2018-2021     Defining Stroke Recovery Across the Post-Acute Care Continuum

American Heart Association/American Stroke Association/Northeast Cerebrovascular Consortium

PI

The goals of this project are to develop a model to predict recovery of upper extremity impairment after stroke using clinically available data and to define relationships between upper extremity impairment/activity measures and stroke outcome/quality metrics.

- 2020-2021 Scalable Prediction of Arm Motor Recovery after Stroke and Comprehensive Assessments of its Impact on Disability  
American Society of Neurorehabilitation, Seed Funding for Collaboration  
PI (\$5000 – total direct costs)  
The goals of this project are to (1) develop analytic models to predict arm motor recovery with our data and (2) refine optimal measures of stroke recovery across ICF domains. This is a collaborative ASNR seed project.
- 2020-2021 Defining the Neuroanatomy and Neurophysiology of Recovery after Brain Hemorrhage  
Heitman Foundation, Young Investigator Award  
PI (\$86,957 – total direct costs)  
The goals of this project are to (1) define how structural topography of primary ICH influences trajectory of arm recovery and (2) determine how EEG spectral slowing correlates cross-sectionally and longitudinally with arm motor recovery scores.
- 2020-2022 Integrating Measures of Neuroanatomy and Neurophysiology to Decipher Motor Recovery after Stroke  
American Academy of Neurology, Clinical Research Training Scholarship  
PI (\$150,000 – total direct costs)  
The goals of this project are to (1) determine which neurophysiologic measures of motor cortical function and functional connectivity best explain arm motor recovery after stroke and (2) define how neuroanatomic measures of CST injury and neurophysiologic measures of motor cortical circuits together explain arm motor recovery.
- 2020-2022 Targeting Neuroplasticity with Brain Computer Interfaces to Maximize Motor Recovery for Veterans with Stroke  
Department of Veterans Affairs Career Development Award 1, IK1 RX003563  
PI (\$400,419 – total direct costs)  
The goals of this project are to (1) identify longitudinal changes in cortical functional connectivity induced by EEG-BCI arm orthosis training and (2) evaluate how baseline motor severity and neuroanatomy of stroke injury modulates the effects of EEG-BCI arm orthosis training on cortical functional connectivity.

## **Current**

- 2022-2025 Determining the Implicit and Rule-Based Learning Ability of Individuals with Aphasia to Better Align Learning Ability and Intervention  
NIH R21, DC020546  
Consultant (PI Erin Meier) (\$354,468 – total direct costs)  
The aims of this study are to determine the subacute rs-fNIRS functional connectivity patterns that are (1) are associated with subacute language deficits, (2) change over time and are related to longitudinal language changes, and (3) predict language gains by the early chronic stroke stage.

- 2021-2023     Determining the Implicit and Rule-Based Learning Ability of Individuals with Aphasia to Better Align Learning Ability and Intervention  
NIH R21, DC019203  
Consultant (PI Sofia Vallila Rohter) (\$480,000 – total direct costs)  
The objectives of the proposed study are to (1) determine the learning phenotype of individuals with aphasia, and (2) examine how lesion characteristics (size and location of damage to the brain), language ability, and cognitive ability relate to learning ability.
- 2021-2023     A Portable fNIRS-based Brain-Computer Interface to Augment Post-Stroke Motor Rehabilitation  
Axem Neurotechnology Inc  
PI (\$141,573 – total direct costs)  
The present study will help determine how a novel, portable fNIRS-based BCI system may be utilized clinically to promote upper-extremity recovery in chronic stroke survivors.
- 2022-2026     Predictability in Complex Object Control  
NIH R37, HD087089  
Co-I (PI Dagmar Sternad) (\$2,011,011 – total direct costs)  
The goals of this project are to objectively quantify upper extremity coordination challenges in stroke patients and phenotype profiles of recovery.
- 2022-2027     Deconstructing Post-Stroke Hemiparesis for Precision Neurorehabilitation  
Department of Veterans Affairs Career Development Award 2, IK2 RX004237  
PI (\$1,388,948 – total direct costs)  
The goals of this project are to (1) Deconstruct post-stroke hemiparesis into its individual components (2) Map descending motor tract anatomy onto distinct components of post-stroke hemiparesis and (3) Map descending motor tract physiology onto distinct components of post-stroke hemiparesis.

### **Projects Submitted for Funding**

- Pending:        A comparison of telerehabilitation adherence-enhancing interventions amongst people with disabilities
- Submitted      PCORI  
05/2021        Co-I (PI Lynne Gauthier)  
The goal of this project is to identify the most effective approaches to promoting adherence to physical exercise/rehabilitation amongst people with disabilities.

### **Training Grants and Mentored Trainee Grants**

- 2020-2021     Advancing Stroke Research through Remote Assessment of Upper Extremity Impairment  
MGH Institute of Health Professions Faculty Research Fellowship Grant  
Mentor of Kimberly Erler  
The major goal of this project is to develop a telehealth assessment package of motor outcomes after stroke to facilitate the remote delivery of rehabilitation and to inform novel personalized intervention strategies.

2022-2023 Adequacy of Nutritional Intake During Intensive Care Hospitalization in Patients with Brain Injury and its Association with Acute and Post-Discharge Clinical Outcomes  
Department of Nutrition Services Member Research Grant  
Mentor of Kaman Lo  
The major goals of this project are to (1) characterize changes in nutritional status and clinical outcomes of patients with brain injury between baseline and ninety day follow-up and (2) assess for associations between nutritional intake adequacy during NSICU hospitalization in patients after acute brain injury and clinical outcomes.

### **Unfunded Current Projects**

2017- Stroke Motor Rehabilitation and Recovery Study (SMaHRT)  
Massachusetts General Hospital  
PI  
The goal of this IRB-approved study (MGH IRB 2017P000868) is to understand the neuroanatomic and neurophysiologic correlates of the natural history of upper extremity motor recovery after stroke.

### **Report of Local Teaching and Training**

#### **Teaching of Students in Courses:**

2015	Neuroanatomy 2 <sup>nd</sup> year medical students	Harvard Medical School 3-hr session / week for 4 weeks
2016	Neuroanatomy (HST 130) 2 <sup>nd</sup> year medical students	Harvard-MIT 2 x 3-hr sessions / week for 6 weeks
2020	Neurobiology of Disease (NBD 209), Stroke Session Graduate students	Harvard University 3-hr session
2020-	Neuroanatomy (HST 130) 2 <sup>nd</sup> year medical students	Harvard-MIT 2 x 3-hr sessions / week for 6 weeks

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

2017-	Neurorehabilitation and Stroke Recovery  Neurology Residents and Fellows	Partners (Massachusetts General Hospital / Brigham and Women's Hospital) Core Resident Education Conference  1 hour lecture / year
2019-	Stroke Recovery  Spaulding PM&R Residents	Spaulding Rehabilitation Hospital Core Resident Education Conference  1 hour lecture / year

2020-	Neurorecovery after the NeuroICU	MGH Neurocritical Care Didactice & Case Review Conference
	Neurology fellows and residents	1 hour lecture / year
2022-	Upper Extremity Motor Recovery after Stroke: Clinical Trial Update and Novel Approaches	MGH Stroke Service Conference
	Neurology fellows and residents	1 hour lecture / year

#### **Clinical Supervisory and Training Responsibilities:**

2020-	Attending Physician, MGH Neurocritical Care Unit	Massachusetts General Hospital
	Mass General Brigham Neurology Residents and Fellows	40 hours / month
2020-	Attending Physician, Acute Stroke Service	Massachusetts General Hospital
	Mass General Brigham Neurology Residents and Fellows	10 hours / month
2020-	Attending Physician, Neurotrauma Consultation Service	Massachusetts General Hospital
	Mass General Brigham Neurology Residents and Fellows	1 hour / month
2020-	Neurology Residency Clinic Clinic Preceptor	Massachusetts General Hospital
	Mass General Brigham Neurology Residents	10 hours / month
2020-	Neurorecovery Clinic Clinic Preceptor	Massachusetts General Hospital
	Mass General / Spaulding Neurorecovery Fellows	10 hours / month

#### **Research Supervisory and Training Responsibilities:**

2019-	Supervision of graduate student trainees 1-2 trainees per year	Massachusetts General Hospital 1.5 hour lab meeting per week, 1:1 supervision one hour per week per trainee
-------	-------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------



### **Formally Mentored Harvard Medical, Dental and Graduate Students:**

- 2018-2019 Galina Gheihman, HMS Class of 2019  
Conducted research with me during her final year of medical school. Hosted a national workshop and published a paper with me in Archives of Physical Medicine and Rehabilitation entitled, “Reimagining Stroke Rehabilitation and Recovery Across the Care Continuum”
- 2022-pres Sarah Cavanagh, Harvard Bioengineering PhD Student  
Currently conducting thesis research in my laboratory. Co-advised with Dr. Conor Walsh (Harvard John A. Paulson School of Engineering and Applied Sciences)

### **Other Mentored Trainees and Faculty:**

- 2017-2018 Shirin Toolee, BS, MS / Industry  
Career Stage: Masters student. Mentoring role: Brown University thesis co-advisor.  
Thesis title “Understanding how cognitive deficits influence motor recovery in patients with acute ischemic stroke”
- 2017-2020 Lauren Ostrowski, BS / MD PhD Student  
Career Stage: post-undergraduate research. Mentoring role: Research co-mentor.  
Accomplishments: multiple first-author presentations at national conferences based on mentored research- American Society of Neurorehabilitation 2019, Society for Neuroscience 2019
- 2020-2021 Sarah Cavanagh, BS / Health Science Specialist, Providence VA Medical Center  
Career Stage: Masters student. Mentoring role: Brown University thesis co-advisor
- 2019-pres Nicole Dusang, BS  
Career Stage: PhD student. Mentoring role: Brown University thesis co-advisor
- 2020-pres Rashida Nayeem, BS  
Career Stage: PhD student. Mentoring role: Northeastern University thesis co-advisor.  
Member of dissertation committee.
- 2020-2022 Julia Carlson, MD  
Career Stage: MGH Neurology Fellow. Mentoring role: Fellowship mentor.  
Accomplishments: submission of poster to Neurocritical Care Annual Conference
- 2022- Isha Vora, MS, SLP  
Career Stage: MGH Institute of Health Professions Rehabilitation Sciences PhD student.  
Mentoring role: PhD Co-Advisor, Member of thesis committee. Accomplishments:

Winner of Fletcher H. McDowell Award for Best Clinical Science at American Society of Neurorehabilitation

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

*No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

2019	Models for Monitoring Stroke Recovery Neurorehabilitation, Harvard CME Course	Lecture Waltham, MA
2019	Proportional Recovery of the Arm after Stroke Neurorehabilitation, Harvard CME Course	Lecture Waltham, MA
2021	Models for Monitoring Stroke Recovery, Part 1 Neurorehabilitation, Harvard CME Course	Lecture Waltham, MA
2021	Models for Monitoring Stroke Recovery, Part 2 Neurorehabilitation, Harvard CME Course	Lecture Waltham, MA
2022	Stroke Recovery, The Cutting Edge Neurorehabilitation, Harvard CME Course	Lecture Waltham, MA

**Local Invited Presentations:**

*No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

2017	A Proposal to Define the Trajectory of Motor Recovery after Ischemic Stroke / Weekly Conference Stroke Service, Massachusetts General Hospital
2017	Stroke Motor Rehabilitation and Recovery Study / In-Service Lecture Physical and Occupational Therapy Departments, Massachusetts General Hospital
2017	Towards Brain-Computer Interfaces for Stroke Rehabilitation / Lecture Series Spaulding Stroke Research and Recovery Institute, Spaulding Rehabilitation Hospital
2018	Stroke Recovery: A Comprehensive View Across the Post-Acute Care Continuum / Speaker Series Center of Neurotechnology and Neurorecovery, Massachusetts General Hospital
2018	Stroke Recovery: A Comprehensive Perspective / Speaker Series

White Matter Hyperintensity-Imaging Ischemic Stroke Research Group, Massachusetts General Hospital

- 2018      Stroke Recovery / Seminar  
Seminar in Recovery and Restoration of CNS Health and Function, Massachusetts General Hospital & Brown University
- 2018      Stroke Recovery, Clinical Translation / Speaker Series  
Technology for Equitable and Accessible Medicine (TEAM), Harvard School of Engineering and Applied Sciences
- 2018      SMaHRT, Preliminary Results and Insights / Speaker Series  
Neurostatistics Working Group, Harvard T.H. Chan School of Public Health
- 2018      Stroke Motor Rehabilitation and Recovery Study, An Update / In-Service Lecture  
Occupational and Physical Therapy Departments, Massachusetts General Hospital
- 2018      Stroke Recovery: A Patient Centered Approach / Grand Rounds  
Department of Neurology, Massachusetts General Hospital
- 2018      Stroke Recovery: A Quantitative Approach / Grand Rounds  
MGH Behavioral Neurology and Neuropsychiatry Division
- 2018      The SMaHRT Study (Perspectives on Year One) / Speaker Series  
Spaulding Stroke Institute, Spaulding Rehabilitation Hospital
- 2019      Deciphering Spontaneous Recovery After Stroke / Research Seminar  
MGH Institute of Health Professions
- 2019      Stroke Recovery: A Quantitative Clinical-Scientific Model / Grand Rounds  
Brigham and Women's Hospital Rehabilitation Services & Therapy
- 2019      Corticospinal Tract Injury Estimated from Acute Stroke Imaging Predicts Upper Extremity Motor Recovery After Stroke  
Spaulding-Labuschagne Neuromodulation Center
- 2020      Tracking Development in Spasticity Following a New Stroke  
MGH-Spaulding-Harvard Paralysis Center
- 2020      Stroke Recovery: From Health Systems to Meaningful Outcomes and Biomarkers for Neurotechnological Treatments  
Center for Neurorestoration and Neurotechnology Virtual Seminar

Providence Veterans Affairs Medical Center  
Providence, RI

- 2021      Stroke Neurorehabilitation: The Cutting Edge  
Updates in Internal Medicine  
Providence Veterans Affairs Medical Center Accreditation Outreach Network  
Providence, RI
- 2021      Stroke Recovery: Cutting Edge Treatments  
MGH Interprofessional Educational Series
- 2021      Neurorecovery and COVID-19  
CHANT Summer Series, MGH Division of Infectious Disease
- 2022      Arm and Hand Motor Recovery after Stroke  
Summer Learning Series, MGH Summer Learning Series
- 2022      Nutrition Support from Neurosciences ICU to Neurorecovery – Establishing a Framework  
Longwood Nutrition Conference, Harvard Medical School

### **Report of Regional, National and International Invited Teaching and Presentations**

*Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.*

#### **Regional**

- 2017      Understanding Stroke Motor Recovery / Invited Presentation  
Opening Ceremony of the Center for Neurotechnology, University of Albany  
Albany, NY
- 2018      Stroke Recovery: Towards Stratified Neurorehabilitation / Grand Rounds  
Braintree Rehabilitation Hospital  
Braintree, MA
- 2018      Recovery after Stroke: Bridging the Clinical-Translational Gap / Invited Presentation  
ACTION Lab, Northeastern University  
Boston, MA
- 2018      Stroke Motor Recovery: Insights from Neural Structure and Function to Inform Health  
Systems / Invited Speaker  
Boston ACTION Club, Northeastern University

Boston, MA

- 2018      A Solution for Stroke Recovery / Podium Presentation  
Northeast Cerebrovascular Consortium 13<sup>th</sup> Annual Summit  
Newport, RI
- 2019      Stroke Recovery Design Innovation Workshop  
Northeast Cerebrovascular Consortium 14<sup>th</sup> Annual Summit  
Boston, MA (NECC, American Stroke Association)
- 2019      Defining Stroke Recovery Across the Care Continuum  
Northeast Cerebrovascular Consortium 14<sup>th</sup> Annual Summit, Stroke Tank Presentation  
Boston, MA
- 2020      Stroke Recovery Biomarkers and Cutting Edge Treatments  
Encompass Health, 41<sup>st</sup> Annual Neurorehabilitation Conference  
Braintree, MA
- 2021      Stroke Neurorecovery: How Natural History Can Inform Novel Treatments  
University of Massachusetts Neurology Grand Rounds  
Worcester, MA
- 2021      A Neurological Approach to Stroke Recovery  
Brown University Neurology Grand Rounds  
Providence, RI
- 2022      Stroke Neurology: From Mechanisms of Prevention to Models of Recovery  
Brown Neuroscience Bench-Bedside Seminar Series  
Providence, RI
- 2022      Stroke Outcomes and Predictors: where acute stroke meets stroke rehabilitation  
Paul Coverdell National Acute Stroke Program Learning Session Series  
Boston, MA
- 2022      The Clinical Neuroscience of Neurotechnology for Neurorehabilitation  
Tufts University NeuroNetwork Keynote Presentation  
Medford, MA

- 2022 Predictors of Recovery after Stroke  
Encompass Health, 43rd Annual Neurorehabilitation Conference  
Braintree, MA
- 2022 Rationale and Design of an Interdisciplinary Neurorecovery Clinic  
Encompass Health, 43rd Annual Neurorehabilitation Conference  
Braintree, MA
- 2022 Systems Neuroscience for Stroke Recovery: New Outcomes and Novel Treatments  
ACTION Lab, Northeastern University  
Boston, MA

## **National**

- 2017 Leveraging Apple Technology to Define and Improve Recovery for Stroke Patients /  
Invited Presentation  
Apple Inc.  
Cupertino, CA (Apple)
- 2018 Clinical Perspectives on Neurotechnology for Stroke Rehabilitation / Invited Presentation  
International Brain-Computer Interface Meeting  
Monterey, CA
- 2019 Stroke Recovery: Development of a Learning Healthcare System / Invited Presentation  
University of Southern California Neurorehabilitation Seminar  
Los Angeles, CA
- 2020 Corticospinal Tract Injury Estimated From Acute Stroke Imaging Predicts Upper  
Extremity Motor Recovery After Stroke (Oral Abstract)  
International Stroke Conference  
Los Angeles, CA
- 2020 Stroke Recovery: Biomarkers and Outcomes of Motor Recovery after Stroke / Invited  
Presentation  
H. Ben Taub Department of Physical Medicine & Rehabilitation Grand Rounds  
Baylor College of Medicine  
Houston, TX
- 2020 Clinically Relevant Biomarkers and Outcomes for Motor Recovery after Stroke  
The Department of Physical Medicine and Rehabilitation Grand Rounds  
Johns Hopkins University

Baltimore, MD

- 2021 From Neurocritical Illness to Neurorecovery  
Columbia University Neurocritical Care Teaching Conference  
New York, New York
- 2022 A Neurologist's Perspectives on Stroke Recovery and Rehabilitation  
Center for Biomedical Research Excellence (COBRE) in Stroke Recovery, Medical  
University South Carolina  
Charleston, South Carolina
- 2022 Stroke Recovery and Rehabilitation: Let's Get Really Specific  
Neurology Grand Rounds, University of Michigan  
Ann Arbor, MI

### **International**

- 2021 BCI-Neurotechnology for Stroke Recovery: Clinical Relevance  
International BCI & Neurotechnology Spring School (BCIs for Stroke Rehabilitation)  
Schiedlberg, Austria
- 2022 Clinical Relevance of BCI for Stroke  
International BCI & Neurotechnology Spring School (BCIs for Stroke Rehabilitation)  
Schiedlberg, Austria

### **Report of Clinical Activities and Innovations**

#### **Current Licensure and Certification:**

- 2016 Massachusetts Medical License
- 2017 Board Certification, Neurology, American Board of Psychiatry and Neurology
- 2018 Subspecialty Certification, Brain Injury Medicine, American Board of Psychiatry and Neurology
- 2022 Subspecialty Certification, Neurocritical Care, American Board of Psychiatry and Neurology

#### **Practice Activities:**

- |       |                    |                                          |                 |
|-------|--------------------|------------------------------------------|-----------------|
| 2020- | Neurocritical Care | MGH Neurosciences Intensive<br>Care Unit | 10 weeks / year |
|-------|--------------------|------------------------------------------|-----------------|

2020-	Neurorecovery Clinic	Neurorecovery Clinic, MGH	Two half day sessions / month
2020-	Acute Stroke Service	Stroke Service, MGH	10 hours / month
2020-	Neurology Clinic	Providence VA Medical Center	4 hours / month

### **Clinical Innovations:**

Stroke Motor Recovery Outpatient Program at Massachusetts General Hospital (2019-pres)	I developed an outpatient program for stroke survivors within the Neurorecovery Clinic at Massachusetts General Hospital, in which clinical visits are focused on neurorehabilitation and integrated with outcomes data collection.
Covid-19 Neurorecovery Follow-up Program (2020 – pres)	During the first wave of the Covid-19 pandemic, I developed a follow-up program for patients with COVID with critical illness and neurologic complications. This outpatient program now receives wide ranging referrals from across the hospital and region.
Neurorecovery Interdisciplinary Outpatient Program (2020 – pres)	I developed an interdisciplinary outpatient program for survivors of acute neurologic illness to be seen simultaneously and via telehealth by providers from neurology, physical, occupational, speech therapy, pharmacy, physiatry, and clinical psychology. This interdisciplinary clinic now occurs once per month and receives wide ranging local and regional referrals.

### **Educational Material for Patients and the Lay Community:**

#### ***Patient educational material***

2019	Understanding Stroke: A Guide to Your Care in the Hospital and Beyond	Co-Author	Patient Education Material, Massachusetts General Hospital
------	-----------------------------------------------------------------------	-----------	------------------------------------------------------------

### **Report of Scholarship**

**ORCID ID: 0000-0002-6575-9849**

### **Peer-Reviewed Scholarship in print or other media:**

#### **Research Investigations**

1. **Lin D**, Stahl DC, Ikle D, Grannis FW, Jr. Employee attitudes and smoking behavior at the City of Hope National Medical Center smoke-free campus. J Natl Compr Canc Netw. 2006;4(6):535-42. Epub 2006/07/04. PubMed PMID: 16813723.
2. **Lin D**, Najbauer J, Salvaterra PM, Mamelak AN, Barish ME, Garcia E, Metz MZ, Kendall SE, Bowers M, Kateb B, Kim SU, Johnson M, Aboody KS. Novel method for visualizing and modeling



- the spatial distribution of neural stem cells within intracranial glioma. *Neuroimage*. 2007;37 Suppl 1:S18-26. Epub 2007/06/15. doi: 10.1016/j.neuroimage.2007.03.076. PubMed PMID: 17560798.
3. Klin A, **Lin DJ**, Gorrindo P, Ramsay G, Jones W. Two-year-olds with autism orient to non-social contingencies rather than biological motion. *Nature*. 2009;459(7244):257-61. Epub 2009/03/31. doi: 10.1038/nature07868. PubMed PMID: 19329996; PMCID: PMC2758571.
  4. Vander Wyk BC, Ramsay GJ, Hudac CM, Jones W, **Lin D**, Klin A, Lee SM, Pelphrey KA. Cortical integration of audio-visual speech and non-speech stimuli. *Brain Cogn*. 2010;74(2):97-106. Epub 2010/08/17. doi: 10.1016/j.bandc.2010.07.002. PubMed PMID: 20709442; PMCID: PMC3869029.
  5. **Lin DJ**, Kang E, Chen C. Changes in input strength and number are driven by distinct mechanisms at the retinogeniculate synapse. *J Neurophysiol*. 2014;112(4):942-50. Epub 2014/05/23. doi: 10.1152/jn.00175.2014. PubMed PMID: 24848465; PMCID: PMC4122736.
  6. **Lin DJ**, Hermann KL, Schmähmann JD. The Diagnosis and Natural History of Multiple System Atrophy, Cerebellar Type. *Cerebellum*. 2016;15(6):663-79. Epub 2015/10/16. doi: 10.1007/s12311-015-0728-y. PubMed PMID: 26467153; PMCID: PMC4833693.
  7. Bonin Pinto C, Morales-Quezada L, de Toledo Piza PV, Zeng D, Saleh Velez FG, Ferreira IS, Lucena PH, Duarte D, Lopes F, El-Hagrassy MM, Rizzo LV, Camargo EC, **Lin DJ**, Mazwi N, Wang QM, Black-Schaffer R, Fregni F. Combining Fluoxetine and rTMS in Poststroke Motor Recovery: A Placebo-Controlled Double-Blind Randomized Phase 2 Clinical Trial. *Neurorehabil Neural Repair*. 2019;33(8):643-55. Epub 2019/07/10. doi: 10.1177/1545968319860483. PubMed PMID: 31286828; PMCID: PMC6688938.
  8. **Lin DJ**, Cloutier AM, Erler KS, Cassidy JM, Snider SB, Ranford J, Parlman K, Giatsidis F, Burke JF, Schwamm LH, Finklestein SP, Hochberg LR, Cramer SC. Corticospinal Tract Injury Estimated From Acute Stroke Imaging Predicts Upper Extremity Motor Recovery After Stroke. *Stroke*. 2019;STROKEAHA119025898. Epub 2019/10/28. doi: 10.1161/STROKEAHA.119.025898. PubMed PMID: 31648631.
  9. Ciarán O'Neill, Tommaso Proietti, Kristin Nuckols, Megan E. Clarke, Cameron J. Hohimer, Alison Cloutier, **David J. Lin**, Conor J. Walsh. Inflatable Soft Wearable Robot for Reducing Therapist Fatigue During Upper Extremity Rehabilitation in Severe Stroke. *IEEE Robotics and Automation Letters*. 2020; 5(3):3899 - 3906.
  10. Nuckols K, Hohimer CJ, Glover C, Lucena DSd, Moyo W, Wagner D, Cloutier A, **Lin DJ**, Walsh CJ, editors. Effects of a Soft Robotic Glove using a High Repetition Protocol in Chronic Stroke: A Pilot Study. 2020 8th IEEE RAS/EMBS International Conference for Biomedical Robotics and Biomechatronics (BioRob); 2020 29 Nov.-1 Dec. 2020.
  11. Tommaso Proietti, Ciarán O'Neill, Cameron Hohlmer, Kristin Nuckols, Megan Clarke, Yu Meng Zhou, **David Lin**, Conor James Walsh. Sensing and Control of a Multi-Joint Soft Wearable Robot for Upper-Limb Assistance and Rehabilitation. *IEEE Robotics and Automation Letters*. 2021; 6(2): 2381-2388.
  12. Kline DK, **Lin DJ**, Cloutier A, Sloane K, Parlman K, Ranford J, Picard-Fraser M, Fox AB, Hochberg LR, Kimberley TJ. Arm Motor Recovery After Ischemic Stroke: A Focus on Clinically Distinct Trajectory Groups. *J Neurol Phys Ther*. 2021;45(2):70-8. Epub 2021/03/13. doi: 10.1097/NPT.0000000000000350. PubMed PMID: 33707402.
  13. **Lin DJ**, Erler KS, Snider SB, Bonkhoff AK, DiCarlo JA, Lam N, Ranford J, Parlman K, Cohen A, Freeburn J, Finklestein SP, Schwamm LH, Hochberg LR, Cramer SC. Cognitive Demands Influence Upper Extremity Motor Performance During Recovery From Acute Stroke. *Neurology*. 2021. Epub 2021/04/17. doi: 10.1212/WNL.00000000000011992. PubMed PMID: 33858997.
  14. Liew SL, Zavaliangos-Petropulu A, Schweighofer N, Jahanshad N, Lang CE, Lohse KR, Banaj N, Barisano G, Baugh LA, Bhattacharya AK, Bigjahan B, Borich MR, Boyd LA, Brodtmann A, Bueteifisch CM, Byblow WD, Cassidy JM, Charalambous CC, Ciullo V, Conforto AB, Craddock RC, Dula AN, Egorova N, Feng W, Fercho KA, Gregory CM, Hanlon CA, Hayward KS, Holguin JA, Hordacre B, Hwang DH, Kautz SA, Khelif MS, Kim B, Kim H, Kuceyeski A, Lo B, Liu J, **Lin D**, Lotze M, MacIntosh BJ, Margetis JL, Mohamed FB, Nordvik JE, Petoe MA, Piras F, Raju S, Ramos-

- Murguialday A, Revill KP, Roberts P, Robertson AD, Schambra HM, Seo NJ, Shiroishi MS, Soekadar SR, Spalletta G, Stinear CM, Suri A, Tang WK, Thielman GT, Thijs VN, Vecchio D, Ward NS, Westlye LT, Winstein CJ, Wittenberg GF, Wong KA, Yu C, Wolf SL, Cramer SC, Thompson PM, Group ESRW. Smaller spared subcortical nuclei are associated with worse post-stroke sensorimotor outcomes in 28 cohorts worldwide. *Brain Commun.* 2021;3(4):fcab254. Epub 2021/11/23. doi: 10.1093/braincomms/fcab254. PubMed PMID: 34805997; PMCID: PMC8598999.
15. Bonkhoff AK, Hope T, Bzdok D, Guggisberg AG, Hawe RL, Dukelow SP, Chollet F, **Lin DJ**, Grefkes C, Bowman H. Recovery after stroke: the severely impaired are a distinct group. *J Neurol Neurosurg Psychiatry.* 2021. Epub 2021/12/24. doi: 10.1136/jnnp-2021-327211. PubMed PMID: 34937750.
  16. Kuo YL, **Lin DJ**, Vora I, DiCarlo JA, Edwards DJ, Kimberley TJ. Transcranial magnetic stimulation to assess motor neurophysiology after acute stroke in the United States: Feasibility, lessons learned, and values for future research. *Brain Stimul.* 2022;15(1):179-81. Epub 2021/12/11. doi: 10.1016/j.brs.2021.12.001. PubMed PMID: 34890840.
  17. Erler KS, Wu R, DiCarlo JA, Petrilli MF, Gochyyev P, Hochberg LR, Kautz SA, Schwamm LH, Cramer SC, Finklestein SP, **Lin DJ**. Association of Modified Rankin Scale With Recovery Phenotypes in Patients With Upper Extremity Weakness After Stroke. *Neurology.* 2022. Epub 2022/03/13. doi: 10.1212/WNL.0000000000200154. PubMed PMID: 35277444.
  18. Zavaliangos-Petropulu A, Lo B, Donnelly MR, Schweighofer N, Lohse K, Jahanshad N, Barisano G, Banaj N, Borich MR, Boyd LA, Buetefisch CM, Byblow WD, Cassidy JM, Charalambous CC, Conforto AB, DiCarlo JA, Dula AN, Egorova-Brumley N, Etherton MR, Feng W, Fercho KA, Geranmayeh F, Hanlon CA, Hayward KS, Hordacre B, Kautz SA, Khlif MS, Kim H, Kuceyeski A, **Lin DJ**, Liu J, Lotze M, MacIntosh BJ, Margetis JL, Mohamed FB, Piras F, Ramos-Murguialday A, Revill KP, Roberts PS, Robertson AD, Schambra HM, Seo NJ, Shiroishi MS, Stinear CM, Soekadar SR, Spalletta G, Taga M, Tang WK, Thielman GT, Vecchio D, Ward NS, Westlye LT, Werden E, Winstein C, Wittenberg GF, Wolf SL, Wong KA, Yu C, Brodtmann A, Cramer SC, Thompson PM, Liew SL. Chronic Stroke Sensorimotor Impairment Is Related to Smaller Hippocampal Volumes: An ENIGMA Analysis. *J Am Heart Assoc.* 2022;11(10):e025109. Epub 2022/05/17. doi: 10.1161/JAHA.121.025109. PubMed PMID: 35574963.
  19. Nayeem R, Sohn WJ, DiCarlo JA, Gochyyev P, **Lin DJ**, Sternad D. Novel Platform for Quantitative Assessment of Functional Object Interactions After Stroke. *IEEE Trans Neural Syst Rehabil Eng.* 2022;PP. Epub 2022/12/01. doi: 10.1109/TNSRE.2022.3226067. PubMed PMID: 36455078.
  20. Barra ME, Giulietti JM, DiCarlo JA, Erler KS, Krenz J, Roberts RJ, **Lin DJ**. Medication Profiles at Hospital Discharge Predict Poor Outcomes After Acute Ischemic Stroke. *J Pharm Pract.* 2023;8971900221150282. Epub 2023/01/05. doi: 10.1177/08971900221150282. PubMed PMID: 36604314.
  21. Lin Z, Meng Z, Wang T, Guo R, Zhao Y, Li Y, Bo B, Guan Y, Liu J, Zhou H, Yu X, **Lin DJ**, Liang ZP, Nachev P, Li Y. Predicting the Onset of Ischemic Stroke With Fast High-Resolution 3D MR Spectroscopic Imaging. *J Magn Reson Imaging.* 2023. Epub 2023/01/10. doi: 10.1002/jmri.28596. PubMed PMID: 36625533.

### Other peer-reviewed scholarship

1. **Lin DJ**, Lam FC, Siracuse JJ, Thomas A, Kasper EM. "Time is brain" the Gifford factor - or: Why do some civilian gunshot wounds to the head do unexpectedly well? A case series with outcomes analysis and a management guide. *Surg Neurol Int.* 2012;3:98. Epub 2012/10/13. doi: 10.4103/2152-7806.100187. PubMed PMID: 23061014; PMCID: PMC3463834.
2. **Lin DJ**, Sacks A, Shen J, Lee TC. Neurocandidiasis: a case report and consideration of the causes of restricted diffusion. *J Radiol Case Rep.* 2013;7(5):1-5. Epub 2013/05/25. doi: 10.3941/jrcr.v7i5.1319. PubMed PMID: 23705051; PMCID: PMC3661417.

3. **Lin DJ**, Hermann KL, Schmähmann JD. Multiple system atrophy of the cerebellar type: clinical state of the art. *Mov Disord*. 2014;29(3):294-304. Epub 2014/03/13. doi: 10.1002/mds.25847. PubMed PMID: 24615754.
4. Moussawi K, **Lin DJ**, Matiello M, Chew S, Morganstern D, Vaitkevicius H. Brainstem and limbic encephalitis with paraneoplastic neuromyelitis optica. *J Clin Neurosci*. 2016;23:159-61. Epub 2015/09/29. doi: 10.1016/j.jocn.2015.08.006. PubMed PMID: 26412254.
5. **Lin DJ**, Levin SN, Albin CSW, Goodheart AE, Venna N. Clinical Reasoning: A 23-year-old woman with fever and vertical diplopia. *Neurology*. 2018;90(22):e2006-e10. Epub 2018/05/29. doi: 10.1212/WNL.0000000000005600. PubMed PMID: 29807925.
6. **Lin DJ**, Cudkovic ME, Cho TA. Opinion and Special Articles: Challenges and opportunities in defining career identity in academic neurology. *Neurology*. 2018;91(14):670-2. Epub 2018/10/03. doi: 10.1212/WNL.0000000000006284. PubMed PMID: 30275123.
7. Ranford J, Asiello J, Cloutier A, Cortina K, Thorne H, Erler KS, Frazier N, Sadlak C, Rude A, **Lin DJ**. Interdisciplinary Stroke Recovery Research: The Perspective of Occupational Therapists in Acute Care. *Front Neurol*. 2019;10:1327. Epub 2020/01/11. doi: 10.3389/fneur.2019.01327. PubMed PMID: 31920947; PMCID: PMC6928199.
8. Schowalter S, Katz DI, **Lin DJ**. Clinical Reasoning: A 33-year-old with left sided hemiparesis and anarthria. *Neurology*. 2020 Sep 10. PMID: 32913028.
9. DiCarlo JA, Gheihman G, **Lin DJ**. Northeast Cerebrovascular Consortium Conference Stroke Recovery Workshop P. Reimagining Stroke Rehabilitation and Recovery Across the Care Continuum: Results from a Design-Thinking Workshop to Identify Challenges and Propose Solutions. *Arch Phys Med Rehabil*. 2021. Epub 2021/02/09. doi: 10.1016/j.apmr.2021.01.074. PubMed PMID: 33556351.

#### **Non-peer reviewed scholarship in print or other media:**

#### **Reviews, chapters, monographs and editorials:**

1. Greenberg SM, **Lin DJ**, and Mir S. Cerebral Hemorrhage. In: *Neurology Evidence: The Practice Changing Studies*. Batra A, Brizzi K, Salinas J, Wang N editors. Wolters Kluwer; 2017.
2. Vaitkevicius H, **Lin DJ**. Neurologic Intensive Care. In: *Neurology Evidence: The Practice Changing Studies*. Batra A, Brizzi K, Salinas J, Wang N editors. Wolters Kluwer; 2017.
3. **Lin DJ**, Finklestein SP, Cramer SC. New Directions in Treatments Targeting Stroke Recovery. *Stroke*. 2018;49(12):3107-14. doi: 10.1161/STROKEAHA.118.021359. PubMed PMID: 30571435; PMCID: PMC6309806.
4. Regenhardt RW, Takase H, Lo EH, **Lin DJ**. Translating concepts of neural repair after stroke: Structural and functional targets for recovery. *Restor Neurol Neurosci*. 2020. Epub 2020/01/14. doi: 10.3233/RNN-190978. PubMed PMID: 31929129.
5. Josman N, Connor LT, **Lin DJ**. Editorial: Performance and Participation Outcomes for Individuals With Neurological Conditions. *Front Neurol*. 2020; 11:878. PMID: 33041961.
6. **Lin DJ**, Cramer SC. Principles of Neural Repair and Their Application to Stroke Recovery Trials. *Semin Neurol*. 2021. Epub 2021/03/05. doi: 10.1055/s-0041-1725140. PubMed PMID: 33663003.
7. Young MJ, **Lin DJ**, Hochberg LR. Brain-Computer Interfaces in Neurorecovery and Neurorehabilitation. *Semin Neurol*. 2021;41(2):206-16. Epub 2021/03/21. doi: 10.1055/s-0041-1725137. PubMed PMID: 33742433.
8. Liew S-L, **Lin DJ**, Cramer SC. Interventions to Improve Recovery after Stroke. In: Sacco RL, Wong KS, MD FRCP, Lawrence KS, Grotta JC, Albers GW, Broderick JP, Kasner SE, editors. *Stroke: Pathophysiology, Diagnosis, and Management (7th edition)*. (*in press*)
9. Ganguly K, Khanna P, Morecraft RJ, **Lin DJ**. Modulation of neural co-firing to enhance network transmission and improve motor function after stroke. *Neuron*. 2022;110(15):2363-85. Epub 2022/08/05. doi: 10.1016/j.neuron.2022.06.024. PubMed PMID: 35926452; PMCID: PMC9366919.

### **Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings (selected):**

- D.J. Lin**, A.M. Cloutier, K. Parlman, J. Ranford, S. Fasoli, J. Clark, K. MacDonald, F. Giatsidis, N. Mazwi, S. Finklestein, L.R. Hochberg. Quantifying Stroke Recovery Trajectories Across the Post-Acute Care Continuum: A Pilot Feasibility Study. American Congress of Rehabilitation Medicine, 2018 (*Physicians and Clinicians Networking Group Poster Award*)
- D.J. Lin**, A.M. Cloutier, S. Snider, F. Giatsidis, J. Ranford, K. Parlman, S. Fasoli, T. Kimberley, S. Cramer, S. Finklestein, L.R. Hochberg. “Clinical and Neuroimaging Biomarkers Acquired During the Acute Stroke Admission to Predict Upper Extremity Motor Recovery After Stroke”. Massachusetts General Hospital Clinical Research Day, October 2018 (*Department of Neurology Best Clinical Research Abstract*)
- D.J. Lin**, A.M. Cloutier, S. Snider, F. Giatsidis, J. Ranford, K. Parlman, S. Fasoli, N. Mazwi, S. Finklestein, L.R. Hochberg. Clinical Translation of Early Clinical and Neuroimaging Biomarkers to Predict Stroke Motor Recovery. American Neurological Association Annual Meeting, 2018 (*American Neurological Association Travel Award*)
- D.J. Lin**, C. Feng, L.E. Skolarus, J.F. Burke. Clinical Characteristics and Therapy Time of Stroke Patients admitted to Inpatient Rehabilitation Facility versus Skilled Nursing Facility. International Stroke Conference 2019
- R.W. Regenhardt, **D.J. Lin**, S. Snider, A. Cloutier, F. Giatsidis, J.A. Ranford, K. Parlman, J. Clark, K.S. MacDonald, S.P. Finklestein, J. Rosand, L.R. Hochberg. Characterization and Impact of Early Changes in Stroke Severity. Massachusetts Neurological Association Annual Meeting, 2019. (selected oral abstract presented by co-author, Regenhardt) (*First Place Poster Award, Massachusetts Neurological Association*)
- K. Erler, A. Cloutier, K. Sloane, J. Locascio, J. Ranford, K. Parlman, N. Lam, S. Fasoli, T. Kimberley, S. Finklestein, L. Schwamm, L. Hochberg, **D.J. Lin**. Functional Consequences of Upper Extremity Motor Recovery in the first 90 days after Stroke. American Society of Neurorehabilitation, 2019. (*Fletcher H. McDowell Award Finalist*)
- L.M. Ostrowski, A.N. Dusing, A.M. Cloutier, F. Giatsidis, S.S. Cash, L.R. Hochberg, **D.J. Lin**. Defining Robust EEG natural-state biomarkers of upper extremity impairment and recovery. Society of Neuroscience Annual Meeting, 2019.
- K. Sloane, **D.J. Lin**, A. Duffy, J. DiCarlo, A. Cloutier, A. Gupta, K. Gajos, L. Hochberg. Web Based Testing of Upper Extremity Movement for Patients Recovery after Stroke. International Stroke Conference Annual Meeting, 2020. [selected oral abstract presented by co-author, Sloane]
- J. Carlson, K. Emerson, G. Gheihman, M. Young, M. Barra, J. Ranford, J. Maggio, A. Cohen, J. Freeburn, E. Lester, C. Maheras, E. Lewis, N. Mazwi, E. Rosenthal, D. Rubin, B. Edlow, H. Alabsi, L. Hochberg, W.T. Kimberly, **D.J. Lin**. The Neurorecovery Clinic: Design, Implementation, and Early Evaluation of a Novel Interdisciplinary Post-Neurointensive Care Unit Clinic. Massachusetts General Hospital, Clinical Research Day, 2021. (*Clinical Research Day Departmental Award*)
- I. Vora, **D.J. Lin**, Y.K. Kuo, R.E. Banks, J.A. DiCarlo, L.R. Hochberg, T.J. Kimberley. The Use of Transcranial Magnetic Stimulation for Upper Extremity Motor Assessment at the Bedside During Acute Stroke Hospitalization: A Feasibility Study. American Society of Neurorehabilitation, 2022. (*Fletcher H. McDowell Award for Best Clinical Science*)
- J.A. DiCarlo, K. Erler, A. Jaywant, P. Gochyev, J. Ranford, S.C. Cramer, **D.J. Lin**. Neural Correlates of Performance-Based and Patient-Reported Outcome Measures after Stroke. International Stroke Conference, 2022. [selected oral abstract presented by co-author, DiCarlo] (*American Stroke Association Stroke Rehabilitation Award*)
- K. Andrew, M. Costello, E. Gillan, E. Greenler, K. Parlman, P. Plummer, J. Strom, J. DiCarlo, **D. Lin**. Functional Ambulation Category in Acute Stroke Predicts Disability at 3 Months. Academy of Neurologic Physical Therapy, 2022. (*Best Poster – Stroke Related*)