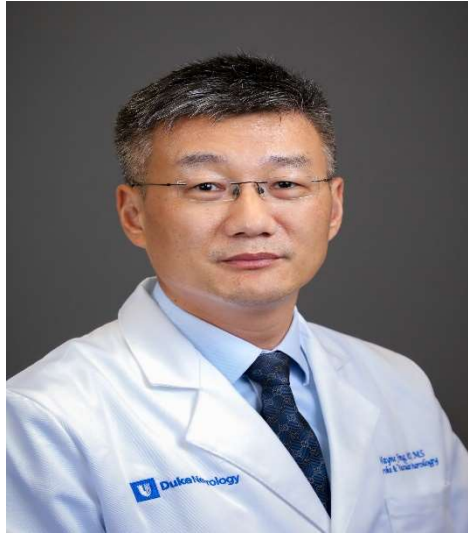


Curriculum Vitae



Wuwei (Wayne) Feng MD MS
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Education:

- 2002 Master of Science Biostatistics Univ. of Alabama Birmingham
- 1996 Doctor of Medicine Medicine Xiangya School of Medicine
(Certified by US ECFMG (No: 0-657-397-6) on 01/2004)

Professional Experience:

- 01/21 Adjunct Professor, Mechanical & Aerospace Engineering, NC State University
- 01/21 Adjunct professor, Biomedical Engineering, Duke University
- 07/19 - Chief, Stroke and Vascular Neurology Division, Duke University Medical Center
- 07/19 - Medical Director, Duke Comprehensive Stroke Center, Duke University Medical Center
- 10/19- Professor(Tenured), Department of Neurology, Duke University Medical Center
- 07/19- Adjunct Professor, College of Health Professions, Medical University of South Carolina
- 01/19 -06/19 Professor (Tenured), Department of Neurology, Medical University of South Carolina
- 07/15- 06/19 Director, ACGME Vascular Neurology Fellowship Program
- 07/11 –06/19 Neurology Consultant, South Carolina-MUSC REACH Tele-Stroke Network
- 07/13- 06/19 Director, International Stroke Fellowship Program
- 01/16- 07/18 Associate Professor (Tenure Track), Department of Neurology, College of Medicine, Medical University of South Carolina

- 07/11 – 07/15 Assistant Professor (Tenure Track), Department of Neurology & Neurosurgery, College of Medicine, Medical University of South Carolina
- 07/10 – 06/11 Vascular Neurology Fellow, Beth Israel Deaconess Medical Center, Harvard Medical School
(Mentors: Drs. Louis Caplan & Gottfried Schlaug)
- 07/09 – 06/10 Chief Resident, Department of Neuroscience, Medical University of South Carolina
- 07/06 – 06/10 Neurology Resident, Department of Neuroscience, Medical University of South Carolina,
(Mentor: Dr. Robert Adams)
- 07/06 – 06/07 Internship, Department of Medicine, Medical University of South Carolina
- 05/05 – 06/06 Senior Biostatistician, US Medical Division, Eli Lilly & Company
- 06/02- 04/05 Biostatistician, US Medical Division, Eli Lilly & Company
- 07/99 - 07/00 Neuroscience Research Fellow, Constraint-Induced Movement Therapy Research Group, University of Alabama at Birmingham (Mentor: Dr. Edward Taub)
- 07/96-06/99 Research Assistant, Department of Biomedical Engineering, Zhejiang University

Area of Expertise:

- **Vascular Neurology:** Telemedicine in Acute Stroke Care; Stroke Rehabilitation and Recovery; Post-Stroke Spasticity Management.
- **Biostatistics and Epidemiology:** Longitudinal Data Analysis; Propensity Score Based Matching Algorithm; Stroke Epidemiology and Outcome Research.
- **Neuroimaging and Brain Stimulation:** Diffusion Tensor Imaging (DTI)/Diffusion Kurtosis Imaging (DKI), Transcranial Magnetic Stimulation, Transcranial Direct Current Stimulation.

Certification:

- American Board of Neurology and Psychiatry – Certificate No: 56619 (Certified on 09/23/2010)
- American Board of Vascular Neurology – Certificate No. 1012 (Certified on 08/15/2011)

Medical License:

- Medical license in South Carolina: 28729 (Active)
- Medical license in North Carolina: 2013-02041 (Active)
- Medical License in Virginia: 0101267730 (Active)
- Medical license in Massachusetts: 32789 (Inactive)

Professional Memberships:

- Fellow, American Neurological Association (Member ID: 61867)
- Fellow, American Heart Association (Member ID: 153766744)
- Member, American Statistical Association (Member ID: 118648)
- Member, American Academy of Neurology (Member ID: 154026)

- Member, American Society of Neurorehabilitation (Member ID: 54227)
- Member, Society for Clinical Trial (Member ID: 345672)
- Member, World Federation of Neurorehabilitation (Member ID: 26453)
- Member, American Congress of Rehabilitation Medicine (Member ID: 48900)

Professional Committee:

- American Heart Association/American Stroke Association
 - Rehabilitation and Recovery Committee Member, Stroke Council
 - International Stroke Conference Committee Member
 - International Stroke Conference Abstract Reviewer
 - American Stroke Association Advisory Committee
 - Career Development Award Review Committee
- World Federation Neurorehabilitation (WFNR)
 - “At Large” member for the presidium (2018 – Present)
 - Chair of Sig in “Brain Modulation for Neurorehabilitation” (2019- Present)
 - North American Regional Vice President
- American Academy of Neurology
 - Chair, Neural Repair and Rehabilitation Section (2020-present)
 - Media Expert for of Neural Repair and Rehabilitation (2019-present)
 - Chair of Neurorehabilitation, AAN Annual Conference
- American Society of Neurorehabilitation (ASNR)
 - Membership Committee
- Society of Chinese American Entrepreneur Association
 - Co-founder and executive Board Committee Member

Scholarly Activity:

- Co-Chair. The Sixth Xiangya International Symposium in Cerebrovascular Disease, December 3-5, 2017, Changsha, China
- Co-Chair, The First International Workshop on Clinical Research and Manuscript Writing. October 8-10, 2017.
- Co-Chair, The Second International Workshop on Clinical Research and Manuscript Writing. July 13-15, 2018.
- Co-Chair, Neuro-rehabilitation. American Academy of Neurology Annual Conference 2018. April 25, 2018.
- Co-Chair, The Third International Workshop on Clinical Research and Manuscript Writing. September 9-15, 2019.
- Chair, Brain Stimulation session, European Congress of Neurorehabilitation, October, 2019

- Scientific program committee; World Congress of Neurorehabilitation 2020, Lyon, France.
- Topic Chair for Neurorehabilitation, American Academy of Neurology Annual Conference 2020, April, 2020
- Co-Chair, WFNR Symposium “The Impact of Covid19 on Neurorehabilitative Care and Research” , May, 2020.
- Co-Chair, WFNR Symposium “Neurological Sequela of Covid19 and Rehabilitation Strategies” , July, 2020.
- Co-Chair, WFNR Symposium “COVID-19: Challenges in the Americas, Africa & Asia Consequences for Neurorehabilitation” , July, 2020.

Ad-hoc Manuscript Reviewer:

- Neurology; Annals of Neurology; JAMA Neurology; Stroke; Circulation; New England Journal of Medicine; PlosOne; Neuroscience; Neuroepidemiology; European Journal of Neurology; Topics in Stroke Rehabilitation; Brain Stimulation; Neural Repair & Rehabilitation; Journal of Rehabilitation Research and Development; Stroke Research and Treatment; Journal of Stroke and Cerebrovascular Disease; The Journal of Clinical Hypertension; Hypertension; The Journal of Neurological Sciences; International Journal of Stroke; Translational Stroke Research; JAMA Internal Medicine.

Editorial Board Member:

- Editorial Board Member: BMC Neurology, SVIN
- Guest Editor: Post-Stroke Outcome Special Issue - Stroke Research and Treatment
- Guest Editor: Frontier in Neuroscience – Brain Stimulation
- Associate Editor: Translational Stroke Research

Media Coverage:

- “The Risk of Stroke Recurrence, Myocardial Infarct or Death in Hospitalized Stroke Patients” published in neurology Journal, was selected by American Academy Neurology press release program. It was covered by CNN, Thomas Reuters, Business Week, Post and Courier, The Columbus Dispatch and MUSC catalyst.
- “Persistent Racial Disparity in Stroke Hospitalization and Economic Impact in Young Adults in the Buckle of Stroke Belt” published in Stroke Journal. Was selected by American Heart Association/American Stroke Association for press release. It was covered by Neuronews, Daily Rx news, Medscape, Science daily & Post and Courier.
- Local Fox News about the Vagus Nerve Stimulation Rehabilitation Study
- Media news about TRANSPORT2 study
<http://academicdepartments.musc.edu/newscenter/2018/feng/index.html>
- News about manuscript “Transcranial Direct Current Stimulation Generated Electric Fields at Subcortical Levels in Human Brain in vivo. Brain Stimulation. March 8th, 2018.”
https://www.eurekalert.org/pub_releases/2018-03/muos-dot032718.php
- Pioglitazone May Lower Risk for Recurrent Stroke in Prediabetic Stroke Patients - Why Some Neurologists Are Not Ready to Prescribe It
https://journals.lww.com/neurotodayonline/Fulltext/2019/03210/Pioglitazone_May_Lower_Risk_for_Recurrent_Stroke.4.aspx

- Decision to BE FAST helps save stroke patient
<https://neurology.duke.edu/about/news/decision-be-fast-helps-save-stroke-patient>
- New Stroke Division Chief Leads Research on Motor Recovery Therapy
https://physicians.dukehealth.org/articles/new-stroke-division-chief-leads-research-motor-recoverytherapy?utm_campaign=Neurology/Neurosurgery+Issue+134++20191105&utm_source=CPT+eNewsletter&utm_medium=email&utm_content=right+article
- Winging it in the rehab world
<https://www.nrtimes.co.uk/winging-it-in-the-rehab-world/>

Grant Review:

- National Institute of Health Study Section Panel
 - Acute Neural Injury and Epilepsy (ad hoc member)
 - Motor function, speech and rehabilitation (standing member).
- American Heart Association/American Stroke Association
 - Go Red for Women Network
 - Heart Failure Network
 - Mentored Clinical Scientist Program
 - Transformational Project Award Clinical-Population Sciences
- United Kingdom Stroke Association
- United Kingdom Medical Research Council
- Australian Raine Medical Research Foundation
- Swiss National Science Foundation

Copyrights & Patent

- “LOVA³” a simple bedside post-stroke limb spasticity predicting scale.(TXu 2-159-843)
- Low intensity focused ultrasonic stimulation system for stroke recovery (63/151,852).

Leadership & Awards:

- 2021, Scientific program committee, 2022 World Congress of Neurorehabilitation
- 2019, Scientific program committee, 2020 World Congress of Neurorehabilitation
- 2018, Scientific Investigation Award, The Society of Chinese American Physicians Entrepreneurs
- 2018, Visiting Professor, The Third Affiliated Hospital, Sun Yat-Sen University
- 2018, Vice Chair, Neural Repair & Rehabilitation Section, American Academy of Neurology
- 2018, At-Large Member for the Presidium, World Federation of Neurorehabilitation
- 2016, Franz Gerstenbrand Award, World Federation of Neurorehabilitation
- 2016, Visiting Professor, XuanWu Hospital, Capital Medical University, China
- 2016, Arthur Guyton New Investigator Award, Consortium for Southeastern Hypertension Control (COSEHC)
- 2015, Visiting Professor, Xiangya School of Medicine, Central South University, China
- 2015, Nominated for “Michael Pessin Stroke Leadership Award”, American Academy of Neurology
- 2015, Stroke Rehabilitation Award, International Stroke Conference/American Stroke Association

- 2015, Travel Scholarship, Ten-Day Seminar on the Epidemiology and Prevention by American Heart Association.
- 2014, Fellowship to Clinical Trial Methodology Course, National Institute of Neurological Disorder and Stroke
- 2014, Fellow, American Heart Association/American Stroke Association
- 2013, Travel Scholarship to ANA Fifth Annual Translational and Clinical Research Course
- 2013, Fellow, American Neurological Association
- 2012, Junior Academic Neurologist, American Neurological Association
- 2012, America's Top Physician in Neurology, Consumers' Research Council of America
- 2011, Fellowship for "Multi-modal Neuroimaging Course", Martino Center For Biomedical Imaging Center, Boston, May 2011
- 2010, Vice-President, Chinese Student & Scholar Association, Harvard Medical School
- 2009, Chief Resident, Adult Neurology Residency Program, Medical University of South Carolina
- 2009, Travel Scholarship for Resident Symposium, 134th American Neurological Association Annual Meeting, Baltimore, October 2009
- 2009, Travel Scholarship for "The Fourth Annual Vascular Neurology Review Course" at the Zeenat Qureshi Stroke Research Center, The University of Minnesota
- 2009, "First Place Award" for the Resident Poster Competition, North Carolina Neurological Society 2009 Annual Conference
- 2005, Eli Lilly & Company Global Statistics Recognition Award for "Leading Role to Standardize FDA Annual Report Process"
- 2003, Eli Lilly & Company, US Medical Division "Leadership Award"
- 2003, Eli Lilly & Company US Championship for "Statistician Diversity Group"
- 2002, Eli Lilly & Company President Award for "Successfully Implement & Execution of Clinical Trials" (Team Award)
- 2001, President of Chinese Students and Scholars Association, University of Alabama at Birmingham
- 1999, Neuroscience Fellowship Award, University of Alabama at Birmingham.
- 1993, 1994, 1996 "First Class Scholarship," Xiangya School of Medicine
- 1993, 1994, 1995, 1996 "Student Leadership Award," Xiangya School of Medicine
- 1994, President of "Xiangya Readers' Association", Xiangya School of Medicine

Research Projects:

Submitted

NINDs R01

(Gregory & Feng) MPI

Combining rTMS and Aerobic Exercise to Treat Depression and Improve Post-Stroke Recovery

This project aim to determine the efficacy of combining two known anti-depressant treatments shown to be effective in non-stroke depression, aerobic exercise training (AET) and repetitive transcranial magnetic stimulation (rTMS), on post-stroke depressive symptoms

Role: Co-PI (16% efforts)

NINDS U01 grant

(Feng & Selim)MPI

Safety and Feasibility of Transcranial Direct Current Stimulation in Patients with Acute Intracerebral Hemorrhage (AFTERSHOCK).

This proposal is a phase I safety and feasibility study to study transcranial direct current stimulation in hospitalized patients with acute intracerebral hemorrhage.

Role: Contact PI (20% efforts)

Pending:

NIH Brain Initiative R01 EB031629-01

Yun & Yao (PI)

(estimated)10/01/21-08/31/23

3D Functional Photoacoustic Imaging of Human Brain with a Stretchable Ultrasound Matrix Array

This project aims to develop an innovative toolset capable of 3D functional photoacoustic imaging of the human brain.

Role: Co-Inv (5%)

NIH 1 R43 HD107718-01

Adams (PI) (estimated)10/01/21- 03/31/22

Virtual Activities of Living for Occupational Rehabilitation (VALOR)

This Phase I SBIR application proposes to develop the Virtual Activities of Living for Occupational Rehabilitation (VALOR) system, a Virtual Reality system to support telehealth delivery and remote monitoring of upper extremity (UE) stroke rehabilitation.

Role: consult (3% efforts)

Active:

20IPA35360039 AHA Innovative Project Award

Feng (PI)

01/01/2021-12/31/2022

Optimizing parameters for Low Intensity Focused Ultrasonic Stimulation for Stroke Patients

This project aims to optimize intensity and frequency two major parameters for Low Intensity Focused Ultrasonic Stimulation in stroke patients before testing for efficacy.

Role: PI (8%)

1U01NS102353-01A1

Contact PI(Feng), Co-PI(Schlaug)

08/2018 -- 07/2023

TRANScranial direct current stimulation for POst-stroke motor Recovery – a phase II sTudy (TRANSPORT 2)

This project is a multi-center phase II clinical trial to determine whether there is an overall treatment effect among 3 dose groups (sham, 2 mA and 4 mA) of Transcranial direct current stimulation for post-stroke motor recovery.

Role: Contact PI (35%)

Industry Grant

PI (Feng)

07/2016 - 12/2020

Microtransponder Inc.

A Pivotal Randomized Study Assessing Vagus Nerve Stimulation (VNS) During Rehabilitation for Improved Upper Limb Motor Function After Stroke (VNS-REHAB)

This project is a phase III pivotal trial to assess whether VNS during rehabilitation can lead to better upper extremity function after stroke.

Role: Site-PI (2%)

P2C 5P2CHD086844

PI (Kautz)

09/2015-06/2020

National Center of Neurorehabilitation For Rehabilitation (NC NM4R)

The National Center of Neuromodulation for Rehabilitation (NC NM4R) is a national resource for researchers using the exciting tools of NM4R to develop the next generation of rehabilitation interventions and to understand and study neuroplastic nervous system changes associated with rehabilitation

Role: consultant (2%)

Completed:

15SFDRN26030003

PI (Bonilha)

07/2015 - 06/2019

American Heart Association

Influence of Pre-Morbid Brain Health on Stroke Recovery

This project is to investigate how pre-stroke brain health can affect recovery from stroke with regards to focal neurological deficits and quality of life

Role: Co-Investigator (8%)

P20 GM109040-5334

PI (Feng)

06/2014 - 03/2019

NIH/NICHHD

Project 3: Optimizing Transcranial Direct Current Stimulation Current and Electrode Montage for Stroke Patients

This project is a phase I equivalent study to optimize the current level and electrode montage for Transcranial Direct Current Stimulation in stroke patients.

Role: PI (40% effort), Direct Cost: \$993,725

NIH 3R41HD090792

PI (Seo)

10/2017 - 09/2018

Therabracelet: The First and Only Wearable to Instantly Improve Stroke Hand Function.

This is a phase I STTR project that aims to investigate the feasibility and tolerability of Therabracelet to stroke patients before commercialization.

Role: Co-Investigator (5%)

Industry Grant

PI (Feng)

04/2017 – 09/2018

Ipsen Pharma Inc.

An International, Multicentre, Prospective, Single-Arm Study to Assess the Effect on Voluntary Movements of AbobotulinumtoxinA 1500 U Administered in Both Upper and Lower Limbs in Conjunction with a Guided Self-Rehabilitation Contract in Adult Subjects with Spastic Hemiparesis(ENGAGE)

This project is to evaluate Assess the Effect on Voluntary Movements of Dysport 1500 U Administered in Both Upper and Lower Limbs along with a Guided Self-Rehabilitation Contract in Adult Subjects with Spastic Hemiparesis

Role: PI (8%), Total cost: \$ 228,658

14SDG1829003

PI (Feng)

01/2014 - 06/2018

American Heart Association

Prediction and Imaging Biomarker for Post-stroke Motor Recovery

This project is to investigate whether an imaging characterization of lesion overlapped to corticospinal tract is better than clinical assessment to predict post-stroke motor recovery at 3 months.

Role: PI (12% effort) Direct Cost: \$280,000.

Industry Grant
Halo Neuroscience Inc.
Co-PI (Feng) 01/2015 - 12/2018
Modulating the Brain with Bihemispheric Direct Current Stimulation and Targeted Movement Therapy to Enhance Post-Stroke Motor Recovery.
This project is to work with Halo Neuroscience Inc. to test their first-generation transcranial direct current stimulation device on stroke patients.
Role: Co-PI (1% effort),

UL1RR029882 PI (Feng) 01/2016-12/2016
NIH/NCRR CTSA SCTR Discovery Grant Award
Transcranial current stimulation device with safe application of higher currents and real-time monitoring
This project is to develop a Transcranial current stimulation prototype device with safe application of higher currents up to 5mA and real-time monitoring.
Role: PI (2%), total direct cost: \$25,000

GMA-BTX-SP-12-001 PI (Feng) 09/2014 - 12/2017
Allergan Inc.
ASPIRE: Adult SPasticity International REgistry on BOTOX® Treatment
This multi-national prospective observational study on the use of BOTOX in treatment of spasticity will assess the patterns of administration of BOTOX by health care providers (HCPs) in treating spasticity of a variety of etiologies. In addition, the study will determine patient and HCP satisfaction with BOTOX treatment and other measures of the effectiveness and safety of BOTOX treatment for spasticity.
Role: Site-PI (5% effort), total cost: \$312, 550

NIH/NICHD HD086844 PI (Feng) 01/2016 - 12/2016
P2C High Innovation Grant
Determining Transcranial Direct Current Stimulation-generated Intracerebral Electric Fields
This is a pilot project to measure the electric fields in human brain in vivo generated by transcranial direct current stimulation. This will be done in Parkinson's disease who are undergoing deep brain stimulation.
Role: PI (2%), total cost: \$35,000

UL1RR029882 PI (Spampinato) 07/2015 - 06/2016
NIH/NCRR CTSA SCTR Discovery Grant Award
Diffusional Kurtosis Imaging of the Corticospinal Tract and Motor Outcome Prediction in Acute Ischemic Stroke
This project is to use diffusion kurtosis image to correlate the CST lesion and motor outcomes at 3 months
Role: Co-investigator (1%)

R01NS069551 PI (Thompson) 07/2015 - 06/2016
NIH/NINDS
Changing a Reflex to Improve Locomotion
This project aims to investigate whether successful H-reflex down-conditioning can improve locomotion recovery after incomplete SCI and that this improvement will persist

Role: Co-investigator (5% effort)

Asubio Pharmaceuticals, Inc. Feng (PI) 01/2012-12/2013
A Multicenter Observational Study to Evaluate the Simplified-STroke REhabilitation Assessment of Movement (S-STREAM) Scale
Role: Site-PI(10%, Total cost: \$258, 678

SCTR/CTSA Discovery Grant Feng (PI) 07/2012-09/2013
NIH/NCRR UL1 RR 029882
Predicting Motor Outcome at 3 Months Post-Stroke with Genetic, Neuroimaging and Behavioral Measures
Role: PI (12%), total cost: \$50,000

SCTR/CTSA Discovery Grant Feng (PI) 01/2013-12/2014
NIH/NCRR UL1 RR 029882
The Comprehensive Stroke Clinical, Biological, Physical and Occupational Therapy Data Repository Pilot Project
Role: PI (5%), Total cost: \$100,000

Innovative Neurotronics Feng(Co-PI) (Kautz: Co-PI) 09/2011-12/2012
Randomized Trial of the Innovative Neurotronics WalkAide Compared to Conventional Ankle-Foot Orthosis in Stroke Patients (INSTRIDE).
Role: Co-PI (4%), total cost: \$230,000

Peer-Reviewed Manuscripts:

Neuro-Modulation & Stroke Recovery:

- 1) Pratik Chhatbar, Shimeng Liu, Hernan Bayona, **Wuwei Feng**. Impact of several skin preparation procedures on skin resistant: implication for transcranial direct current stimulation research. (under review, neuromodulation)
- 2) Brian Mac Grory, Magnus Ohman, **Wuwei Feng**, Ying Xian, Shadi Yaghi, Hooman Kamel, Michael E. Reznik. Advances in the Management of Cardioembolic Stroke Associated with Patent Foramen Ovale (in revision, BMJ)
- 3) Alberto Esquenazi, Gerard Francisco, **Wuwei Feng**, Philippe Gallien, Alessio Baricich, Kristina Fanning, Aleksej Zuzek, Daniel Bandari, George Wittenberg. Real-World Adherence to OnabotulinumtoxinA Treatment for Spasticity: Insights from the ASPIRE Study. Archives of Physical Medicine and Rehabilitation, 2021 July 7; PMID: 34245684).
- 4) Chang S. Nam, Zachary Traylor, Mengyue Chen, Xiaoning Jiang, **Wuwei Feng**, Pratik Yashvant Chhatbar. Direct Communication between Brains: A Systematic PRISMA Review of Brain-to-Brain Interface. Frontiers Neurobotics. 2021 May 7;15:656943. PMID: 34025383
- 5) Zhongqiu Hong, Haiqing Zheng, Jing Luo, Mingyu Yin, Yinan Ai, Baomei Deng, **Wuwei Feng**, Xiquan Hu. Effects of Low-Frequency Repetitive Transcranial Magnetic Stimulation on Language Recovery in Poststroke Survivors With Aphasia: An Updated Meta-analysis. Neurorehabilitation & Neural Repair. 2021 May 25.PMID: 34032160

- 6) Taewon Kim, Christine Park, Pratik Yashvant Chhatbar, Jody Feld, Brian C Mac Grory, Pu Wang, Mengyue Chen, Xiaoning Jiang, **Wuwei Feng**. Effect of Low Intensity Transcranial Ultrasound Stimulation on Neuromodulation in Animals and Humans: An Updated Systematic Review. *Frontier Neuroscience*. 2021 Apr 14;15:620863. PMID: 33935656
- 7) Yawen Yang, Huijuan Pan, Wenxiu Pan, Yang Liu, Xiaohui Song, Chuanxin Niu, **Wuwei Feng**, Jixian Wang, Qing Xie. Repetitive transcranial magnetic stimulation on the affected hemisphere enhances hand functional recovery in subacute adult stroke patients: a randomized trial. *Frontier Aging Neuroscience*. 2021 May 19. PMID: 34093164.
- 8) Brian Mac Grory, Matthew Schrag, Sven Poli, Chantal J Boisvert, Martin S Spitzer, Maximillian Schultheiss, Max Nedelmann, Shadi Yaghi, Mary Guhwe, Elizabeth E Moore, Hunter R Hewitt, Kelsey M Barter, Taewon Kim, Maomao Chen, Lucas Humayun, Chang Peng, Pratik Y Chhatbar, Patrick Lavin, Xuxiang Zhang, Xiaoning Jiang, Eytan Raz, Shiv Saidha, Junjie Yao, Valérie Biousse, **Wuwei Feng**. Structural and Functional Imaging of the Retina in Central Retinal Artery Occlusion - Current Approaches and Future Directions. *J Stroke Cerebrovasc Dis*. 2021 May 16;30(7):105828. PMID: 34010777
- 9) Jesse Dawson, Charles Y Liu, Gerard E Francisco, Steven C Cramer, Steven L Wolf, Anand Dixit, Jen Alexander, Rushna Ali, Benjamin L Brown, **Wuwei Feng**, Louis DeMark, Leigh R Hochberg, Steven A Kautz, Arshad Majid, Michael W O'Dell, David Pierce, Cecília N Prudente, Jessica Redgrave, Duncan L Turner, Navzer D Engineer, Teresa J Kimberley. Vagus nerve stimulation paired with rehabilitation for upper limb motor function after ischaemic stroke (VNS-REHAB): a randomised, blinded, pivotal, device trial. *Lancet*. 2021 Apr 24;397(10284):1545-1553. PMID: 33894832
- 10) Yiqun Wu, Fei Chen, Zhaobin Sun, Yingxian Zhang, Yafang Song, **Wuwei Feng**, Yuping Wang, Ying Liu, Haiqing Song. Impact of the pandemic of COVID-19 on emergency attendance for stroke and acute myocardial infarction in Beijing, China. *J Thromb Thrombolysis*. 2021 Apr 26;1-9. PMID: 33904052
- 11) Brian Mac Grory; Ian J Saldanha, Eva A Mistry, Christoph Stretz, Sven Poli, Marek Sykora, Lars Kellert, Katharina Feil, Shreyansh Shah, Ryan McTaggart, Derek Riebau, Shadi Yaghi, Kenneth Gaines, Ying Xian, **Wuwei Feng**, Matthew Schrag. Thrombolytic Therapy for 'Wake-Up Stroke' - A Systematic Review and Meta-Analysis. *Eur J Neurol* 2021 Jun;28(6):2006-2016. PMID: 33772987
- 12) Yiqun Wu; Fei Chen, Haiqing Song, **Wuwei Feng**, Jinping Sun,, Ruisen Liu, Dongmei Li, Ying Liu. Use of a Smartphone Platform to Help With Emergency Management of Acute Ischemic Stroke: Observational Study. *JMIR Mhealth Uhealth*. 2021 Feb 9;9(2):e25488. PMID: 33560236.
- 13) Ovais Inamullah, Yuting Chiang, Muath Bishawi, Martin Weiss, Michael W Lutz, Laura J Blue, **Wayne Feng**, Carmelo Milano, Matthew Luedke, Nada El Hussein. Characteristics of strokes associated with centrifugal flow left ventricular assist devices. *Scientific Report*. 2021 Jan 18;11(1):1645. PMID: 33462301
- 14) Feras Akbik, Ali Alawieh, C Michael Cawley, Brian M Howard, Frank Tong, Fadi Nahab, Hassan Saad, Laurie Dimisko, Owen Samuels, Gustavo Pradilla, Ilko L. Maier, **Wuwei Feng**, Reda M Chalhoub, Nitin Goyal, Robert M Starke, Ansaar Rai, Kyle M Fargen, Marios-Nikos Psychogios, Pascal Jabbour, Reade De Leacy, Salah G. Keyrouz, Travis M Dumont, Peter Kan, Jan Liman, Adam S Arthur, David J Mccarthy, Vasu Saini, Stacey Q Wolfe, J Mocco, Johanna T Fifi, Fábio A Nascimento, Ahmad Sweid, James A Giles, Roberto Crosa, W. Christopher Fox, Benjamin Gory, Alejandro M Spiotta, and Jonathan A. Grossberg. Bridging Therapy Increases Hemorrhagic Complications without Improving Functional Outcomes in Atrial Fibrillation Associated Stroke (**Submitted JAMA Neurology**).
- 15) Lucas Humayun, Colin Smith, Wanlu Li, YuShrinke Zhang, Christine Park, **Wuwei Feng**, Junjie Yao. SARS-CoV-2-related vascular injury: mechanisms, imaging and models. *Microphysiological System* 2021. 2021 Jan; 5:1. PMID: 33981998

- 16) Yiqun Wu, Fei Chen , Zijing Wang , **Wuwei Feng** , Ying Liu Yuping Wang, Haiqing Song. Reductions in Hospital Admissions and Delays in Acute Stroke Care During the Pandemic of COVID-19. *Front Neurol*. 2020 Nov 5;11:584734 . PMID: 33250851.
- 17) Soeren Mattke; Steve Cramer; Janet Prvu Bettger; Kevin Cockcroft; **Wuwei Feng**; Michael Jaffee; Tolu Oyesanya; Ava Puccio; Nancy Temkin; Carolee Winstein; Steven Wolf; Michael Yochelson, Estimating Minimal Clinically Important Differences for Two Scales in Patients with Chronic Traumatic Brain Injury. *Current Medical Research and Opinion (ICMO)*, 2020 Dec;36(12):1999-2007. PMID: 33095678
- 18) Joseph Broderick, Jordan Elm, Scott Janis, Wenle Zhao, Claudia Moy, Catherine Dillon, Marc Chimowitz, Ralph L Sacco, Steven Cramer, Steven Wolf, Karen C Johnston, Jeffrey Saver, Randolph Marshall, Devin Brown, Max Wintermark, Mitchell Elkind, Hooman Kamel, David L Tirschwell, W T Longstreth, Ronald Chervin, Opeolu Adeoye, Andrew Barreto, James C Grotta, Sharon L Ramey, Warren D Lo, **Wuwei Feng**, Gottfried Schlaug, Kevin Sheth, Magdy Selim, Andrew Naidech, Maarten Lansberg, Ronald Lazar, Gregory Albers, Jessica S Griffin, Logan Sirline, Jamey Frasure, Clinton Wright, Pooja Khatri, NIH StrokeNet Investigators. National Institutes of Health StrokeNet During the Time of COVID-19 and Beyond. NIH strokeNet Invesigators. *Stroke* 2020 Aug 51(8): 2580-2586. PMID: 32716819
- 19) Xiaoling Yao, Lijun Cui, Jixian Wang, **Wuwei Feng**, Yong Bao, Qing Xie. Effects of transcranial direct current stimulation with virtual reality on upper limb function in patients with ischemic stroke: a randomized controlled trial. *J Neuroeng Rehabil*. 2020 Jun 15;17(1):73. PMID: 32539812
- 20) Ali Alawieh, Maya Eid, Mohammad Anadani, Mithun Sattur, Ilko L Maier, **Wuwei Feng**, Nitin Goyal, Robert M Starke, Ansaar Rai, Kyle Fargen et al. Thrombectomy Technique Predicts Outcome in Posterior Circulation Stroke-Insights From the STAR Collaboration. *Neurosurgery*, 2020 May 20. PMID: 32433730
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- 7) Rong Chen, **Wuwei Feng**. Botulinum Toxin for Post-Stroke Spasticity (Chapter 12). Ischemic Stroke Therapeutics: A Comprehensive Guide. Spring Science Publisher. 2015

Presentation/Posters/Abstracts

- 1) **Lindsay Heffron**, Jody A. Feld, Chih Hung Chang, Pratik Y. Chhatbar, **Wuwei Feng** The Effectiveness of the Lower Extremity Fugl-Meyer Motor Assessment to Precisely Measure Motor Recovery from Acute to Chronic Stage Post Stroke: A Rasch Analysis. American Congress of Rehabilitation Medicine 2021.
- 2) Alberto Esquenazi, **Wuwei Feng**, George Wittenberg, Philippe Gallien, Alessio Baricich, Kristina Fanning, Aleksej Zuzek, Gerard Francisco, Daniel Bandari. Adherence to OnabotulinumtoxinA Treatment in Post-Stroke and Multiple Sclerosis Patients with Spasticity from the ASPIRE Study. ISPRM-AAP 2020, Orlando, FL; March 4-9, 2020
- 3) Alberto Esquenazi, **Wuwei Feng**, George Wittenberg, Philippe Gallien, Alessio Baricich, Kristina Fanning, Aleksej Zuzek, Gerard Francisco, Daniel Bandari. Clinical Characteristics that Impact OnabotulinumtoxinA Treatment Adherence in Patients with Spasticity from the ASPIRE Study. American Academy of Neurology, Toronto, April 25-May 1, 2020.
- 4) Alberto Esquenazi, **Wuwei Feng**, George Wittenberg, Philippe Gallien, Alessio Baricich, Kristina Fanning, Aleksej Zuzek, Gerard Francisco, Daniel Bandari. Clinical Characteristics that Impact OnabotulinumtoxinA Treatment Adherence in Patients with Spasticity from ASPIRE. 14th UK Stroke Forum. Telford, England; December 3-5, 2019
- 5) Physician's Global Assessment of Response to Repeated Dysport Injections in Adults with Lower Limb Spasticity Post-Stroke or Traumatic Brain Injury. Alberto Esquenazi, **Wuwei Feng**, Khashayar Dashtipour, Anthony Rodrigues, Claire Vilain, Gustavo Suarez, Jean-Michel Gracies. American Academy of Neurology Annual Conference. Los Angeles, April 21-27, 2018.
- 6) Determine the Optimal Time Window and Intensity of Exercise for Stroke Recovery: An Animal Study. Haiqing Zheng, **Wuwei Feng**, Xiquan Hu. International stroke conference, Jan 23-26, 2018. Los Angeles
- 7) Is Remote Ischemic Conditioning safe in Clinical Practice: A Systematic Review. Shimeng Liu, Bruce Ovbiagele, **Wuwei Feng**, Xunming Ji. International stroke conference, Jan 23-26, 2018. Los Angeles
- 8) Operant down-conditioning of the Soleus H-reflex in Subjects with Stroke: a feasibility Assessment. Christina Gill, Richard Segal, **Wuwei Feng**, A Dutt-Mazumder, Aiko Thompson. Society for Neuroscience 2017. Nov 10-17, Washington DC.
- 9) Safety and tolerability of transcranial direct current stimulation to stroke patients - A phase I current escalation study. Pratik Chhatbar, Steve Kautz, Marc George, Hernan Bayona, Shimeng Liu, **Wuwei Feng**. American Society of Neurorehabilitation Annual Conference 2017. Nov 8-11. Baltimore.
- 10) Safety and tolerability of transcranial direct current stimulation to stroke patients - A phase I current escalation study. Pratik Chhatbar, Steve Kautz, Marc George, Hernan Bayona, Shimeng Liu, **Wuwei Feng**. American Neurological Association Annual Conference 2017. Oct 15-18. San Diego.
- 11) A Simple Bedside Grading Scale Can Effectively Predict Severe Post-Stroke Upper-Extremity Spasticity. Hernan Bayona, Pratik Chhatbar, Shimeng Liu, **Wuwei Feng**. International Stroke Conference. Feb 21-24, 2017, Houston.
- 12) Dose Escalating Phase I Transcranial Direct Current Stimulation for Stroke Patients. Pratik Chhatbar, Steve Kautz, Marc George, Hernan Bayona, Shimeng Liu, **Wuwei Feng**. International Stroke Conference. Feb 21-24, 2016, Houston.
- 13) Correlation of NIH Stroke Scale and Fugl-Meyer Motor Scales in a Longitudinal Stroke Recovery Study: Implication for Feasibility Survey for Stroke Rehabilitation Trial. Pratik Y. Chhatbar; Hernan F. Bayona; Gottfried Schlaug; Wuwei Feng. International Stroke Conference. Feb 21-24, 2017, Houston.

- 14) A Systematic Comparison of Key Features of Ischaemic Stroke Prevention Guidelines in Low- and Middle-income vs. High-income Countries. Hernan O Bayona, Mayowa Owolabi, Wayne Feng, James R Sawers, Paul Olowoyo, Joseph Yaria, Rufus Akinyemi, Bruce Ovbiagele. International Stroke Conference. Feb 21-24, 2016, Houston
- 15) Safety and Efficacy of Lower Dose versus Standard Dose r-tPA: A Meta-Analysis. Yi Dong, Pratik Y Chhatbar, Shimeng Liu; Qiang Dong, Bruce Ovbiagele, **Wuwei Feng**. International Stroke Conference. Feb 21-24, 2016, Houston
- 16) Existence of Neutrophil Extracellular Traps in Arterial Thrombi from Patients with Acute Ischemic Stroke. Wei Li, Huan Wang, **Wuwei Feng**, Meng Zhang. International Stroke Conference. Feb 21-24, 2016, Houston
- 17) Microdermabrasion facilitates direct current stimulation by lowering skin resistance. Pratik Chhatbar, shimeng Liu, **Wuwei Feng**. American Society of Neurorehabilitation, San Diego. Nov 8-11, 2016.
- 18) The Characteristics of Acute Ischemic Stroke Treatment Clinical Trials Over the Past Twenty Years: Implications for Future Trial Design. Yi Dong, Pratik Y Chhatbar, Shimeng Liu, Qiang Dong, Bruce Ovbiagele, **Wuwei Feng**. International Stroke Conference. Feb 21-24, Houston. 2016
- 19) Differential Motor Recovery pattern in Arm and Leg after Middle Cerebral Artery Stroke. Pratik Chhatbar; Steve Kautz, Jasmine Wang; Gottfried Schlaug; **Wuwei Feng**. World Federation of Neurorehabilitation, May, 2016
- 20) Racial Variation in Stroke Recovery – A Meta-Analysis. Pratik Chhatbar; Hamin Lee; Bruce Ovbiagele; Daniel Lackland; Robert Adams; **Wuwei Feng**. International Stroke Conference, Feb, 2016.
- 21) A novel VLSM-CST lesion load model is a superior predictor of motor outcomes of acute stroke patients. Jing Wang, Pratik Chhatbar, **Wuwei Feng**, Gottfried Schlaug. International Stroke Conference 2016; Los Angeles, CA.
- 22) An Update on Meta-analysis of tDCS in Post-stroke Motor Recovery Pratik Chhatbar, Steve Kautz, **Wuwei Feng**. International Stroke Conference, Feb, 2016.
- 23) Gender Difference in Stroke Recovery - Analysis of NINDs rtPA Trial with Propensity Score Method. Rong Chen; Chun Li; Bruce Ovbiagele; Daniel Lackland ; **Wuwei Feng**. American Neurological Association 2016 Annual Conference. September 29, 2015. Chicago, IL.
- 24) Proportional Motor Recovery Exists in the Lower Extremity After Stroke. **Wuwei Feng**; Pratik Chhatbar; Steve Kautz, Gottfried Schlaug. American Neurological Association 2015 Annual Conference. September 29, 2015. Chicago, IL.
- 25) Dose Response relationship in transcranial direct current stimulation trial for post-stroke motor recovery Trials. **Wuwei Feng**, Robert Adams, Steven Kautz. Pratik Chhatbar International stroke Conference, Feb 10-13, 2015 Nashville, TN.
- 26) The Impact of Contrast Based CTA/CTP Brain Attack Protocol on Kidney Function. Jamie Folsom, Nnadozie Ezerioha, Pratik Chhatbar, Swaroop Pawar, Christina Holmstedt, Edward Jauch, Bruce Ovbiagele, Robert J Adams, **Wuwei Feng**. International stroke Conference, Feb 10-13, 2015 Nashville, MN.
- 27) Overcoming hurdles towards maximally effective transcranial direct current stimulation. **Pratik Chhatbar, Wuwei Feng**. American Society of Neurorehabilitation Annual Conference. Nov. 13. 2015, Washington DC.

- 28) Clinicoanatomical correlation of post-stroke limb spasticity. Alex Clarke, Jun-Hong Park, **Wuwei Feng**, Translational Science Annual Conference April 5-8, 2014.
- 29) A Simple Bedside Grading Scale Can Predict Severe Post-Stroke Upper-Limb Spasticity. **Wuwei Feng**; Andrew Gundran; Maddy Athreya; Lindsay Perry; Steven Kautz; Robert J Adams. International Stroke Conference, Feb 5-8, 2014
- 30) Persistent Racial Disparities in Outcomes for Middle-aged People With Intracerebral Hemorrhage in the US Stroke 'Buckle'. Andrea Boan, **Wuwei Feng**; Robert J Adams, Bruce Ovbiagele, Daniel T Lackland. International Stroke Conference, Feb 5-8, 2014
- 31) Recent Rise in Stroke-Related Emergency Department Visits by Young and Middle-aged Adults in the United States. Wenyu Sun, Andrea Boan, Bruce Ovbiagele, Robert Adams, Charles Ellis, Daniel Lackland, **Wuwei Feng**. International Stroke Conference, Feb 5-8, 2014
- 32) A Clinical Assessment and Neuro-Imaging based Grading Scale Predicts Severe Post-Stroke Limb Spasticity. **Wuwei Feng**, Michelle Woodbury, Lindsay Perry, Steve Kautz, Robert Adams. American Congress of rehabilitation Medicine Annual Conference. Nov 12-16, 2013.
- 33) Neuroimaging, Not Clinical Assessment Predicts Post-Stroke Motor Outcome in Severely Impaired Stroke Patients. **Wuwei Feng**, Jing Wang, Christopher Doughty, Christine Holmstedt, Gottfried Schlaug. Internal Stroke Conference, Feb5-8, 2013
*** (Top 10% of all accepted abstracts).
- 34) Acute Damage to Corticospinal Tract Detected by Diffusional Kurtosis Correlated with Motor Outcome at 3 Months After Stroke – A Preliminary Report. **Wuwei Feng**; Edward Hui; Jenna-lyn Johnson; Jens H. Jensen; Joseph Helpern; Ali Tabesh, Leonardo Bonilha; Mark G Bowden; Steven Kautz; Robert Adams, Internal Stroke Conference, Feb5-8, 2013
- 35) Trends of Racial Disparity in Stroke Hospitalization Rate, Hospital Charges in the Buckle of Stroke Belt In the Past Decade (2001-2010). Andrea Boan, Daniel Lackland, Robert J. Adams, David Bachman, **Wuwei Feng**. Internal Stroke Conference, Feb5-8, 2013
- 36) Blood Pressure and Acute Ischemic Stroke. Angela M. Malek, Robert Adams, Andrea D. Boan, **Wuwei Feng**, Daniel Lackland. American Society of Hypertension annual conference. May 11-19. 2012.
- 37) **Wuwei Feng**, Evgeny Sidorov, Jing Wang, Gottfried Schlaug. Absence of Upper Limb Movement within 72 Hours after Acute Ischemic Stroke Predicts Spasticity at 3 Months. American Academy of Neurology 64th Annual Conference, April 21 -28, 2012 New Orleans, LA.
- 38) Evgeny Sidorov, Matthew Reynolds, **Wayne Feng**, Magdy Selim Cost-Minimization Analysis of CT vs. MRI in the Evaluation of Patients with Transient Ischemic Attacks at a Large Academic Center. American Academy of Neurology 64th Annual Conference, April 21 -28, 2012 New Orleans, LA
- 39) Joseph Helpern, Edward Hui, Leo Bonilha, Ali Tabesh, **Wuwei Feng**, Robert Adams, Jens Jensen. Diffusional Kurtosis Imaging Assessment of Motor Impairment in Stroke Patients. ASNR 50th Annual Meeting, April 21-26, 2012, New York, NY
- 40) **Wuwei Feng**. Predicting Motor Outcome at 3 Months Post-stroke. Invited symposium, Junior Investigator Session. International Stroke Conference, New Orleans. Feb 1-3. 2012
- 41) **Wuwei Feng**, Jing Wang, Sidorov Evigeny, Chrstine Holmsted, Christopher Doughty, Gottfried Schlaug. Lesion load of Corticospinal Tract and Initial Motor Impairment in the Acute Phase Predict

Motor Impairment 3 Months Post-Stroke. International Stroke Conference, New Orleans. Feb 1-3. 2012

- 42) **Wuwei Feng**, Gabriela Vasquez, M. Fareed K. Suri, Kamakshi Lakshminarayan, Adnan I. Qureshi. Augmented Treatment Efficacy with Repeated Measures Analysis of NINDS rt-PA Study. American Academy of Neurology Annual Meeting, Toronto, Canada, April 10-17, 2010
- 43) **Wuwei Feng**, Robert Hendry, Robert Adams. The Risk of Stroke Recurrence, Myocardial Infarct or Death in Hospitalized Stroke Patients. International Stroke Conference 2010, San Antonio, Feb 23-26, 2010
- 44) **Wuwei Feng**, Robert Hendry, Robert Adams. The Risk of Stroke Recurrence, Myocardial Infarct or Death in Hospitalized Stroke Patients in South Carolina. Research Day, Center on Aging, Charleston, Feb 17-18, 2010
- 45) **Wuwei Feng**, Paul Nietert, Robert Adams. The Influence of Age on Racial Disparity in Stroke Admissions, Hospital Charges and Stroke Outcomes in South Carolina. American Academy of Neurology (AAN) 2009 Annual Meeting, Seattle, WA. April 25-May 2, 2009.
- 46) **Wuwei Feng**, Paul Nietert, Robert Adams. The Hospital Charges for Stroke Admissions Attributable to Racial Disparities in South Carolina during 2002–2006. North Carolina Neurology Annual Conference, Chapel Hill, NC. February 20-21, 2009.
- 47) **Wuwei Feng**, Michael Caplan, Maria G. Matheus, Nikolaos I. H. Papamitsakis, Meningovascular Syphilis with Fatal Vertebrobasilar Occlusion. North Carolina Neurology Annual Conference, Chapel Hill, NC. February 20-21, 2009.
- 48) **Wuwei Feng**, Jun Yu, Michelle Xu, A Method Based on Propensity Score and Mahalanobis Distance to Reduce Bias in Treatment Comparison in Observational Study. 2006 PharmaSug, Bonita Springs, FL, May 21-24, 2006
- 49) J. Owens, R. B. Sangal, V. Sutton, R. Bakken; **Wuwei Feng**, A. J. Allen, D. Kelsey; Sleep of Children With ADHD Compared with Healthy Control Subjects, AACAP, Washington DC, Oct 19 2004.
- 50) B Sangal, J Owens, A Allen, V Sutton, **Wuwei Feng**, D. Kelsey; Effects of Atomoxetine and Methylphenidate on Sleep in Children with ADHD. American Psychological Association; Honolulu, HI; July 28, 2004.
- 51) **Wuwei Feng**, Dong Ding; SAS Application in 2 by 2 Cross-over Clinical Trial, 2004 PharmaSugs, San Diego, May 22-26, 2004
- 52) Virginia Sutton, Carl Sumner, AJ Allen, **Wuwei Feng**, Kolly Schuh Validity, Reliability, and Responsiveness of the DPREMB-R Scale for ADHD. AACAP, Oct 14, 2003, Miami, FL.
- 53) Jun Xie, Ping Wang, **Wuwei Feng**; A Novel Application of LAPS for the Determination of Serotonin, Transducers'97 (The International Conference on Solid-State Sensor & Actuators) Chicago, June 16-19, 1997: 489-492.

Invited Talk:

- 1) Transcranial Direct Current Stimulation for Stroke Motor Recovery: from Phase I to Phase II. Neurology Grand Round, University of New Mexico. November 20, 2020
- 2) Update on Brain Modulation on Neurorehabilitation. 2020 World Congress of Neurorehabilitation, October 9-12, 2020

- 3) Impact of SARS-COV-2 on Stroke and Stroke care. 2020 World Congress of Neurorehabilitation, October 9-12, 2020
- 4) Dose issues in Transcranial Direct Current Stimulation for Stroke patients, (served as the session chair); 2019 European Congress of Neurorehabilitation. October 9-12, Budapest, Hungary
- 5) Dose issues in Transcranial Direct Current Stimulation for Stroke patients; NeuroRehabilitation Expert Workshop 2019, Department of Rehabilitation Medicine; Seoul National University. September 6-8, Seoul, South Korea
- 6) Transcranial Direct Current Stimulation for Stroke Motor Recovery. 9th European Teaching Course on Neurorehabilitation, July 6-7, Prasov, Romania.
- 7) Thrombolytics for ischemic stroke: History, Present and Future. 2019 China National Stroke Conference, May 8-10, Beijing, China.
- 8) Transcranial Direct Current Stimulation for Stroke Motor Recovery. 2019 National Center of Neuromodulation for Rehabilitation advanced workshops in Transcranial Direct Current Stimulation. March 27-28, 2019, Charleston. SC
- 9) Transcranial Direct Current Stimulation for Neuro-rehabilitation: High Dose Approach. 2018 NYC Neuromodulation Conference & NANS summer series. August 23-26, 2018, New York City, NY
- 10) Transcranial Direct Current Stimulation for Post-Stroke Recovery: Ready for Prime Time. Special Neuroscience Symposium, Department of Neurology, Duke University. June 14, 2018.
- 11) Transcranial Direct Current Stimulation for Post-Stroke Recovery: Ready for Prime Time. Grand Rounds, Department of Neurology, University of South Carolina. May, 31, 2018.
- 12) Transcranial Direct Current Stimulation for Stroke Motor Recovery: from Animal Study to Human Study. Department of Rehabilitation Grand Rounds, Ruijing Hospital, Shanghai Jiaotong University. May 11, 2018.
- 13) Transcranial Direct Current Stimulation for Stroke Motor Recovery: Hurdles and Opportunities China National Stroke Conference 2018. May 3-6. Beijing, China
- 14) Stroke Mobile Units: Recent Advances. China National Stroke Conference 2018. May 3-6. Beijing, China
- 15) Implication of US tele-stroke practice to China. China National Stroke Conference 2018. May 3-6. Beijing, China
- 16) Stroke Recovery and Rehabilitation: State of the Art on the Horizon. Comprehensive Stroke Management Update 2017. April 6-7, 2018, Hilton Head, SC
- 17) Epidemiology of Diabetic Strokes. Diabetes Symposium; International Stroke Conference, January 24-26, Los Angeles, CA, 2018
- 18) Current Status of Tele-stroke in the US. Annual Conference of Chinese American Neurological Society. September, 3-5, 2017, San Diego, CA.
- 19) Brain Stimulation: A Sizzling Area for Scientist as well as Investors. Annual Conference of Society of Chinese American Physicians Entrepreneur, August 18-19, 2017, Las Vegas, NV.
- 20) Post-stroke Limb Spasticity: What is the Catch. Department of Neurology Grand Rounds, August 3, 2017, Charleston. SC.
- 21) Brain Stimulation: current status and future directions. CSA/WSA/ASA symposium, Chinese Stroke Association Annual Conference, June 23-25, 2017, Beijing, China
- 22) Several Critical Translational Issues in tDCS for Stroke Recovery. Department of Rehabilitation Medicine, Xuanwu Hospital, Beijing, June 17, 2017, Beijing, China.

- 23) Stroke Recovery: State of the Art on the Horizon. Comprehensive Stroke Management Update 2017. April 4-6, 2017, Hilton Head, SC.
- 24) Transcranial Direct Current Stimulation for Post-Stroke Recovery: Hurdles and Opportunities. March 26, National Center of Neuromodulation for Recovery Workshop, March, 29, 2017
- 25) Prediction and Imaging Biomarker for Post-Stroke Motor Recovery. Medicine Grand Rounds, Medical University of South Carolina, March 2nd, 2017
- 26) Transcranial direct current stimulation for post-stroke motor recovery – Hurdles and Opportunities. Physical Medicine and Rehabilitation Grand Rounds, The Third Hospital Affiliated Sun Yat-Sen Medical school. Guangzhou, October 21st, 2016.
- 27) Preservation, Prevention and Plasticity – Maximize Post-Stroke Outcomes. Nanjing Rehabilitation Medicine annual conference. Nanjing, China, October 14-18, 2016.
- 28) Dose response relationship in tDCS for post-stroke motor recovery. World Federation of Neurorehabilitation. May 12, 2016.
- 29) Weighted CST-Lesion Load – An imaging biomarker for Post-Stroke Motor Outcomes. World Federation of Neurorehabilitation. May 12, 2016.
- 30) Spasticity – A undertreated post-stroke complication. International Symposium for Cerebrovascular Disease. Bogota, Colombia, March 10. 2016
- 31) Telemedicine and Stroke Treatment- Experience from South Carolina REACH Telestroke Network. The 4th Xiangya Cerebrovascular Disease and Stroke. Shangsha, China. December 12, 2015
- 32) Post-stroke Motor Recovery and Outcome Recovery. Minghuang Hospital affiliated to Fudan University. December, 9, 2015.
- 33) Complications after Stroke: Long Battles towards Recovery. The second Annual Comprehensive Stroke and Cerebrovascular Update. November, 14, 2015.
- 34) Neuro stimulation for stroke treatment. SCBIO Annual Conference. November 6, 2015
- 35) Stroke Recovery and Rehabilitation, Neuroscience Grand Rounds, Mission Hospital in Asheville, October 23, 2015
- 36) Update on Stroke Recovery and Rehabilitation, Neurology Grand Rounds, Mercer University of School of Medicine, October 13, 2015
- 37) Diabetes and Stroke. 21st Annual Diabetes Fall Symposium for Primary Health Care Professionals, September 17-18, 2015
- 38) Translational Research in Stroke Lessons & Opportunities for Researchers and Investors. The Society of Chinese American Physician Entrepreneurs (SCAPE) 2015 Conference. August, 8, 2015. Stanford University, CA
- 39) Transcranial Direct Current Stimulation for Post-Stroke Motor Recovery Dilemma for Clinical Research & Opportunity for Animal Research. Grand Rounds, Eastern-South University, June 30, 2015. Nanjing, China.
- 40) Transcranial Direct Current Stimulation for Post-Stroke Motor Recovery Ready for Prime Time. The first annual conference of Chinese Stroke Association. June 26, 2015. Beijing, China
- 41) Tele-medicine: Challenges and Opportunities. International Consortium of Translational Medicine Conference. Philadelphia, May 18, 2015.
- 42) Botulinum toxin of Post-stroke Spasticity, Annual Neurology Update for the Primary Care Provider, March 21st, 2015.

- 43) Recent Advances in Stroke Acute Recovery and Rehabilitation. Shanghai's 9th hospital. Shanghai, China, July 1st, 2014.
- 44) Predictions and Imaging Biomarker for Post-Stroke Motor Recovery. Tiantan International Stroke Conference. Beijing, China. June, 28, 2014.
- 45) Early management of Acute Ischemic Stroke – A review of American Heart Association's new guideline. The Opening conference of acute treatment and prevention of cerebrovascular disease in Shangdong Province. China. June 19, 2015.
- 46) Telehealth and TeleStroke – Experience from South Carolina. Xuanwu Hospital, Beijing, China. June 20, 2015.
- 47) Transcranial Direct Current Stimulation for Post-Stroke Recovery. 2014 psychiatry update-clinical brain stimulation. Charleston, June 4-6, 2014
- 48) Recent Advances in Stroke Acute Treatment and Rehabilitation. American Society of Physical Therapy, South Carolina Chapter. Charleston, March 29, 2014
- 49) Imaging Biomarker and Prediction of Post-Stroke Motor Recovery. MUSC Neuroscience Grand Rounds, Charleston, SC, January 9, 2014.
- 50) Modulating the brain with bihemispheric direct current stimulation with constraint-Induce Movement Therapy to Enhance Post-Stroke Motor Recovery. Center of Aging, MUSC, Dec. 5, 2013
- 51) Post-Stroke Limb Spasticity: Prevalence, Presentation & Treatment. Integrated Stroke and Cerebrovascular Conference. Nov 17, 2013
- 52) Risk of Stroke in Chinese Immigrants: Stroke Prevention, Treatment and Recovery. Charleston Chinese Church in James Island, May 7, 2013
- 53) The Burden of Stroke in South Carolina – Impact on Ageing. MUSC Ageing Research Day, Charleston, March 8th, 2013.
- 54) Stroke Epidemiology, Acute Treatment and Tele-stroke Network in the State of South Carolina. South Carolina Occupational Therapy Association Annual Conference, Columbia, February 23rd, 2013
- 55) Predicting Motor Outcome at 3 Months Post-stroke, Invited symposium, Junior Investigator Session, International Stroke Conference, New Orleans, February 1st, 2012.
- 56) Secondary Stroke Prevention; Roper Hospital Rehabilitation, Charleston, March 21, 2010
- 57) Stroke Epidemiology in South Carolina; Neuroscience Grand Rounds, Department of Neuroscience, Medical University South Carolina, Charleston, May, 27, 2010
- 58) Stroke Epidemiology in the Buckle of Stroke Belt; Department of Neurology, Georgetown University, January 15, 2012
- 59) Predicting and Promoting Post-Stroke Motor Recovery ; Department of Neurology, University of Cincinnati, April 12, 2012
- 60) Career Pathway for MD from China – Neuroscientist or Neurologist. Neuroscience Career Saloon, Chinese Student and Scholar Association, Boston, April, 24, 2011
- 61) Neuroimaging in Stroke Recovery Research; 2011 South Carolina Biomedical Imaging Retreat, North Charleston, Oct 24, 2011.
- 62) Stroke incidence, Mortality and Outcome in South Carolina; Grand Rounds, Department of Neuroscience, Medical University of South Carolina. May, 2010

Mentoring:

- **College Student**
 - Hamin Lee from University of Pittsburg (2012, 2013 summer)
- **Graduate Student**
 - Shawn Bo Song (2011 – 2012): MSCR Student Thesis Committee
 - Janani Sridhar (2012-2013): MSCR Student Thesis Committee
 - Maddy athreya (2011-2012): MSCR student thesis committee
 - Nina Burkett (2014 – 2015): MSCR student thesis committee
 - Salma Babiker (2014 – 2015): MSCR student thesis committee
 - Rose Liu (2015- 2016): MSCR thesis advisor
 - Vijay Panaluda (2015 – 2016): MSCR thesis advisor
- **Medical Student**
 - Jenna Johnston (2011 – 2012): Medical Student Summer Research
 - Alex Clarke (2013 – 2015): Medical student research
 - Christopher Bridges (2014 – 2015): Medical student research
 - Nnadozie Ezerioha (2014 – Present): Medical Student Research
 - Ali Alawieh (2015 - 2016): Medical Student Research Advisor
 - Amber Toutonji (2016 – 2017: Medical Student Research Advisor
 - Colin Smith (2017 – Present): Medical Student Research
 - Christine Park (2020- Present): Medical Student Research
 - Lindsay Heffron (2020- Present): Physical Therapy Student Research
 - Alea Penner (2020 – Present): Physical Therapy Student Research
- **Neurology Resident**
 - Dongin Sinn (2012 – 2014): Neurology Resident Research Advisor
 - Wenyu Sun (2013 –2014): Neurology Resident Research Advisor
 - Gabriel Bonnell (2015- 2016): Neurology Resident Research Advisor
 - Alexandra Paroshos (2017- Present): Neurology Resident Research Advisor
 - Eyad Almallouhi (2017- 2019): Neurology Resident Research Advisor
 - Guttalu Kumaraswamy (2018-2019): Neurology Resident Research Advisor
 - Marin Weiss (2019- Present): Neurology Resident Research Advisor
 - Dyan Ryan (2020 – Present): Neurology Resident Research Advisor
- **Post-Doc/Visiting Scholar**
 - Jung-Ho Park (2013 – 2014): International Stroke Research Fellow
 - Rong Chen (2014 –2015): International Stroke Research Fellow
 - Pratik Chhatbar (2013 –2016): Post-doc Fellow
 - Hernan Bayona (2015 - 2016): International Stroke Research Fellow
 - Yumei Liu (2015 -2016): International Stroke Research Fellow
 - Yin Yun (2016-2017): International Stroke Research Fellow
 - Haiqing Zheng (2017 - Present): International Stroke Research Fellow
 - Bin Zhang (2017- Present): International Stroke Research Fellow

- Taewon Kim (2019- Present): Post-doctoral Fellow
- **Vascular Neurology Fellow**
 - Ashley Wabnitz (2015-- 2016): Vascular Neurology Fellow
 - Jessica Hannah (2015 – 2016): Vascular Neurology Fellow
 - Daniel Abenroth (2016- 2017): Vascular Neurology Fellow
 - Lidia Yamada (2016- 2017): Vascular Neurology Fellow
 - Taron Gotron (2017 – 2018): Vascular Neurology Fellow
 - Justin Lowes (2017 – 2019): Vascular Neurology Fellow
 - Deepak Reddy (2018- 2019): Vascular Neurology Fellow
 - Guttalu Kumaraswamy (2018-2019): Vascular Neurology Fellow
 - Ovais Inamullah (2020– Present): Vascular Neurology Fellow
- **Junior Faculty**
 - Chitra Lal. (2015 –2017): Junior Faculty in Division of Pulmonary Medicine; MUSC
 - Pratik Chhatbar (2016- Present): Junior Faculty in Neurology, Duke University
 - Cathra Halbi (2018- Present): Junior faculty from UCSF
 - Oluwole Wosika (2018- Present): Junior Faculty from University of Cincinnati
 - Jody Feld (2019- Present): Junior Physical Therapy Faculty from Duke University
 - Scot Le (2019- Present): Junior Neurology Faculty from Duke University
 - Shree Shah (2019- Present): Junior Neurology Faculty from Duke University
 - Brian Mac Grory (2020 – Present): Junior Neurology Faculty from Duke University
- **Nurse Practitioner**
 - Jamie Folsom (2014 -2015) Nurse Practitioner from Stroke Center.
 - Mary Ghuwe (2020 – Present) Nurse Practitioner from Stroke Center.

Educational Activities:

- 1) Course Director: Neurovascular (Stroke) Outpatient Rotation for MS III
- 2) Course Director: Neurovascular (Stroke) Outpatient Rotation for MS IV
- 3) International Stroke Visiting Scholar and Student Trainees Program Director
- 4) Neurorehabilitation Medical Student Rotation Task Force Member
- 5) Department of Neurology Grand Rounds Committee Member
- 6) Department of Neurology Resident Education Committee Member
- 7) ACGME Vascular Neurology Program Director, MUSC
- 8) Center of aging Executive Member Committee, MUSC

Continuing Medical Education:

- 1) Ten-Day Seminar on the Epidemiology and Prevention by American Heart Association, July-August 2015, Lake Tahoe, CA
- 2) NINDs Clinical Trial Methodology Course. July, 2014. Iowa City, IA
- 3) Spasticity: Diagnosis and Treatment. May, 2014, Winston-Salem, NC
- 4) American Neurological Association Fifth Annual Translational and Clinical Research Course, May, 2013, Baltimore, MD
- 5) MUSC Aging Research Day, March 8th, 2013. Charleston, SC
- 6) Regional Injection Training Engagement: Cadaver Course, June 8, 2012, Charlotte, NC
- 7) Multi-modal Neuroimaging Course, April, 2011, Boston, MA

8) Neuro-modulation Symposium, December, 2010, Boston, MA