

CURRICULUM VITAE

Chad Carlson MD

**Interim Chair, Professor
Department of Neurology
Division of General**

OFFICE ADDRESS:

Hub for Collaborative Medicine
8701 Watertown Plank Road
Milwaukee, WI 53226

EDUCATION:

09/1992 - 05/1997 B.A. with Honors in German Literature., University of Wisconsin - Madison, Madison, WI
06/1996 - 05/2000 M.D., University of Wisconsin - Madison School of Medicine, Madison, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

07/01/2000 - 06/30/2001 Internship (Categorical), Department of Internal Medicine, University of Illinois - Urbana/Champaign, Urbana, IL
07/01/2001 - 06/30/2004 Neurology Resident, Department of Neurology, University of Iowa Hospitals and Clinics, Iowa City, IA
07/01/2003 - 06/30/2004 Chief Resident, Department of Neurology, University of Iowa Hospitals and Clinics, Iowa City, IA
07/01/2004 - 06/30/2005 Clinical Neurophysiology Fellow, Department of Neurology, Epilepsy Division, New York University School of Medicine, New York City, NY
07/01/2005 - 06/30/2006 Epilepsy/Epilepsy Surgery Fellow, Department of Neurology, Epilepsy Division, New York University School of Medicine, New York City, NY

FACULTY APPOINTMENTS:

03/2006 - 01/2008 Instructor, Department of Neurology, Epilepsy Division, New York University School of Medicine, New York City, NY
01/2008 - 12/14/2012 Assistant Professor, Department of Neurology, Epilepsy Division, New York University School of Medicine, New York City, NY
12/14/2012 - Present Adjunct Assistant Professor, Department of Neurology, Epilepsy Division, New York University School of Medicine, New York City, NY
01/15/2013 - 06/30/2019 Associate Professor, Department of Neurology, Epilepsy Division, Medical College of Wisconsin, Milwaukee, WI 53226
07/01/2019 - Present Professor, Department of Neurology, Epilepsy Division, Medical College of Wisconsin, Milwaukee, WI 53226

ADMINISTRATIVE APPOINTMENTS:

01/01/2025 - Present Interim Chair, Neurology, Medical College of Wisconsin

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

01/01/2011 - 12/14/2012 Fellowship Associate Program Director, Neurology, Clinical Neurophysiology Fellowship, New York University School of Medicine, New York City, NY
07/01/2013 - 06/30/2022 Fellowship Program Director, Neurology, Clinical Neurophysiology Fellowship, Medical College of Wisconsin, Milwaukee, WI
06/15/2014 - 01/31/2025 Residency Program Director, Neurology, Neurology Residency, Medical College of Wisconsin, Milwaukee, WI
07/01/2016 - 06/30/2022 Fellowship Program Director, Neurology, Epilepsy Fellowship, Medical College of

Wisconsin, Milwaukee, WI
10/01/2020 - 01/01/2025 Vice Chair - Education, Neurology, Medical College of Wisconsin, Milwaukee, WI
07/01/2022 - Present Fellowship Associate Program Director, Neurology, Clinical Neurophysiology Fellowship, Medical College of Wisconsin, Milwaukee, WI
07/01/2022 - Present Fellowship Associate Program Director, Neurology, Epilepsy Fellowship, Medical College of Wisconsin, Milwaukee, WI

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:

03/2006 - 12/14/2012 Director of the Epilepsy Special Procedures Service, Neurology, Epilepsy, New York University Langone Medical Center, New York City, NY
01/2011 - 12/14/2012 Director of the Video EEG Laboratory, Neurology, Epilepsy, New York University Langone Medical Center, New York City, NY
01/14/2013 - Present Co-Director of the Epilepsy Program, Neurology, Epilepsy, Froedtert Hospital., Milwaukee, WI
07/01/2013 - 07/01/2014 Associate Vice Chair for Quality, Department of Neurology, Epilepsy Division, Froedtert Memorial Lutheran Hospital., Milwaukee, WI

HOSPITAL STAFF PRIVILEGES:

03/2006 - 12/14/2012 Attending Physician, Department of Neurology, Epilepsy Division, New York University Langone Medical Center, 530 1st Avenue, New York City, NY 10016
01/14/2013 - Present Attending Physician, Department of Neurology, Epilepsy Division, Froedtert Memorial Lutheran Hospital, 9200 W. Wisconsin Ave, Milwaukee, WI 53122

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
Neurology	04/01/2005	None
Clinical Neurophysiology	05/01/2007	None
Epilepsy	10/28/2013	None

AWARDS AND HONORS:

1993 Medical Scholars Summer Research Award, University of Wisconsin - Madison
1994 Hilldale Undergraduate Research Award, University of Wisconsin - Madison
1995 Delta Phi Alpha, German National Honor Society
1996 University Bookstore Academic Excellence Award for independent study/research achievement, University of Wisconsin - Madison
1996 Peter and Emily Lound Scholarship awarded based on leadership and service to the Medical Scholars Program, University of Wisconsin - Madison
2003 Travel Award for the International Geriatric Epilepsy Symposium
2010 - 2013 Junior Steward NINDS Benchmark Stewards Contributor, NINDS and the American Epilepsy Society
07/01/2013 - 06/30/2014 Highest Scoring Providers for Patient Satisfaction (FY 2014), Froedtert & The Medical College of Wisconsin
10/28/2013 - 06/16/2014 Faculty Scholars Program in Quality and Patient Safety, Froedtert Memorial Lutheran Hospital and the Medical College of Wisconsin.
2014 - 2020 Best Doctors in America: Neurology
06/05/2015 Distinguished Service Award presented by the Neurology Residents for teaching and programmatic development, Medical College of Wisconsin
07/01/2015 - 06/30/2016 Top 15 Highest Scoring Providers for Patient Satisfaction (FY 2016), Froedtert & The Medical College of Wisconsin
2015 - 2025 Top Doctors: Neurology, American Registry/Castle Connolly
04/16/2016 A. B. Baker Teacher Recognition National Honor Roll, American Academy of Neurology
06/03/2016 Special Recognition Award presented by the Neurology Residents for excellence in leadership, guidance, mentoring, and teaching, Medical College of Wisconsin
07/01/2016 - 06/30/2017 Outstanding Medical Student Teacher for 2016-2017, Medical College of Wisconsin
07/01/2016 - 06/30/2017 Patient Satisfaction Survey highest scoring providers (FY 2017), Froedtert & The

Medical College of Wisconsin
07/01/2017 - 06/30/2018 Top Patient Experience Award (FY 2018), Froedtert & The Medical College of Wisconsin
07/01/2017 - 06/30/2018 Outstanding Medical Student Teacher for 2017-2018, Medical College of Wisconsin
06/19/2020 Special Recognition Award presented by the Graduating Neurology Residents for providing excellence in leadership, guidance, mentoring and teaching, Medical College of Wisconsin
12/23/2020 Fellow, American Academy of Neurology
2021 Residency-Fellowship Program Director Recognition Award, American Academy of Neurology
06/17/2022 Distinguished Service Award presented by the Graduating Neurology Residents for providing continuous support and positive change for the residents and residency program, Medical College of Wisconsin
2022 - 2023 Milwaukee Top Doctors: Neurology
11/19/2024 Fellow, American Epilepsy Society

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2001 - 12/22/2020 American Academy of Neurology (Member)
2003 - 11/01/2024 American Epilepsy Society (Member)
12/23/2020 - Present American Academy of Neurology (Fellow)
09/23/2021 - Present Medical College of Wisconsin Society of Teaching Scholars (Member)
11/01/2024 - Present American Epilepsy Society (Fellow)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship
01/01/2009 - 12/31/2017 Contributing Editor. Epilepsy Currents
Editorial Board
06/01/2016 - 12/31/2017 Epilepsia-Open
Journal Review
Epilepsy & Behavior
Journal of Neurosciences in Rural Practice
Journal of Neural Transmission
PLOS One
Epilepsia
Journal of Neurology, Neurosurgery & Psychiatry
Human Brain Mapping

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

07/01/2014 - 06/30/2022 Chair, Neurophysiology Clinical Competency Committee, Medical College of Wisconsin
07/01/2014 - 01/31/2025 Chair, Neurology Program Evaluation Committee, Medical College of Wisconsin
07/01/2014 - 06/30/2022 Chair, Neurophysiology Program Evaluation Committee, Medical College of Wisconsin
07/01/2014 - 01/31/2025 Chair, Neurology Clinical Competency Committee, Medical College of Wisconsin
07/01/2015 - 06/30/2017 Chair, Annual Institutional Review Committee, Medical College of Wisconsin Affiliated Hospitals
07/01/2016 - 06/30/2022 Chair, Epilepsy Clinical Competency Committee, Medical College of Wisconsin
07/01/2016 - 06/30/2022 Chair, Epilepsy Program Evaluation Committee, Medical College of Wisconsin
11/01/2018 - 01/01/2020 Chair, New Innovations Advisory Committee, Medical College of Wisconsin Affiliated Hospitals
11/01/2022 - Present Chair, GMEC: Education Subcommittee, Medical College of Wisconsin Affiliated Hospitals

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

10/01/2012 - 12/31/2015 Vice Chair, Q-PULSE Committee, American Epilepsy Society
01/01/2016 - 12/31/2018 Chair, Q-PULSE Committee, American Epilepsy Society
11/22/2019 - 06/30/2021 Working Group Member, Epilepsy Milestones 2.0 Working Group, Accreditation Council for Graduate Medical Education (ACGME)

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title: Flourishing and Crisis: Constructing Practical Wisdom Through a Caring Community of Graduate Medical Education Leaders
Source: Kern National Network
Role & Effort: Co-Investigator: 0.05 FTE
PI: Kathlyn Fletcher, MD
Dates: 09/01/2024 - 08/30/2025
Direct Funds: \$94,700

Non-Peer Review

Title: A First-in-human Study of Inhibitory Interneurons (NRTX-1001) in Drug-Resistant Unilateral Mesial Temporal Lobe Epilepsy
Source: Neurona Therapeutics
Role & Effort: Sub-investigator
PI: Sean Lew, MD
Dates: 12/01/2022 - Present

Prior

Peer Review

Title: Neural Basis of Endogenous Potentials in Humans
Source: NIH
Role & Effort: Co-Investigator on NYU Subcontract
PI: Eric Halgren, PhD with Thomas Thesen, DPhil (NYU Subcontract)
Dates: 05/01/2007 - 04/30/2012
Direct Funds: \$659,335 (NYU Subcontract)

Title: Defining the epileptogenic zone in Tuberous Sclerosis Complex: microelectrode recordings in children with intractable epilepsy and TSC
Source: Tuberous Sclerosis Alliance
Role & Effort: Co-Investigator
PI: Howard Weiner, MD
Dates: 07/01/2008 - 06/30/2011
Direct Funds: \$135,531

Title: Detection of epileptogenic malformations with surface-based MRI morphometry
Source: Epilepsy Foundation
Role & Effort: Principal Investigator
Dates: 01/01/2010 - 12/31/2010
Direct Funds: \$49,816

Title: Imaging of Language in the Preoperative Evaluation of Epilepsy
Source: NIH

Role & Effort:	Co-Investigator
PI:	Carrie McDonald, PhD with Thomas Thesen, DPhil (NYU Subcontract)
Dates:	03/01/2010 - 02/29/2015
Direct Funds:	\$95,283 (NYU Subcontract)
Title:	Cortical Localization in Temporal Lobe Epilepsy
Source:	NIH
Role & Effort:	Subcontract (NYU) Principal Investigator
PI:	Marla Hamberger, PhD with Chad Carlson, MD (NYU Subcontract)
Dates:	09/01/2010 - 06/30/2015
Direct Funds:	\$108,526 (NYU Subcontract)
Title:	Topographic mapping of a hierarchy of temporal receptive windows using natural stimuli
Source:	NIH
Role & Effort:	Co-Investigator
PI:	Uri Hasson, PhD with Thomas Thesen, DPhil (NYU Subcontract)
Dates:	07/07/2011 - 03/31/2016
Direct Funds:	\$1,785,700 (Total funds- NYU subcontract total included)

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

- Chad Carlson, Magnetoencephalographic Lateralization and Localization of, Annual Meeting of the Eastern Association of Electroencephalographer's, New York City, NY, 02/2007
- Chad Carlson, Magnetoencephalography Clinical Case Conference, International Users' Group Meeting for 4-D Neuroimaging, Denver, CO, 06/2007
- Chad Carlson, Epilepsy Roundtable Panel Discussion, International Users' Group Meeting for 4-D Neuroimaging, Denver, CO, 06/2007
- Chad Carlson, Data Analysis Roundtable Discussion, International Users' Group Meeting for 4-D Neuroimaging, Denver, CO, 06/2007
- Chad Carlson, Future Directions in Epilepsy Research, 24th Conferencia de Epilepsia del Caribe, Dorado, Puerto Rico, 11/2007
- Chad Carlson, Advances in Neuroimaging and Epilepsy, 24th Conferencia de Epilepsia del Caribe, Dorado, Puerto Rico, 11/2007
- Chad Carlson, Intracranial EEG, CAMELICE (Capitulo Mexicano de la Liga Internacional Contra la Epilepsia), Durango, Mexico, 09/2012
- Chad Carlson, Navigating Your Career: Transitioning from a Clinical Research Career to an Educational and Clinical Focused Career, 69th Annual meeting of the American Academy of Neurology, Boston, MA, 04/23/2017
- Chad Carlson, Navigating Your Career: Finding Your Niche in Neurology: Perspectives from an Epileptologist and Educator, 69th Annual meeting of the American Academy of Neurology, Boston, MA, 04/23/2017
- Chad Carlson, Navigating Your Career: Transitioning from a Clinical Research Career to an Educational and Clinical Focused Career, 70th Annual meeting of the American Academy of Neurology, Los Angeles, CA, 04/23/2018
- Chad Carlson, Navigating Your Career: Finding Your Niche in Neurology: Perspectives from an Epileptologist and Educator, 70th Annual meeting of the American Academy of Neurology, Los Angeles, CA, 04/23/2018
- Chad Carlson, Length of Stay as a Measure of Quality in the Safety and Quality Special Interest Group (SIG),

- 72nd Annual Meeting of the American Epilepsy Society, New Orleans, LA, 12/01/2018
- Chad Carlson, Approaches to Treatment Resistant Epilepsy in 2020, International Workshop on Epilepsy, Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi, India, 02/28/2020 - 03/01/2020
- Chad Carlson, Intracranial EEG: Where We Were and Where We Are, International Workshop on Epilepsy, Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi, India, 02/28/2020 - 03/01/2020
- Chad Carlson, Deepak Gill, JMK Murth, Vinod Puri, Panel Discussion: Everything Under the Sun on Epilepsy Management, International Workshop on Epilepsy, Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi, India, 02/28/2020 - 03/01/2020
- Chad Carlson, Deepak Gill, Atampreet Singh, Dinesh Nayak, Shymal Jaiswal, SA Jabeen, Swapan Gupta, Parul Dubey, K Radhakrishnan, JMK Murthy, Video Session: Unusual Semiology, Unusual and Difficult to Treat Cases, International Workshop on Epilepsy, Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi, India, 02/28/2020 - 03/01/2020
- Chad Carlson, Marijuana, Cannabidiol, and Epilepsy Treatment, International Workshop on Epilepsy, Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi, India, 02/28/2020 - 03/01/2020
- Chad Carlson, Predicting Outcomes from Resective Epilepsy Surgery: The Epilepsy Surgery Grading Scale, International Workshop on Epilepsy, Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi, India, 02/28/2020 - 03/01/2020
- Chad Carlson, Teaching Methodologies in Neurology and Epilepsy, Dr. Bhuwan Garg Oration for the International Workshop on Epilepsy, Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi, India, 02/28/2020 - 03/01/2020
- Chad Carlson, Vikram Rao, Kathryn Davis, Eric Anderson, Sara Inati, Michael Doherty, Peter Forgacs, Thomas Wychowski, Patricia Dugan, Panel Discussion: Clinical Careers Pathways, 74th Annual Meeting of the American Epilepsy Society Meeting, Virtual Meeting (in person meeting in Seattle, WA cancelled due to COVID19), 12/07/2020
- Ashlie Schaffner and Chad Carlson, Building a Successful Program Director and Program Coordinator Team, American Academy of Neurology Annual Meeting: Education Coordinators Section, Seattle, WA, 04/04/2022
- Ashlie Schaffner and Chad Carlson, Using Technology to Enhance Your Program, American Academy of Neurology Annual Meeting: Education Coordinators Section, Boston, MA, 04/24/2023
- Ashlie Schaffner and Chad Carlson, Effectively Using Evaluation Data, American Academy of Neurology Annual Meeting: Education Coordinators Section, Boston, MA, 04/25/2023

National

- Chad Carlson, Future Directions in Epilepsy Research, Ortho-McNeil Training Session, New York City, NY, 11/2006
- Chad Carlson, Ask the Experts Panelist Session, Ortho-McNeil Training Session, New York City, NY, 11/2007
- Chad Carlson, Future Directions in Epilepsy Research, Ortho-McNeil Training Session, New York City, NY, 11/2007
- Chad Carlson, The Cellular Basis of Magnetoencephalography, 61st Annual Meeting of the American Epilepsy Society, Philadelphia, PA, 12/2007
- Chad Carlson, Future Directions in Epilepsy Research, Ortho-McNeil Training Session, New York City, NY, 04/2008
- Chad Carlson, Ask the Experts Panel Session, Ortho-McNeil Training Session, New York City, NY, 04/2008
- Chad Carlson, Development of an Epilepsy Surgery Grading Scale, Epilepsy Surgery Grading Scale Consortium Meeting, New York City, NY, 07/2008
- Chad Carlson, Ask the Expert Question and Answer Session, Pfizer Preceptorship, New York City, NY, 12/2008
- Chad Carlson, Epilepsy Questions and Answers, Eisai Preceptorship, New York City, NY, 08/2010
- Chad Carlson, New Frontiers in Epilepsy, CareFusion All Employee Meeting, Middleton, WI, 02/2011
- Chad Carlson, Ask the Professor: Questions and Answers, Upsher-Smith Preceptorship, New York City, NY, 08/2012
- Chad Carlson, Epilepsy 101: Pathophysiology, Epileptogenesis, and Diagnosis, Upsher-Smith Preceptorship, New York City, NY, 08/2012

Chad Carlson, Stratifying Candidates for Resective Epilepsy Surgery: Predictive Factors for Seizure Freedom, New York University Neurology Grand Rounds, New York, NY, 02/11/2014
Chad Carlson, The Epilepsy Surgery Grading Scale, Yale Comprehensive Epilepsy Center Monday Afternoon Coffee Seminar on Epilepsy Research, New Haven, CT, 02/04/2019
Chad Carlson (Moderator), Thomas Thesen, Daniel Novak, Vincent VanBuren, Adam Rodman, Integration of AI into Healthcare Education, IHER, Virtual (Milwaukee, WI), 09/18/2024

Regional

Chad Carlson, Epilepsy Evaluation in 2005: Gateways to Seizure Freedom, University of Iowa Hospitals and Clinics Neurology Department Lecture Series, Iowa City, IA, 06/2005
Chad Carlson, Update on MEG Technology and Clinical Application, New York University Neurology Grand Rounds, New York City, NY, 04/2008
Chad Carlson, Where Are We Going? New Therapies in Epilepsy Panel Discussion, FACES 2009 Epilepsy Conference, New York City, NY, 10/2009
Chad Carlson, Am I a candidate for Epilepsy Surgery?, FACES 2009 Epilepsy Conference, New York City, NY, 10/2009
Chad Carlson, Magnetoencephalography in Pediatric Epilepsy, New York University Pediatric Neurology Grand Rounds, New York City, NY, 01/2010
Chad Carlson, Stratifying Candidates for Resective Epilepsy Surgery: Predictive Factors for Seizure Freedom, Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 07/2012
Chad Carlson, Epilepsy Surgery from a Multidisciplinary Perspective, Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 06/2013
Chad Carlson, Magnetoencephalography: Translating Neuroscience to the Clinic and Back Again, 2014 Annual Milwaukee Chapter for the Society for Neurosciences Meeting, Milwaukee, WI, 04/29/2014
Chad Carlson and Ann Helms, Medical Education, Evaluations, and Feedback for Residents, Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 08/08/2014
Chad Carlson, Intracranial EEG and Epilepsy Surgery, Medical College of Wisconsin Neurosurgery Grand Rounds, Milwaukee, WI, 08/21/2015
Chad Carlson, Marijuana for the Treatment of Epilepsy, Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 12/04/2015
Chad Carlson, Evaluating Trainees Utilizing Entrustable Professional Activities., Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 02/05/2016
Chad Carlson, Approaches to Treatment Resistant Epilepsy 2016, University of Iowa Hospitals and Clinics Neurology Grand Rounds, Iowa City, IA, 09/13/2016
Chad Carlson, You Never Forget Your First? Impact of Interview Order on the Neurology Residency Rank List., Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 01/26/2018
Chad Carlson, Approaches to Treatment Resistant Epilepsy in 2018, Medical College of Wisconsin Neurosurgery Grand Rounds, Milwaukee, WI, 02/23/2018
Chad Carlson, Autoimmune Mechanisms in Epilepsy, Heart of Wisconsin Epilepsy Foundation Conference, Marshfield Hospital and Clinics; Marshfield, WI, 05/18/2018
Chad Carlson, New Treatment Options for Treatment Resistant Epilepsy, Wisconsin Neurological Society, Osthoff Resort; Elkhart Lake, WI, 10/19/2018
Chad Carlson, Teaching Methodologies in Neurology and Epilepsy, Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 04/10/2020
Chad Carlson, Evaluations in Medical Education: Focus on Residency, Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 05/28/2021
Chad Carlson, Epilepsy and Seizures: An Overview, Wisconsin Department of Corrections: ACP Meeting, Virtual, 01/07/2022
Chad Carlson and Avantika Singh, Epilepsy Across the Lifespan, Neurology 50th Anniversary CME, Milwaukee, WI, 09/21/2024
Chad Carlson, Driving Restrictions and Epilepsy, Medical College of Wisconsin Neurology Grand Rounds, Milwaukee, WI, 10/25/2024

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

International

Pietro Paolo R, Carlson C, Compton T, Direct Interaction between HCMV Glycoprotein B and Cellular

Annexin II, Keystone Symposia on Molecular and Cellular Biology, Keystone, CO, 02/1996
Compton T, Carlson C, Krygiel KA, Britt WJ, Characterization of a Soluble Form of Glycoprotein B (gpUL55) of Human Cytomegalovirus, 19th International Herpesvirus Workshop, Vancouver, British Columbia, Canada, 07/30/2005 - 08/05/2005
Thesen T, Blumberg MA, Spence C, Carlson C, Cash SS, Doyle W, Kuzniecky R, Ulbert I, Devinsky O, Halgren E, The effects of task and attention on visual-tactile processing: Human intracranial data, 9th International Multisensory Research Forum, Hamburg, Germany, 07/16/2008 - 07/19/2008

National

Bollo RJ, Carlson C, Schevon C, Wisoff JH, Devinsky O, Weiner HL., Staged resection and extraoperative functional mapping in children with hemispheric tumors: surgical strategy and outcome, American Association of Neurological Surgeons, Pediatric Section, Point Clear, AL, 12/2005
Carlson C, Weiner HL, Ridgway EB, Zaroff C, Miles D, LaJoie J, Devinsky O, Multi-Staged Epilepsy Surgery in Multifocal Tuberos Sclerosis Complex, 58th Annual Meeting of the American Academy of Neurology, San Diego, CA, 04/01/2006 - 04/08/2006
Schevon C, Carlson C, Zaroff C, Weiner HL, Language Lateralization and Localization in Children Utilizing Direct Neurostimulation and the WADA, 58th Annual Meeting of the American Academy of Neurology, San Diego, CA, 04/01/2006 - 04/08/2006
Bender HA, Whitman LA, Carlson C, Morrison CM, MacAllister WS, Weinfeld J, Rodriguez-Rivera M, Vazquez B, Barr WB, The convergent validity of the intracarotid amobarbital procedure in Spanish-speaking surgical candidates, 63rd Annual Meeting of the American Academy of Neurology, Honolulu, HI, 04/09/2011 - 04/16/2011
Carlson C, DuBois J, Thompson K, Chandhoke S, Tang C, Marcuse L, Kuzniecky R, Devinsky O, Thesen T, Increased Thalamic Volume in Idiopathic Generalized Epilepsy, 63rd Annual Meeting of the American Academy of Neurology, Honolulu, HI, 04/09/2011 - 04/16/2011
Ludvig N, Tang HM, Baptiste SL, Medveczky G, French JA, Devinsky O, Carlson C, Kuzniecky RI, Periodic Neocortical Muscimol Delivery Via the Subdural Pharmacotherapy Device Provides Complete Seizure Prevention Without the Induction of Tolerance in Nonhuman Primates, 65th Annual Meeting of the American Epilepsy Society, Baltimore, MD, 12/02/2011 - 12/06/2011

COMMITTEE SERVICE:

Medical College of Wisconsin

06/14/2014 - Present Graduate Medical Education Committee, MCWAH
07/01/2014 - Present Clinical Competency Committee, Adult Neurology Residency, Neurology, Medical College of Wisconsin
07/01/2014 - Present Program Evaluation Committee, Adult Neurology Residency, Neurology, Medical College of Wisconsin
10/06/2014 - Present Annual Institutional Review, MCWAH
07/28/2016 - 01/01/2025 Grand Rounds Planning Committee, Neurology, Medical College of Wisconsin
10/01/2018 - Present Mentorship Committee, Neurology, Medical College of Wisconsin
11/01/2018 - Present Education Subcommittee, Graduate Medical Education Committee, MCWAH
07/01/2022 - Present Clinical Competency Committee, Clinical Neurophysiology Fellowship, Neurology, Medical College of Wisconsin
07/01/2022 - Present Program Evaluation Committee, Epilepsy Fellowship, Neurology, Medical College of Wisconsin
07/01/2022 - Present Clinical Competency Committee, Epilepsy Fellowship, Neurology, Medical College of Wisconsin
07/01/2022 - Present Program Evaluation Committee, Clinical Neurophysiology Fellowship, Neurology, Medical College of Wisconsin
11/01/2022 - Present Program Director Retreat Subcommittee, Graduate Medical Education Committee, MCWAH

Hospital

2002 - 2004 Departmental Representative, Utilization and Review Committee, Department of Neurology, University of Iowa Hospitals and Clinics
2008 - 12/14/2012 Co-Chair, Epilepsy Services Committee, Epilepsy Division, Department of Neurology,

New York University Langone Medical Center
2008 - 12/14/2012 Chair, Video-EEG Laboratory Information Technology Committee, Epilepsy Division,
Department of Neurology, New York University Langone Medical Center
10/01/2013 - 07/01/2014 Clinical Operations Committee, Neurology, Froedtert Hospital
11/01/2013 - 05/01/2014 Clinical Practice Optimization, Neurology, Froedtert Hospital
01/01/2019 - 01/01/2021 Neurosciences Clinic Operations Steering Committee, Neurology, Froedtert
Hospital

MCW TEACHING ACTIVITIES:

Medical Student Education

10/01/2013 Lecture: Epilepsy and Seizures
07/01/2014 - Present Medical student teaching in EMU for 1-4 hours on Thursdays when on service (1-2 weeks per month).
07/01/2014 - 06/30/2017 Weekly medical student preceptorship either in clinic supervision or during Thursday epilepsy rotation for medical students.
02/09/2017 Clinical Educator Pathway Lecture on Evaluation Methods in Graduate Medical Education (3 hours)
03/03/2017 M2 Neurology/Psychiatry Course (3 hours): Epilepsy, Anti-Epileptic Drugs, and Cases
03/27/2017 Student Interest Group Neurology: Epilepsy, EEG, Future of Technology in Neurology
11/13/2017 Video Career Discussion: Recorded session for medical students to get an introduction to the fields of Neurology and Epileptology.
11/14/2017 Student Interest Group in Neurology (2 Hours): Career information on Neurology informal discussion followed by panel discussion with additional faculty and residents.
03/02/2018 M2 Neurology/Psychiatry Course (3 hours): Epilepsy, Anti-Epileptic Drugs, and Cases
03/29/2018 Clinical Educator Pathway Lecture Dr. Ann Helms on "Designing an Education Research Project.". (2 Hours)
03/12/2019 Informal question and answer setting for M3 students interested in Neurology to prepare for the Match and M4 rotation choices.
03/19/2019 SIGN Lecture: Considering A Career in Neurology
04/08/2020 SIGN Lecture: Approaches to Treatment Resistant Epilepsy
03/16/2023 MSTP Residency Selection Panel
06/20/2023 (1.5 Hours): Residency Faculty Panel for M4s - Summer Intersession
06/25/2024 Medical Student Intercession Panel: (1.5 hours) - Residency Preparation

Resident and Fellow Education

01/14/2013 - Present Teaching on service: 1-4 hours/day on service 1-2 weeks per month
07/11/2013 Lecture: Technical Aspects of EEG for the Clinical Neurophysiology Didactic Lecture Series
07/11/2013 Lecture: EEG Montages for the Clinical Neurophysiology Didactic Lecture Series
08/22/2013 Lecture: Approach to the First Seizure for the Clinical Neurophysiology Didactic Lecture Series
10/03/2013 Lecture: Intracranial EEG and Epilepsy Surgery for the Clinical Neurophysiology Didactic Lecture Series
03/12/2014 Lecture: Quality Improvement Projects - How and Why?
06/30/2014 MCWAH Housestaff Orientation Small Group Sessions
07/25/2014 Lecture: Introduction to Patient Safety and Quality Part 2
08/01/2014 - 06/30/2015 15 part lecture series on neuroanatomy. Curriculum designed and prepared by me. All lectures delivered by me.
09/25/2014 Lecture: Approach to Research Projects
10/06/2014 Lecture: Introduction to EEG
03/15/2015 Academic Half Day (3 Hours): Effective Analysis and Presentation of Research Data
03/20/2015 Academic Half Day (3 Hours): Professionalism & Physician Burn-out and Using Microsoft Tools in Research Preparation and Presentation.
07/01/2015 - 06/30/2016 Academic Half Day: 15 part lecture series on neuroanatomy. Curriculum designed and prepared by me.
09/04/2015 Academic Half Day session (3 Hours): Patient Safety and Quality Improvement. Introduction to concepts and methods and a mock root cause analysis.

10/30/2015 Academic Half Day (1 Hour): Neurology Clinical Case Review

12/11/2015 Academic Half Day (1 Hour): Patient Safety and Quality Improvement - the PDCA cycle

02/05/2016 Academic Half Day (1 Hour): Patient safety and quality improvement project for outpatient epilepsy care.

04/08/2016 Academic Half Day (3 Hours): Epilepsy classification and epilepsy syndromes.

04/29/2016 Academic Half Day (2 Hours): Evaluation of the first seizure.

05/06/2016 Academic Half Day (3 Hours): Utilization of types of EEG and an interactive EEG skills primer.

05/20/2016 Academic Half Day (1 Hour): Neuroimaging Case Review

06/30/2016 MCWAH Housestaff Orientation Small Group Sessions

07/01/2016 - 06/30/2017 Academic Half Day: 15 part lecture series on neuroanatomy. Curriculum designed and prepared by me.

07/22/2016 Academic Half Day (2 Hours): Professionalism & Physician Burn-out

09/09/2016 Academic Half Day (3 Hours): Introduction to Scholarly Activity and Practical Tips for Research (includes spreadsheet tutorial)

09/23/2016 Academic Half Day (3 Hours): Patient Safety and Quality Improvement (Introduction and Fundamental Concepts and Methods)

03/10/2017 Academic Half Day (1.5 Hours): Concussion Biomarkers - A Journal Club and Focused Discussion of the Literature

03/24/2017 Academic Half Day (1 Hour): Practical Epilepsy Management - Case Based Discussion of Infantile Spasms

03/31/2017 Academic Half Day (2 Hour): Practical Epilepsy Management - Case Based Discussion of Focal Epilepsy and Juvenile Myoclonic Epilepsy (part 1)

04/28/2017 Academic Half Day (2 Hours): Epilepsy and EEG Case Review

06/02/2017 Neurology Intern Didactic (2 Hours): The Neurological Examination

06/09/2017 Neurology Intern Didactic (1 Hour): Pursuing Scholarship During Residency - Practical Concepts

06/26/2017 Neurology Intern Didactic (2 Hours): Your Role as a Learner and as a Teacher in Neurology: Theoretical Concepts and Practical Pearls

06/26/2017 New Intern Didactic (2 Hours): Overview of the Department of Neurology & The Neurological Examination

06/30/2017 MCWAH Housestaff Orientation Small Group Sessions

07/01/2017 - 06/30/2018 Academic Half Day: 15 part lecture series on neuroanatomy. Curriculum designed and prepared by me.

08/11/2017 Academic Half Day (1 Hour): Case Discussion on Peripheral Neuroanatomy & The Brachial Plexus

09/08/2017 Academic Half Day (1 Hour): Root Cause Analysis

02/02/2018 Academic Half Day (3 Hours): Psychogenic Non-Epileptic Events: Overview, Pathophysiology, Counseling, and Treatment.

02/23/2018 Academic Half Day (1 Hour): Patient Safety and Quality Improvement - Value, Lean, Six Sigma, and Choosing Wisely in Neurology.

06/01/2018 Neurology Intern Didactic (2 Hours): Approaches to Scholarly and Patient Safety/Quality Improvement Projects.

06/08/2018 Academic Half Day (2 Hours): Interdisciplinary Lecture with Drs. Ann Helms, Karen Carlson, and Wendy Peltier on "The Last Visit". Focused on patient and provider needs at the end of care with terminal diagnoses.

06/22/2018 Neurology Intern Didactic (3 Hours): Being a Teacher and a Student. Strategies for teaching what you know while expanding what you know while in training.

08/10/2018 Academic Half Day (1 Hour): Professionalism in Medicine

01/30/2019 Internal Medicine Lecture (45 Minutes): Seizures

06/07/2019 Neurology Intern Didactic (2 Hours): Teaching and Learning as a Resident

07/05/2019 Academic Half Day (3 Hours): Professionalism, Orientation, and Welcome

06/02/2020 Neurology Intern Didactic (2 Hours): Introduction to Scholarly Projects and PSQI Projects

06/02/2020 Neurology Intern Didactic (2 Hours): A Review of the Neurologic Examination, Localization, and Documentation.

06/05/2020 Neurology Intern Didactic (3 Hours): Being a Teacher and a Student. Strategies for teaching what you know while expanding what you know while in training.

08/14/2020 Academic Half Day (1 Hour): Introduction to PSQI and Root Cause Analysis
09/18/2020 Academic Half Day (1.5 Hours): Physician Well Being and Burnout in Neurology
04/09/2021 Academic Half Day (2 Hours): Psychogenic non-epileptic events
06/01/2021 Neurology Intern Didactic (1.5 Hours): Introduction to Scholarship and PSQI Projects
06/01/2021 Neurology Intern Didactic (1.5 Hours): A Review of the Neurological Examination
07/16/2021 Academic Half Day (2 hours): Resident well-being and physician burnout.
09/02/2021 Neurophysiology Bootcamp (1.5 Hours): Case-Based Review of Neurophysiology in Clinical Practice - an Overview
09/03/2021 Academic Half Day (1.5 Hours): Do I Really Need to Know the Business of Neurology?
01/14/2022 Academic Half Day (1.5 Hours): Approach to the First Seizure
06/01/2022 Neurology Intern Didactic (2 Hours): The Neurological Examination
06/01/2022 Neurology Intern Didactic (2 Hours): Scholarly and PSQI Projects. How They Fit into Your Career and Managing Expectations.
06/01/2022 Neurology Intern Didactic (2 Hours): Introduction to Scholarly Projects and PSQI Projects
06/01/2022 Neurology Intern Didactic (2 Hours): The Neurological Examination
06/24/2022 Neurology Intern Didactic (2 Hours): Being a Teacher and a Student. Strategies for teaching what you know while expanding what you know while in training.
07/01/2022 Academic Half Day (1 Hour): Introduction and Curriculum Overview; Goals and Objectives
08/19/2022 Academic Half Day: (2 hours) - Patient Safety and Quality Improvement Concepts - an Introduction
09/02/2022 Health Psychology Lecture (Psychology Fellows): Psychogenic Non-Epileptic Events
09/06/2022 Neurophysiology Bootcamp (2 hours): Case Based Learning in Neurophysiology
09/23/2022 Academic Half Day: Physician Wellness and Burnout
09/23/2022 Neurophysiology Bootcamp (2 hours): Epilepsy and EEG; Practical Review
03/03/2023 Academic Half Day (2 hours): Ictal EEG
03/08/2023 Medicine Academic Half Day: Epilepsy for the Non-Neurologist
03/15/2023 Maternal Fetal Medicine: Epilepsy for the Non-Neurologist
04/07/2023 Academic Half Day: Patient Safety, Quality Improvement, and the Business of Medicine. Do I Really Have to Know This? Part 1
04/28/2023 Academic Half Day: Patient Safety, Quality Improvement, and the Business of Medicine. Do I Really Have to Know This? Part 2
06/23/2023 Neurology Intern Didactic (2 Hours): Becoming a Teacher While Being a Student
08/11/2023 Academic Half Day (2 Hours): Patient Safety and Quality Improvement - an Introduction and Overview
08/16/2023 Medicine Academic Half Day: The Neurological Examination
08/18/2023 Academic Half Day: Statistics for Physicians
08/18/2023 Academic Half Day (2 Hours): Do I Really Have to Think About the Business of Medicine?
08/23/2023 Medicine Academic Half Day: Seizures
09/05/2023 Neurophysiology Bootcamp (2 hours): Intro to Bootcamp and Neurophysiologic Testing - Case Based Discussion
09/06/2023 Neurophysiology Bootcamp (2.5 hours): Case Based Learning for EEG
09/21/2023 Neurophysiology Bootcamp (3 hours): EEG Practical Review and Summary
04/05/2024 Academic Half Day: The Business of Neurology with Dr. Ekokobe Fonkem
05/23/2024 MCWAH Chief Resident Symposium: Chief Resident Role - Panel Discussion
05/24/2024 Academic Half Day: The Business of Neurology with Dr. Ekokobe Fonkem
06/07/2024 Neurology Intern Didactic (1.5 Hours): Scholarly and Patient Safety/Quality Improvement Projects
06/07/2024 Neurology Intern Didactic (1.5 Hours): The Neurological Examination - A Review
06/14/2024 Neurology Intern Didactic (2 Hours): Becoming a Teacher While Being a Student
06/28/2024 MCWAH (2 hours): Professionalism Case Based Discussions
08/21/2024 Family Medicine Residency: Epilepsy for the Non-Neurologist
09/03/2024 Neurophysiology Bootcamp (2 hours): Welcome and Overview of Clinical Neurophysiology
09/04/2024 Neurophysiology Bootcamp (2 Hours): Case Based Learning of Neurophysiology
09/18/2024 Psychology Residency: Psychogenic Non-Epileptic Events
09/20/2024 Academic Half Day: Statistics for Neurologists
09/23/2024 Neurophysiology Bootcamp (3 Hours): EEG Summary and Review
10/04/2024 Academic Half Day (2 Hours): Introduction to Patient Safety and Quality Improvement

10/09/2024 Medicine Academic Half Day: The Neurological Examination
10/30/2024 Medicine Academic Half Day: Seizures
01/24/2025 Academic Half Day (2 hours): Do we really have to worry about the business of Neurology?

Postdoctoral Fellow Education

10/11/2023 Health Psychology Lecture (Psychology Fellows): Psychogenic Non-Epileptic Events

EXTRAMURAL TEACHING:

Medical Student Education

07/01/2006 - 12/14/2013 New York University School of Medicine, Teaching while on service: 1-4 hours/day. On service 7-11 months per year.

07/2006 - 06/2012 New York University School of Medicine, Clinical Neurosciences Medical Student Preceptorship: Bedside and Small Group Teaching 8-12 hours/week x4 weeks for each academic year

07/2013 - 12/14/2013 New York University School of Medicine, Clinical Neurosciences Medical Student Preceptorship: Bedside and Small Group Teaching 8-12 hours/week x4 weeks

Graduate Student Education

12/2010 New York University School of Medicine, Lecture: An Introduction to Intracranial EEG for the Clinical Neurophysiology Research Group Lab Meeting

Resident and Fellow Education

05/2006 New York University School of Medicine, Lecture: MEG for the Clinical Neurophysiology Didactic Lecture Series

07/01/2006 - 12/14/2013 New York University School of Medicine, Teaching while on service: 1-4 hours/day. On service 7-11 months per year.

07/2006 New York University School of Medicine, Lecture: Nerve Conduction Studies and Electromyography for the Neurology Resident Lecture Series

10/2006 New York University School of Medicine, Lecture: Cortical Mapping without Direct Cortical Stimulation for the Epilepsy Journal Club and Case Conference

11/2006 New York University School of Medicine, Lecture: Multi-Stage Epilepsy Surgery in Multifocal Tuberos Sclerosis Complex for the Epilepsy Journal Club and Case Conference

07/2007 New York University School of Medicine, Lecture: Technical Aspects of EEG for the Clinical Neurophysiology Didactic Lecture Series

10/2007 New York University School of Medicine, Lecture: To MEG or not to MEG? for the Epilepsy Journal Club and Case Conference

10/2007 New York University School of Medicine, Lecture: Proper documentation for epilepsy patients utilizing the integrated clinical information system (ICIS) for the Neurology Residents and Fellows

10/2007 New York University School of Medicine, Lecture: An Introduction to Magnetoencephalography for the Clinical Neurophysiology Didactic Lecture Series

01/2008 New York University School of Medicine, Lecture: Status Epilepticus for the Clinical Neurophysiology Didactic Lecture Series

02/2008 New York University School of Medicine, Lecture: Review of Technical Aspects of EEG for the Clinical Neurophysiology Review Series

10/2008 New York University School of Medicine, Lecture: Technical Aspects of EEG for the Clinical Neurophysiology Didactic Lecture Series

11/2008 New York University School of Medicine, Lecture: An Introduction to Magnetoencephalography for the Clinical Neurophysiology Didactic Lecture Series

01/2009 - 08/01/2011 New York University School of Medicine, Monthly Recurring Lecture: Neocortical Working Group Research Update

02/2009 New York University School of Medicine, Lecture: Review of Technical Aspects of EEG for the Clinical Neurophysiology Review Series

03/2009 New York University School of Medicine, Lecture: Status Epilepticus for the Clinical Neurophysiology Didactic Lecture Series

07/2009 New York University School of Medicine, Lecture: Neocortical Working Group Update for the Epilepsy Center Research Retreat

07/2009 New York University School of Medicine, Lecture: Corpus Callosotomy and Bilateral Intracranial

EEG Monitoring for the Epilepsy Journal Club and Case Conference
08/2009 New York University School of Medicine, Lecture: Electrode Montages and Localization for the Clinical Neurophysiology Didactic Lecture Series
08/2009 New York University School of Medicine, Lecture: Technical Aspects of EEG for the Clinical Neurophysiology Didactic Lecture Series
10/2009 New York University School of Medicine, Lecture: Epilepsy and the Evaluation of Operative Candidates for the Neurology Resident Lecture Series
12/2009 New York University School of Medicine, Lecture: Idiopathic Generalized Epilepsy for the Epilepsy Journal Club and Case Conference
02/2010 New York University School of Medicine, Lecture: Status Epilepticus for the Clinical Neurophysiology Didactic Lecture Series
05/2010 New York University School of Medicine, Lecture: Research Update: Neocortical Working Group for the Epilepsy Journal Club and Case Conference
08/2010 New York University School of Medicine, Lecture: Electrode Montages and Localization for the Clinical Neurophysiology Didactic Lecture Series
10/2010 New York University School of Medicine, Lecture: Idiopathic Generalized Epilepsy: An Update on Neuroimaging Findings in IGE for the Epilepsy Journal Club and Case Conference
12/2010 New York University School of Medicine, Lecture: Technical Aspects of EEG for the Clinical Neurophysiology Didactic Lecture Series
08/01/2011 - 12/14/2013 New York University School of Medicine, Monthly Recurring Lecture: Classification Working Group Research Update
08/2011 New York University School of Medicine, Lecture: Technical Aspects of EEG for the Clinical Neurophysiology Didactic Lecture Series
01/2012 New York University School of Medicine, Lecture: Classification Working Group Update: ESGS, ACES, eNUMB, TCS, SB -- What these letter means for you for the Epilepsy Journal Club and Case Conference
02/2012 New York University School of Medicine, Lecture: Review of Technical Aspects of EEG for the Clinical Neurophysiology Review Series
02/2012 New York University School of Medicine, Lecture: EEG Montages for the Clinical Neurophysiology Didactic Lecture Series
03/2012 New York University School of Medicine, Lecture: Epilepsy Surgery for the Clinical Neurophysiology Didactic Lecture Series
05/2012 New York University School of Medicine, Lecture: Predictive Factors in Epilepsy Surgery: A Systematic Literature Review for the Epilepsy Journal Club and Case Conference
08/2012 New York University School of Medicine, Lecture: Technical Aspects of EEG for the Clinical Neurophysiology Didactic Lecture Series
07/09/2014 Medical College of Wisconsin, Lecture: Introduction to Patient Safety and Quality

Postdoctoral Fellow Education

09/2007 New York University School of Medicine, Lecture: An Introduction to Electroencephalography for the Neuropsychology Lecture Series
12/2008 New York University School of Medicine, Lecture: An Introduction to Electroencephalography for the Neuropsychology Lecture Series
12/2009 New York University School of Medicine, Lecture: An Introduction to Electroencephalography for the Neuropsychology Lecture Series
10/2010 New York University School of Medicine, Lecture: An Introduction to Electroencephalography for the Neuropsychology Lecture Series
09/2011 New York University School of Medicine, Lecture: An Introduction to Electroencephalography for the Neuropsychology Lecture Series
01/2012 New York University School of Medicine, Lecture: The Neurological Examination for the Neuropsychology Lecture Series
10/2012 New York University School of Medicine, Lecture: An Introduction to Electroencephalography for the Neuropsychology Lecture Series

Continuing Medical Education

07/2009 New York University School of Medicine, Lecture: Intracranial EEG an Introduction to Basic Principles for the EEG Technician Training Session

02/2010 New York University School of Medicine, Lecture: Intracranial EEG and Electrode Montages for the EEG Technician Training Session

10/2010 New York University School of Medicine, Lecture: Intracranial EEG and Electrode Montages 2 for the EEG Technician Training Session

11/2010 New York University School of Medicine, Lecture: Introduction to the Epilepsy Monitoring Service for the Tisch Neurosciences Nursing Unit

11/2011 New York University School of Medicine, Lecture: EEG Montages for the EEG Technician Training Session

02/2012 New York University School of Medicine, Lecture: Documentation in the Medical Record and on the EEG: A Technician Primer for the EEG Technician Training Session

07/2012 New York University School of Medicine, Lecture: Utility of Pulse Oximetry in the Epilepsy Monitoring Unit for the EEG Technician Training Session

08/2012 New York University School of Medicine, Lecture: Epilepsy 101: Basic Principles of Epilepsy for EEG Technicians for the EEG Technician Training Session

10/2012 New York University School of Medicine, Lecture: Epilepsy 101: Basic Principles of Epilepsy for EEG Technicians Part 2 for the EEG Technician Training Session

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

12/01/2014 - 06/30/2017 Sarah Carpenter, Pathways Advisor: Quality Improvement and Patient Safety, Medical College of Wisconsin, Completed her collaborative project with Dr. Chelimsky on a project improving patient education in autonomic dysfunction

11/20/2015 - 06/30/2017 Christopher Koo, Career Advising and Neurology Shadowing, Medical College of Wisconsin, Matched in Anesthesiology to Beth Israel Deaconess Medical Center

03/01/2017 - 06/30/2018 Patrick Budny, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched in Diagnostic Radiology to MCW

03/01/2017 - 06/30/2018 Anthony Declusin, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched in Neurology to the University of Colorado

06/29/2017 - 06/30/2018 Arjun Athreya, Career and Residency Guidance, Medical College of Wisconsin, Matched in Neurology to Emory University

01/01/2018 - 06/30/2019 Jessica Yi, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched in Neurology to Thomas Jefferson University

07/01/2018 - 06/30/2019 Lindsey Krawchuk, Career and Residency Guidance, Medical College of Wisconsin, Matched in Neurology to the University of North Carolina

08/26/2018 - 06/30/2022 Britta Bureau, Career and Residency Guidance, Medical College of Wisconsin, Matched to Medical College of Wisconsin Neurology

03/01/2019 - 06/30/2020 Tegan Ake, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched in Neurology to the University of Utah

03/01/2019 - 06/30/2020 Michael Mendoza, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched in Neurology to MCW

09/2019 - 12/2020 Sophia Musacchio, Clinical Apprenticeship, Medical College of Wisconsin, Successful participation in the Clinical Apprenticeship Program

11/25/2019 - 06/30/2022 Alexandra Roman, Career and Residency Guidance, Medical College of Wisconsin, Matched in Neurology at the University of Miami

02/01/2020 - 06/30/2021 John LeClaire, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched to Neurology at Vanderbilt

07/12/2021 - 05/01/2023 Paul Beinhoff, Education Research Mentor, Medical College of Wisconsin, Successful publication of manuscript in Cureus: No Geographic Distribution Change Among Residency Applicants in the Neurology Match During COVID-19

07/12/2021 - 05/01/2023 Nabil Atlassy, Education Research Mentor, Medical College of Wisconsin, Successful publication of manuscript in Cureus: No Geographic Distribution Change Among Residency Applicants in the Neurology Match During COVID-19

12/01/2021 - 05/01/2024 Nihal Voruganti, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched to Brown for Neurology

12/01/2021 - 03/01/2022 Sophia Mussachio, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched to Internal Medicine at Dartmouth

12/01/2021 - 05/01/2023 Jesse Maguire, Clinical Advisor; Career and Residency Guidance, Medical College of Wisconsin, Matched in Neurology to the University of Texas - Southwestern

Clinical/Research Fellows

- 07/01/2014 - 06/30/2015 Natalia Dorland, MD, Research Mentor with Drs. Anderson and Raghavan: Evaluating infra-slow potentials in scalp EEG, Medical College of Wisconsin, Presented at the American Epilepsy Society
- 2014 - 07/01/2022 All Clinical Neurophysiology and Epilepsy fellows meet directly with me for career development as a result I mentor all fellows continually in this role., Career Development; Project Oversight. Program Director, Medical College of Wisconsin
- 07/01/2015 - 06/30/2017 Janki Lavingia, Research Mentor with Drs. Anderson and Raghavan: Evaluating infra-slow potentials in scalp EEG, Medical College of Wisconsin, Presented at the American Epilepsy Society
- 07/01/2016 - 06/30/2017 Aditya Vuppala, MD, Research Mentor with Drs. Raghavan and Anderson: Analyzing the value of MEG in patients with non-lesional MRI, Medical College of Wisconsin, Presented at the American Epilepsy Society
- 07/01/2017 - 06/30/2019 Patrick Bauer, MD, Research Mentor and Career Development: Develop an independent research project in preparation for submitting a training grant proposal (i.e. K-award), Medical College of Wisconsin, Transition to faculty role at MCW and identification of internal and external advisors for the project

Residents

- 07/01/2013 - 06/30/2015 Janki Lavingia, MD, Quality Improvement Mentor with Dr. Book: Standardization and improvement of the Neurology hand-off, Medical College of Wisconsin, Adopted as the standardized hand-off procedure
- 12/01/2013 - 06/30/2015 Pedro Oliveira, MD, Quality Improvement Mentor: Improved Access for post-ER visit epilepsy patients, Medical College of Wisconsin, Implemented plan into practice
- 07/01/2014 - 06/30/2015 Janki Lavingia, MD, Research Mentor with Drs. Anderson and Raghavan: Evaluating infra-slow potentials in scalp EEG, Medical College of Wisconsin, Presented at the American Epilepsy Society
- 07/01/2014 - 06/30/2016 Additya Vuppala, MD, Research Mentor with Drs. Raghavan and Anderson: Analyzing the value of MEG in patients with non-lesional MRI, Medical College of Wisconsin, Presented at the American Epilepsy Society
- 2014 - Present All Neurology residents work directly with me for career development, in particular the Chief Residents, as such I mentor all residents continually in this role., Career Development; Project Oversight. Program Director, Medical College of Wisconsin
- 07/01/2016 - 06/30/2018 Mohammad Kabir, MD, Research/Education Mentor: Develop an electronic teaching resource for anti-epileptic drug utilization and pharmacology., Medical College of Wisconsin, Completed teaching materials and implementation into an electronic teaching resource
- 07/01/2017 - 06/30/2018 Mohammad Kabir, MD, Quality Improvement/Education Mentor: Improve counseling and long term care for patients with psychogenic non-epileptic events diagnosed outside of the epilepsy monitoring unit, Medical College of Wisconsin, New protocol established with the Epilepsy Coordinator, classroom teaching developed and delivered February 2018
- 07/01/2017 - 06/30/2018 Brandon Strawn, DO, Research/Education Mentor: Develop a curriculum element for EMG/NCV testing for deploying as part of the electronic curriculum development process., Medical College of Wisconsin, Completed lecture materials
- 07/01/2018 - 06/30/2021 Vishal Pandya, MD, Career Mentor: Epilepsy, Medical College of Wisconsin, Epilepsy Fellowship Match - Johns Hopkins
- 07/01/2018 - 06/30/2020 Sam Hooshmand, DO, Career Mentor: Neuroimmunology, Medical College of Wisconsin, Completing fellowship in Neuroimmunology at MCW and joining the faculty at MCW
- 07/01/2018 - 06/30/2021 Ahmad Sawalha, MD, Career Mentor: Epilepsy, Medical College of Wisconsin, Epilepsy Fellowship Match - Mayo
- 07/01/2018 - 06/30/2021 Ruchi Dhyani, MD, Career Mentor: Epilepsy, Medical College of Wisconsin, Epilepsy Fellowship Match - UPMC
- 07/01/2019 - 09/15/2022 Vishal Pandya, MD, Research Mentor: Anti-seizure medication usage prior to surgical evaluation., Medical College of Wisconsin, Successful presentation of an abstract at the American Epilepsy Society and publication in Epilepsy and Behavior Reports.

07/01/2019 - 06/30/2022 Darren DuGas, MD, Career Mentor: Epilepsy, Medical College of Wisconsin, Epilepsy Fellowship Match - Yale

03/01/2021 - 07/01/2021 Vishal Pandya, MD, Research Mentor: Review article on implantable devices for treatment resistant focal epilepsy, Medical College of Wisconsin, Published in Practical Neurology 2021

Faculty

07/01/2019 - 11/21/2021 Serena Thompson, MD, PhD, Career Development and Research Mentor, Medical College of Wisconsin, Mentored on research project development. Relocated to Minnesota.

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Undergraduate Students

2006 - 2009 Jeff Stout, Direct Supervisor and Research Mentor: Magnetoencephalography, New York University School of Medicine, Went on to receive a doctoral degree and is currently at the National Institutes of Health

2007 - 2010 Amy Trongnetrpunya, Direct Supervisor and Research Mentor: Magnetoencephalography, New York University School of Medicine, Went on to complete doctoral work and currently works in industry

2009 - 2011 Jonathan DuBois, Direct Supervisor and Research Mentor with Dr. Thesen: Quantitative analysis of MRI in epilepsy and comorbid conditions, New York University School of Medicine, Successful publication of work. Went on to graduate school

2009 - 2012 Thomas Belcher, Direct Supervisor and Research Mentor with Dr. Thesen: Intracranial EEG and cortical mapping correlations, New York University School of Medicine

2011 - 2012 Andrew Tarr, Quality Improvement with Dr. Gazzola: Epilepsy monitoring unit utilization and the time to capture the typical events, New York University School of Medicine

Medical Students

2008 - 2010 Joanna Koutros, MD, Direct Supervisor and Research Mentor with Dr. Thesen: Analysis of multisensory data utilizing non-invasive neuroimaging (MEG and fMRI), New York University School of Medicine

2011 - 2012 Judith Katz, Direct Supervisor and Research Mentor with Drs. Dugan and French: Project to characterize and classify neocortical epilepsy, New York University School of Medicine

2011 - 2013 Tracy Ma, Direct Supervisor and Research Mentor with Drs. Kuzniecky and Weiner: Project analyzing cortical and perituberal cortical hyperexcitability in tuberous sclerosis complex, New York University School of Medicine

03/09/2018 - 06/30/2021 Chehan Herath, Career and Residency Guidance, Medical College of Wisconsin - Green Bay, Matched in Neurology to MCW

Graduate Students

PhD Students Advised

09/2010 - 03/29/2012 Alyson Silverberg, RN, MSN, ANP-BC, CNRN, DNP Capstone: Implementation of an Evidence-Based Protocol to Minimize Wound Infections in Neurosurgical Patients Undergoing Intracranial Monitoring, New York University School of Nursing

2011 - 03/29/2012 Mary Miceli, ACNP-BC, MA, CNRN, DNP Capstone: Seizure Identification and Documentation Education Program, New York University College of Nursing

PhD Committees

09/2010 - 03/29/2012 Alyson Silverberg, RN, MSN, ANP-BC, CNRN, DNP Capstone: Implementation of an Evidence-Based Protocol to Minimize Wound Infections in Neurosurgical Patients Undergoing Intracranial Monitoring, New York University College of Nursing

Clinical/Research Fellows

2008 - 2010 Patricia Dugan, MD, Research Mentor with Dr. French: Epilepsy Surgery Grading Project, New York University School of Medicine, Presented at the American Epilepsy Society; published manuscript

2010 - 2012 Maria Stefanidou, MD, Research Mentor with Dr. Friedman: Heart rate changes and their

correlations with intracranial seizure localization, New York University School of Medicine, Presented at the American Epilepsy Society; published manuscript

Residents

2008 - 2010 Marjorie Bunch, MD, Research Mentor with Dr. French: Systematic review of the literature on predictive factors for epilepsy surgery, New York University School of Medicine, Presented at the American Epilepsy Society; published manuscript

2011 - 2013 Jennifer Werely, MD, Research Mentor with Drs. Gazzola and French: Analyzing factors impacting normal neuroimaging in epilepsy, New York University School of Medicine, Presented at the American Epilepsy Society

2011 - 2013 Thomas Berk, MD, Research Mentor with Dr. French: Analyzing the features of generalized tonic-clonic convulsions, New York University School of Medicine, Presented at the American Epilepsy Society

05/01/2012 - 05/01/2016 Sujata Thawani, MD, Quality Improvement Mentor with Dr. Gazzola: Epilepsy monitoring unit utilization and the time to capture the typical events, New York University, Presented at the American Epilepsy Society; published manuscript

Faculty

2008 - 2011 Alyson Silverberg, RN, MSN, ANP-BC, CNRN, Research Mentor: Utility of invasive electrodes immediately following corpus callosotomy, New York University School of Medicine, Published manuscript

03/29/2012 - 07/01/2016 Alyson Silverberg, DNP, RN, MSN, ANP-BC, CNRN, Research Mentor: Analyzing the value of bilateral intracranial EEG studies, New York University School of Medicine, Published manuscript

03/29/2013 - 07/01/2016 Mary Miceli, DNP, ACNP-BC, MA, CNRN, Research Mentor: analyzing the value of bilateral intracranial EEG studies, New York University School of Medicine, Published manuscript

Clinical Staff

07/01/2017 - 12/30/2019 Linda Allen, RN, Research Project Mentorship, Froedtert Hospital, The quality improvement project on psychogenic non-epileptic events was presented at the American Epilepsy Society meeting December 2018.

PROGRAMMATIC DEVELOPMENTS:

Educational Programs

Fellow

07/01/2013 - 06/30/2014 Reviewed and restructured Clinical Neurophysiology Fellowship curriculum.

06/01/2015 - 07/15/2015 Redesigned all evaluations for Clinical Neurophysiology Fellows along the concept of Entrustable Professional Activities and mapped these to corresponding Milestones.

06/01/2015 - 07/15/2015 Restructured fellow evaluations of faculty and rotations as well as 360 evaluations to improve usability and quality of data based upon published studies on evaluations.

02/01/2016 - 06/30/2017 Developed a formal Epilepsy Fellowship program recognized and approved by MCWAH compliant with ACGME regulations; fully accredited by the ACGME.

02/01/2022 - 05/01/2023 Transition leadership of Clinical Neurophysiology and Epilepsy fellowships. Prepare for and make the transition to the Match for Epilepsy and CNP.

Resident

05/01/2014 - 07/01/2014 Developed and implemented a system (GMETs) for managing the activities of the residents in the Neurology Program and fellows in Clinical Neurophysiology and Epilepsy for the Department of Neurology.

06/01/2014 - 07/01/2014 Developed a structured sub-curriculum in Neuroanatomy for residents.

06/15/2014 - 08/01/2014 Collaborated with Wes Rood and Dr. Jennifer Connely on the implementation and launch of the Medical Education Evaluation System for monitoring milestone-based evaluations for ACGME programs.

06/15/2014 - 09/01/2015 Worked with Dr. Diane Book to develop and implement a structured curriculum in Patient Safety Quality Improvement to complement resident projects and general fund of knowledge.

- 07/01/2014 - 07/01/2015 Developed a new, comprehensive Neurology Resident lecture curriculum with lectures mapped to appropriate reading to encourage independent study. Curriculum implemented 7/1/2015.
- 07/01/2014 - 07/01/2015 Adapted the newly redesigned Neuroanatomy Curriculum and Neurology Resident Curriculum to the 3-hour Academic Half Day model. Lectures were restructured when needed and topics added.
- 07/02/2014 - 04/01/2015 Developed a transition to an Academic Half Day curriculum implemented (with weekly 3 hour sessions) fully July 1, 2015.
- 06/01/2015 - 07/15/2015 Restructured resident evaluations of faculty and rotations as well as 360 evaluations to improve usability and quality of data based upon published studies on evaluations.
- 11/01/2015 - 01/01/2016 Reviewed policies and procedures for residents and fellows and led the efforts to revise, update and unify all policies to improve oversight, understanding, and equity amongst trainees.
- 01/01/2016 Implemented a new, innovative evaluation strategy for residents utilizing Entrustable Professional Activities.
- 07/01/2016 - 06/30/2017 Developed a boot camp integrated in the Neurology clinic rotation to provide "ride along" night float experiences and didactic teaching to facilitate the transition to PGY2 Neurology residents.
- 07/01/2016 - 07/01/2017 Requested and received approval for a complement increase for the Adult Neurology residency from 20 to 22 residents on 10/21/2016. Recruitment for an additional intern began 2016-2017.
- 07/01/2018 - 09/30/2019 Developed a Neurophysiology Bootcamp rotation for Neurology Residents, Clinical Neurophysiology Fellows, and Epilepsy Fellows.
- 12/01/2020 - 04/01/2021 Revised the Neurology evaluations to align with the Milestones 2.0 for Neurology which will be implemented July 2021.
- 01/01/2022 - 07/01/2024 Developed 5+1 schedule for Adult Neurology Residency to enhance the learning opportunities for all residents.
- 03/01/2023 - 10/01/2023 Transitioned Adult Neurology Residency program to Thalamus platform for review of applications and interview including restructure of scoring and rating algorithms.

Research Programs

- 2006 - 2015 For the NYU School of Medicine a clinical and research reporting and registry system was developed and maintained for work involving electrophysiology, neuroimaging, and classification
- 2006 - 12/14/2012 For the NYU School of Medicine, worked with Dr. Thomas Thesen with the support of Drs. Devinsky and Kuzniecky to establish the neuroimaging research group with 17 publications during my time there.
- 2006 - 12/14/2012 For the NYU School of Medicine, worked with Dr. Thomas Thesen, with the support of Drs. Devinsky and Kuzniecky, to build the intracranial research collaboration across labs and institutions
- 08/01/2018 - 05/01/2023 Collaborated with Neurology Program Directors around the United States to develop a multi-center study of active learning methods in Neurology Graduate Medical Education.

Clinical Programs

- 2006 - 12/14/2012 For the NYU Langone Medical Center provided physician leadership for the upgrade of the 26 fixed and 16 mobile video-EEG systems and provided day-to-day monitoring of operations.
- 2006 For the NYU Langone Medical Center, organized all services of the epilepsy surgery (special procedures) service across providers and took over day-to-day clinical and administrative
- 01/15/2012 - Present Continue to build and recruit to the Epilepsy program with Dr. Manoj Raghavan. Have gone from 3 to 6 faculty.
- 12/01/2013 - 06/01/2014 Worked with multidisciplinary team to streamline the Epilepsy triage process for new referrals to align better with the departmental and institutional process goals.
- 01/01/2015 - 07/01/2015 Identified a candidate and worked with Tammy Bamlett, Dr. Manoj Raghavan, and Dr. Chris Anderson to transition technical leadership in the MEG to improve clinical and academic output.

COMMUNITY SERVICE ACTIVITIES:

- 05/22/2013 Froedtert & The Medical College of Wisconsin Community Education: Epilepsy 101. Milwaukee, WI
- 10/22/2014 Froedtert Epilepsy Support Group: Women's Issues in Epilepsy. Milwaukee, WI
- 06/28/2017 Froedtert Epilepsy Support Group. Epilepsy Q&A Session. Milwaukee, WI
- 05/22/2019 Froedtert Epilepsy Support Group. Epilepsy Q&A. Milwaukee, WI
- 01/28/2021 Epilepsy Foundation Wisconsin. Lecture and Q&A Session. "Breakdown of Seizure Types"

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. **Carlson C**, Britt WJ, Compton T. Expression, purification, and characterization of a soluble form of human cytomegalovirus glycoprotein B. *Virology*. 1997 Dec 08;239(1):198-205.
2. **Carlson C**, St Louis EK. Vacuum cleaner epilepsy. *Neurology*. 2004 Jul 13;63(1):190-1.
3. Weiner HL, **Carlson C**, Ridgway EB, Zaroff CM, Miles D, LaJoie J, Devinsky O. Epilepsy surgery in young children with tuberous sclerosis: results of a novel approach. *Pediatrics*. 2006 May;117(5):1494-502.
4. Zaroff CM, Barr WB, **Carlson C**, LaJoie J, Madhavan D, Miles DK, Nass R, Devinsky O. Mental retardation and relation to seizure and tuber burden in tuberous sclerosis complex. *Seizure*. 2006 Oct;15(7):558-62.
5. Schevon CA, **Carlson C**, Zaroff CM, Weiner HJ, Doyle WK, Miles D, Lajoie J, Kuzniecky R, Pacia S, Vazquez B, Luciano D, Najjar S, Devinsky O. Pediatric language mapping: sensitivity of neurostimulation and Wada testing in epilepsy surgery. *Epilepsia*. 2007 Mar;48(3):539-45.
6. Madhavan D, Weiner HL, **Carlson C**, Devinsky O, Kuzniecky R. Local epileptogenic networks in tuberous sclerosis complex: a case review. *Epilepsy Behav*. 2007 Aug;11(1):140-6.
7. Madhavan D, Mirowski P, Ludvig N, **Carlson C**, Doyle W, Devinsky O, Kuzniecky R. Effects of subdural application of lidocaine in patients with focal epilepsy. *Epilepsy Res*. 2008 Feb;78(2-3):235-9.
8. Alper K, Kuzniecky R, **Carlson C**, Barr WB, Vorkas CK, Patel JG, Carrelli AL, Starner K, Flom PL, Devinsky O. Postictal psychosis in partial epilepsy: a case-control study. *Ann Neurol*. 2008 May;63(5):602-10.
9. Bollo RJ, Kalthorn SP, **Carlson C**, Haegeli V, Devinsky O, Weiner HL. Epilepsy surgery and tuberous sclerosis complex: special considerations. *Neurosurg Focus*. 2008 Sep;25(3):E13.
10. **Carlson C**, Arnedo V, Cahill M, Devinsky O. Detecting nocturnal convulsions: efficacy of the MP5 monitor. *Seizure*. 2009 Apr;18(3):225-7.
11. Macallister WS, Nakhutina L, Bender HA, Karantzoulis S, **Carlson C**. Assessing effort during neuropsychological evaluation with the TOMM in children and adolescents with epilepsy. *Child Neuropsychol*. 2009 Nov;15(6):521-31.
12. Keller CJ, Cash SS, Narayanan S, Wang C, Kuzniecky R, **Carlson C**, Devinsky O, Thesen T, Doyle W, Sassaroli A, Boas DA, Ulbert I, Halgren E. Intracranial microprobe for evaluating neuro-hemodynamic coupling in unanesthetized human neocortex. *J Neurosci Methods*. 2009 May 15;179(2):208-18. PMID: PMC2680793
13. Bollo RJ, **Carlson C**, Schevon C, Wisoff JH, Devinsky O, Weiner HL. Extraoperative functional mapping and staged resection of supratentorial tumors near eloquent cortex in children. *Pediatr Neurosurg*. 2009;45(3):175-80.
14. McDonald CR, Thesen T, Hagler DJ Jr, **Carlson C**, Devinsky O, Kuzniecky R, Barr W, Gharapetian L, Trongnetrpunya A, Dale AM, Halgren E. Distributed source modeling of language with magnetoencephalography: application to patients with intractable epilepsy. *Epilepsia*. 2009 Oct;50(10):2256-66. PMID: PMC2760088
15. Elliott RE, **Carlson C**, Kalthorn SP, Moshel YA, Weiner HL, Devinsky O, Doyle WK. Refractory epilepsy in tuberous sclerosis: vagus nerve stimulation with or without subsequent resective surgery. *Epilepsy Behav*. 2009 Nov;16(3):454-60.
16. Keller CJ, Truccolo W, Gale JT, Eskandar E, Thesen T, **Carlson C**, Devinsky O, Kuzniecky R, Doyle WK, Madsen JR, Schomer DL, Mehta AD, Brown EN, Hochberg LR, Ulbert I, Halgren E, Cash SS. Heterogeneous neuronal firing patterns during interictal epileptiform discharges in the human cortex. *Brain*. 2010 Jun;133(Pt 6):1668-81. PMID: PMC2877906
17. Blackmon K, Barr WB, Kuzniecky R, Dubois J, **Carlson C**, Quinn BT, Blumberg M, Halgren E, Hagler DJ,

- Mikhly M, Devinsky O, McDonald CR, Dale AM, Thesen T. Phonetically irregular word pronunciation and cortical thickness in the adult brain. *Neuroimage*. 2010 Jul 15;51(4):1453-8. PMID: PMC2873116
18. Moshel YA, Elliott R, Teutonico F, Sellin J, **Carlson C**, Devinsky O, Weiner HL. Do tubers contain function? Resection of epileptogenic foci in perirolandic cortex in children with tuberous sclerosis complex. *Epilepsia*. 2010 Jul;51(7):1242-51.
 19. Silverberg A, Parker-Menzer K, Devinsky O, Doyle W, **Carlson C**. Bilateral intracranial electroencephalographic monitoring immediately following corpus callosotomy. *Epilepsia*. 2010 Oct;51(10):2203-6.
 20. McDonald CR, Thesen T, **Carlson C**, Blumberg M, Girard HM, Trongnetrponya A, Sherfey JS, Devinsky O, Kuzniecky R, Dolye WK, Cash SS, Leonard MK, Hagler DJ Jr, Dale AM, Halgren E. Multimodal imaging of repetition priming: Using fMRI, MEG, and intracranial EEG to reveal spatiotemporal profiles of word processing. *Neuroimage*. 2010 Nov 01;53(2):707-17. PMID: PMC2930128
 21. Englot DJ, Yang L, Hamid H, Danielson N, Bai X, Marfeo A, Yu L, Gordon A, Purcaro MJ, Motelow JE, Agarwal R, Ellens DJ, Golomb JD, Shamy MC, Zhang H, **Carlson C**, Doyle W, Devinsky O, Vives K, Spencer DD, Spencer SS, Schevon C, Zaveri HP, Blumenfeld H. Impaired consciousness in temporal lobe seizures: role of cortical slow activity. *Brain*. 2010 Dec;133(Pt 12):3764-77. PMID: PMC2995886
 22. Elliott RE, Morsi A, Kalhorn SP, Marcus J, Sellin J, Kang M, Silverberg A, Rivera E, Geller E, **Carlson C**, Devinsky O, Doyle WK. Vagus nerve stimulation in 436 consecutive patients with treatment-resistant epilepsy: long-term outcomes and predictors of response. *Epilepsy Behav*. 2011 Jan;20(1):57-63.
 23. Elliott RE, Morsi A, Tanweer O, Grobely B, Geller E, **Carlson C**, Devinsky O, Doyle WK. Efficacy of vagus nerve stimulation over time: review of 65 consecutive patients with treatment-resistant epilepsy treated with VNS > 10 years. *Epilepsy Behav*. 2011 Mar;20(3):478-83.
 24. Thesen T, Quinn BT, **Carlson C**, Devinsky O, DuBois J, McDonald CR, French J, Leventer R, Felsovalyi O, Wang X, Halgren E, Kuzniecky R. Detection of epileptogenic cortical malformations with surface-based MRI morphometry. *PLoS One*. 2011 Feb 04;6(2):e16430. PMID: PMC3033882
 25. **Carlson C**, Teutonico F, Elliott RE, Moshel YA, LaJoie J, Miles D, Devinsky O, Weiner HL. Bilateral invasive electroencephalography in patients with tuberous sclerosis complex: a path to surgery? *J Neurosurg Pediatr*. 2011 Apr;7(4):421-30.
 26. Elliott RE, Rodgers SD, Bassani L, Morsi A, Geller EB, **Carlson C**, Devinsky O, Doyle WK. Vagus nerve stimulation for children with treatment-resistant epilepsy: a consecutive series of 141 cases. *J Neurosurg Pediatr*. 2011 May;7(5):491-500.
 27. DuBois JM, Devinsky O, **Carlson C**, Kuzniecky R, Quinn BT, Alper K, Butler T, Starner K, Halgren E, Thesen T. Abnormalities of cortical thickness in postictal psychosis. *Epilepsy Behav*. 2011 Jun;21(2):132-6.
 28. Sansa G, **Carlson C**, Doyle W, Weiner HL, Bluvstein J, Barr W, Devinsky O. Medically refractory epilepsy in autism. *Epilepsia*. 2011 Jun;52(6):1071-5.
 29. Dykstra AR, Halgren E, Thesen T, **Carlson CE**, Doyle W, Madsen JR, Eskandar EN, Cash SS. Widespread Brain Areas Engaged during a Classical Auditory Streaming Task Revealed by Intracranial EEG. *Front Hum Neurosci*. 2011;5:74. PMID: PMC3154443
 30. Blackmon K, Halgren E, Barr WB, **Carlson C**, Devinsky O, DuBois J, Quinn BT, French J, Kuzniecky R, Thesen T. Individual differences in verbal abilities associated with regional blurring of the left gray and white matter boundary. *J Neurosci*. 2011 Oct 26;31(43):15257-63. PMID: PMC3865435
 31. Elliott RE, Morsi A, Geller EB, **Carlson CC**, Devinsky O, Doyle WK. Impact of failed intracranial epilepsy surgery on the effectiveness of subsequent vagus nerve stimulation. *Neurosurgery*. 2011 Dec;69(6):1210-7.
 32. Blackmon K, Barr WB, **Carlson C**, Devinsky O, DuBois J, Pogash D, Quinn BT, Kuzniecky R, Halgren E, Thesen T. Structural evidence for involvement of a left amygdala-orbitofrontal network in subclinical anxiety. *Psychiatry Res*. 2011 Dec 30;194(3):296-303. PMID: PMC3544472
 33. Ludvig N, Medveczky G, Rizzolo R, Tang HM, Baptiste SL, Doyle WK, Devinsky O, **Carlson C**, French JA, Kral JG, Charchaflied J, Kuzniecky RI. An implantable triple-function device for local drug delivery, cerebrospinal fluid removal and EEG recording in the cranial subdural/subarachnoid space of primates. *J Neurosci Methods*. 2012 Jan 30;203(2):275-83.
 34. Butler T, Blackmon K, McDonald CR, **Carlson C**, Barr WB, Devinsky O, Kuzniecky R, DuBois J, French J, Halgren E, Thesen T. Cortical thickness abnormalities associated with depressive symptoms in temporal lobe epilepsy. *Epilepsy Behav*. 2012 Jan;23(1):64-7. PMID: PMC3259282

35. Butler T, Blackmon K, Zaborszky L, Wang X, DuBois J, **Carlson C**, Barr WB, French J, Devinsky O, Kuzniecky R, Halgren E, Thesen T. Volume of the human septal forebrain region is a predictor of source memory accuracy. *J Int Neuropsychol Soc.* 2012 Jan;18(1):157-61. PMID: PMC3339258
36. Roth J, Olasunkanmi A, Ma TS, **Carlson C**, Devinsky O, Harter DH, Weiner HL. Epilepsy control following intracranial monitoring without resection in young children. *Epilepsia.* 2012 Feb;53(2):334-41.
37. McGill ML, Devinsky O, Kelly C, Milham M, Castellanos FX, Quinn BT, DuBois J, Young JR, **Carlson C**, French J, Kuzniecky R, Halgren E, Thesen T. Default mode network abnormalities in idiopathic generalized epilepsy. *Epilepsy Behav.* 2012 Mar;23(3):353-9. PMID: PMC4407647
38. Whitman LA, Morrison CE, Becske T, Barr WB, **Carlson C**. The intracarotid amobarbital procedure: when is it worth repeating? *Epilepsia.* 2012 Apr;53(4):721-7.
39. Ludvig N, Tang HM, Baptiste SL, Medveczky G, Vaynberg JK, Vazquez-DeRose J, Stefanov DG, Devinsky O, French JA, **Carlson C**, Kuzniecky RI. Long-term behavioral, electrophysiological, and neurochemical monitoring of the safety of an experimental antiepileptic implant, the muscimol-delivering Subdural Pharmacotherapy Device in monkeys. *J Neurosurg.* 2012 Jul;117(1):162-75.
40. Yang AI, Wang X, Doyle WK, Halgren E, **Carlson C**, Belcher TL, Cash SS, Devinsky O, Thesen T. Localization of dense intracranial electrode arrays using magnetic resonance imaging. *Neuroimage.* 2012 Oct 15;63(1):157-165. PMID: PMC4408869
41. Honey CJ, Thesen T, Donner TH, Silbert LJ, **Carlson CE**, Devinsky O, Doyle WK, Rubin N, Heeger DJ, Hasson U. Slow cortical dynamics and the accumulation of information over long timescales. *Neuron.* 2012 Oct 18;76(2):423-34. PMID: PMC3517908
42. Ma TS, Elliott RE, Ruppe V, Devinsky O, Kuzniecky R, Weiner HL, **Carlson C**. Electrographic evidence of perituberal cortex epileptogenicity in tuberous sclerosis complex. *J Neurosurg Pediatr.* 2012 Nov;10(5):376-82.
43. Gazzola DM, **Carlson C**, Rugino A, Hirsch S, Starner K, Devinsky O. Psychogenic nonepileptic seizures and chronic pain: a retrospective case-controlled study. *Epilepsy Behav.* 2012 Dec;25(4):662-5.
44. Thesen T, McDonald CR, **Carlson C**, Doyle W, Cash S, Sherfey J, Felsovalyi O, Girard H, Barr W, Devinsky O, Kuzniecky R, Halgren E. Sequential then interactive processing of letters and words in the left fusiform gyrus. *Nat Commun.* 2012;3:1284. PMID: PMC4407686
45. Butler T, Zaborszky L, Wang X, McDonald CR, Blackmon K, Quinn BT, DuBois J, **Carlson C**, Barr WB, French J, Kuzniecky R, Halgren E, Devinsky O, Thesen T. Septal nuclei enlargement in human temporal lobe epilepsy without mesial temporal sclerosis. *Neurology.* 2013 Jan 29;80(5):487-91. PMID: PMC3590047
46. Goldberg E, Roediger D, Kucukboyaci NE, **Carlson C**, Devinsky O, Kuzniecky R, Halgren E, Thesen T. Hemispheric asymmetries of cortical volume in the human brain. *Cortex.* 2013 Jan;49(1):200-10.
47. Elliott RE, Bollo RJ, Berliner JL, Silverberg A, **Carlson C**, Geller EB, Barr WB, Devinsky O, Doyle WK. Anterior temporal lobectomy with amygdalohippocampectomy for mesial temporal sclerosis: predictors of long-term seizure control. *J Neurosurg.* 2013 Aug;119(2):261-72.
48. **Carlson C**. The Changing Face of Epileptology? Results of the Initial Q-PULSE Survey. *Epilepsy Curr.* 2013 Nov;13(6):305-7. PMID: PMC3854752
49. Quinn BT, **Carlson C**, Doyle W, Cash SS, Devinsky O, Spence C, Halgren E, Thesen T. Intracranial cortical responses during visual-tactile integration in humans. *J Neurosci.* 2014 Jan 01;34(1):171-81. PMID: PMC3866483
50. Harter DH, Bassani L, Rodgers SD, Roth J, Devinsky O, **Carlson C**, Wisoff JH, Weiner HL. A management strategy for intraventricular subependymal giant cell astrocytomas in tuberous sclerosis complex. *J Neurosurg Pediatr.* 2014 Jan;13(1):21-8.
51. Roth J, **Carlson C**, Devinsky O, Harter DH, Macallister WS, Weiner HL. Safety of staged epilepsy surgery in children. *Neurosurgery.* 2014 Feb;74(2):154-62.
52. Cogan GB, Thesen T, **Carlson C**, Doyle W, Devinsky O, Pesaran B. Sensory-motor transformations for speech occur bilaterally. *Nature.* 2014 Mar 06;507(7490):94-8. PMID: PMC4000028
53. Ruppe V, Dilsiz P, Reiss CS, **Carlson C**, Devinsky O, Zagzag D, Weiner HL, Talos DM. Developmental brain abnormalities in tuberous sclerosis complex: a comparative tissue analysis of cortical tubers and perituberal cortex. *Epilepsia.* 2014 Apr;55(4):539-50.
54. Anderson CT, **Carlson CE**, Li Z, Raghavan M. Magnetoencephalography in the preoperative evaluation for epilepsy surgery *European Journal of Orthopaedic Surgery and Traumatology.* July 2014;24(SUPPL.1):446.
55. Privitera M, Welty T, Gidal B, **Carlson C**, Pollard J, Berg M. How Do Clinicians Adjust Lamotrigine Doses

- and Use Lamotrigine Blood Levels?-A Q-PULSE Survey. *Epilepsy Curr.* 2014 Jul;14(4):218-23. PMID: PMC4120397
56. Dugan P, **Carlson C**, Bluvstein J, Chong DJ, Friedman D, Kirsch HE, EPGP Investigators. Auras in generalized epilepsy. *Neurology.* 2014 Oct 14;83(16):1444-9. PMID: PMC4206156
57. **Carlson C**, Dugan P, Kirsch HE, Friedman D, EPGP Investigators. Sex differences in seizure types and symptoms. *Epilepsy Behav.* 2014 Dec;41:103-8. PMID: PMC4267158
58. McGill ML, Devinsky O, Wang X, Quinn BT, Pardoe H, **Carlson C**, Butler T, Kuzniecky R, Thesen T. Functional neuroimaging abnormalities in idiopathic generalized epilepsy. *Neuroimage Clin.* 2014;6:455-62. PMID: PMC4221627
59. Berry K, Shuh K, Blackmon K, Devinsky O, **Carlson C**, Kuzniecky R, Doyle W, Thesen T. Limitations of functional magnetic resonance imaging in mapping function near a vascular lesion: A case study *Journal of Pediatric Neuroradiology.* 2014;3(4):197-202
60. Jehi L, Friedman D, **Carlson C**, Cascino G, Dewar S, Elger C, Engel J Jr, Knowlton R, Kuzniecky R, McIntosh A, O'Brien TJ, Spencer D, Sperling MR, Worrell G, Bingaman B, Gonzalez-Martinez J, Doyle W, French J. The evolution of epilepsy surgery between 1991 and 2011 in nine major epilepsy centers across the United States, Germany, and Australia. *Epilepsia.* 2015 Oct;56(10):1526-33. PMID: PMC5082694
61. Ahmed B, Brodley CE, Blackmon KE, Kuzniecky R, Barash G, **Carlson C**, Quinn BT, Doyle W, French J, Devinsky O, Thesen T. Cortical feature analysis and machine learning improves detection of "MRI-negative" focal cortical dysplasia. *Epilepsy Behav.* 2015 Jul;48:21-8. PMID: PMC4500682
62. Stefanidou M, **Carlson C**, Friedman D. The relationship between seizure onset zone and ictal tachycardia: An intracranial EEG study. *Clin Neurophysiol.* 2015 Dec;126(12):2255-60.
63. **Carlson C**, Anderson CT. Special Issues in Epilepsy: The Elderly, the Immunocompromised, and Bone Health. *Continuum (Minneapolis, Minn).* 2016 Feb;22(1 Epilepsy):246-61.
64. Gazzola DM, Thawani S, Agbe-Davies O, **Carlson C**. Epilepsy monitoring unit length of stay. *Epilepsy Behav.* 2016 May;58:102-5.
65. Hamberger MJ, Miozzo M, Schevon CA, Morrison C, **Carlson C**, Mehta AD, Klein GE, McKhann GM 2nd, Williams AC. Functional differences among stimulation-identified cortical naming sites in the temporal region. *Epilepsy Behav.* 2016 Jul;60:124-129. PMID: PMC4912888
66. Hill TC, Rubin BA, Tyagi V, Theobald J, Silverberg A, Miceli M, Dugan P, **Carlson C**, Doyle WK. The Value of Diagnostic Bilateral Intracranial Electroencephalography in Treatment-Resistant Focal Epilepsy. *World Neurosurg.* 2017 Jul;103:1-10.
67. Dugan P, **Carlson C**, Jetté N, Wiebe S, Bunch M, Kuzniecky R, French J. Derivation and initial validation of a surgical grading scale for the preliminary evaluation of adult patients with drug-resistant focal epilepsy. *Epilepsia.* 2017 May;58(5):792-800.
68. Peters MAK, Thesen T, Ko YD, Maniscalco B, **Carlson C**, Davidson M, Doyle W, Kuzniecky R, Devinsky O, Halgren E, Lau H. Perceptual confidence neglects decision-incongruent evidence in the brain. *Nat Hum Behav.* 2017;1. PMID: PMC5675133
69. Raghavan M, Li Z, **Carlson C**, Anderson CT, Stout J, Sabsevitz DS, Swanson SJ, Binder JR. MEG language lateralization in partial epilepsy using dSPM of auditory event-related fields. *Epilepsy Behav.* 2017 Aug;73:247-255.
70. Whelan CD, Altmann A, Botía JA, Jahanshad N, Hibar DP, Absil J, Alhusaini S, Alvim MKM, Auvinen P, Bartolini E, Berge FPG, Bernardes T, Blackmon K, Braga B, Caligiuri ME, Calvo A, Carr SJ, Chen J, Chen S, Cherubini A, David P, Domin M, Foley S, França W, Haaker G, Isaev D, Keller SS, Kotikalapudi R, Kowalczyk MA, Kuzniecky R, Langner S, Lenge M, Leyden KM, Liu M, Loi RQ, Martin P, Mascalchi M, Morita ME, Pariente JC, Rodríguez-Cruces R, Rummel C, Saavalainen T, Semmelroch MK, Severino M, Thomas RH, Tondelli M, Tortora D, Vaudano AE, Vivash L, von Podewils F, Wagner J, Weber B, Yao Y, Yasuda CL, Zhang G, Bargalló N, Bender B, Bernasconi N, Bernasconi A, Bernhardt BC, Blümcke I, **Carlson C**, Cavalleri GL, Cendes F, Concha L, Delanty N, Depondt C, Devinsky O, Doherty CP, Focke NK, Gambardella A, Guerrini R, Hamandi K, Jackson GD, Kälviäinen R, Kochunov P, Kwan P, Labate A, McDonald CR, Meletti S, O'Brien TJ, Ourselin S, Richardson MP, Striano P, Thesen T, Wiest R, Zhang J, Vezzani A, Ryten M, Thompson PM, Sisodiya SM. Structural brain abnormalities in the common epilepsies assessed in a worldwide ENIGMA study. *Brain.* 2018 Feb 01;141(2):391-408. PMID: PMC5837616
71. Marks S, Williams A, Peltier W, Helms A, **Carlson C**. Treat the Patient, Not the Test When a Hospitalized Patient in Status Epilepticus Transitions to Comfort-Focused Goals of Care. *J Palliat Med.* 2018 Aug;21(8):1195-1198.

72. Sandrone S, Berthaud JV, **Carlson C**, Cios J, Dixit N, Farheen A, Kraker J, Owens JWM, Patino G, Sarva H, Weber D, Schneider LD. Education Research: Flipped classroom in neurology: Principles, practices, and perspectives. *Neurology*. 2019 Jul 02;93(1):e106-e111.
73. Sandrone S, Berthaud JV, **Carlson C**, Cios J, Dixit N, Farheen A, Kraker J, Owens JWM, Patino G, Sarva H, Weber D, Schneider LD. Strategic Considerations for Applying the Flipped Classroom to Neurology Education. *Ann Neurol*. 2020 Jan;87(1):4-9.
74. Swanson SJ, Conant LL, Humphries CJ, LeDoux M, Raghavan M, Mueller WM, Allen L, Gross WL, Anderson CT, **Carlson CE**, Busch RM, Lowe M, Tivarus ME, Drane DL, Loring DW, Jacobs M, Morgan VL, Szaflarski J, Bonilha L, Bookheimer S, Grabowski T, Phatak V, Vannest J, Binder JR, FMRI in Anterior Temporal Epilepsy Surgery (FATES) study. Changes in description naming for common and proper nouns after left anterior temporal lobectomy. *Epilepsy Behav*. 2020 May;106:106912. PMID: PMC7195239
75. Sandrone S, Berthaud JV, **Carlson C**, Cios J, Dixit N, Farheen A, Kraker J, Owens JWM, Patino G, Sarva H, Weber D, Schneider LD. Active Learning in Psychiatry Education: Current Practices and Future Perspectives *Frontiers in Psychiatry*. 23 April 2020;11.
76. Block A, Champeau D, **Carlson C**, Helms A, Obeidat AZ. Anti-myelin oligodendrocyte glycoprotein (MOG) associated disease masquerading as prolonged intractable nausea and vomiting. *Mult Scler Relat Disord*. 2020 Sep;44:102308.
77. Binder JR, Tong JQ, Pillay SB, Conant LL, Humphries CJ, Raghavan M, Mueller WM, Busch RM, Allen L, Gross WL, Anderson CT, **Carlson CE**, Lowe MJ, Langfitt JT, Tivarus ME, Drane DL, Loring DW, Jacobs M, Morgan VL, Allendorfer JB, Szaflarski JP, Bonilha L, Bookheimer S, Grabowski T, Vannest J, Swanson SJ, fMRI in Anterior Temporal Epilepsy Surgery (FATES) study. Temporal lobe regions essential for preserved picture naming after left temporal epilepsy surgery. *Epilepsia*. 2020 Sep;61(9):1939-1948. PMID: PMC7722029
78. Sandrone S and **Carlson C**. Gamification and game-based education in neurology and neuroscience: Applications, challenges, and opportunities *Brain Disorders*. Vol 1. March 2021. <https://doi.org/10.1016/j.dscb.2021.100008>.
79. Sandrone S, **Carlson CE**. Future of Neurology & Technology: Virtual and Augmented Reality in Neurology and Neuroscience Education: Applications and Curricular Strategies. *Neurology*. 2021 Oct 11;97(15):740-744.
80. Hanrahan B, Lee C, Jozefowicz R, Schloemer F, Helms A, Bradshaw D, Ojha A, Biswas S, **Carlson C**. You never forget your first? Impact of interview timing on institutional rank order. *Med Educ*. 2021 Jul;55(7):850-856.
81. Sharma S, Carlson S, Gregory-Flores A, Hinojo-Perez A, Olson A, Thippeswamy T. Mechanisms of disease-modifying effect of saracatinib (AZD0530), a Src/Fyn tyrosine kinase inhibitor, in the rat kainate model of temporal lobe epilepsy. *Neurobiol Dis*. 2021 Aug;156:105410. PMID: PMC8325782
82. Kaestner E, Thesen T, Devinsky O, Doyle W, **Carlson C**, Halgren E. An Intracranial Electrophysiology Study of Visual Language Encoding: The Contribution of the Precentral Gyrus to Silent Reading. *J Cogn Neurosci*. 2021 Oct 01;33(11):2197-2214. PMID: PMC8497063
83. Kaestner E, Wu X, Friedman D, Dugan P, Devinsky O, **Carlson C**, Doyle W, Thesen T, Halgren E. The Precentral Gyrus Contributions to the Early Time-Course of Grapheme-to-Phoneme Conversion. *Neurobiology of Language*. .
84. Altmann A, Rytén M, Di Nunzio M, Ravizza T, Tolomeo D, Reynolds RH, Somani A, Bacigaluppi M, Iori V, Micotti E, Di Sapia R, Cerovic M, Palma E, Ruffolo G, Botía JA, Absil J, Alhusaini S, Alvim MKM, Auvinen P, Bargallo N, Bartolini E, Bender B, Bergo FPG, Bernardes T, Bernasconi A, Bernasconi N, Bernhardt BC, Blackmon K, Braga B, Caligiuri ME, Calvo A, **Carlson C**, Carr SJA, Cavalleri GL, Cendes F, Chen J, Chen S, Cherubini A, Concha L, David P, Delanty N, Depondt C, Devinsky O, Doherty CP, Domin M, Focke NK, Foley S, Franca W, Gambardella A, Guerrini R, Hamandi K, Hibar DP, Isaev D, Jackson GD, Jahanshad N, Kälviäinen R, Keller SS, Kochunov P, Kotikalapudi R, Kowalczyk MA, Kuzniecky R, Kwan P, Labate A, Langner S, Lenge M, Liu M, Martin P, Mascalchi M, Meletti S, Morita-Sherman ME, O'Brien TJ, Pariente JC, Richardson MP, Rodriguez-Cruces R, Rummel C, Saavalainen T, Semmelroch MK, Severino M, Striano P, Thesen T, Thomas RH, Tondelli M, Tortora D, Vaudano AE, Vivash L, von Podewils F, Wagner J, Weber B, Wiest R, Yasuda CL, Zhang G, Zhang J, ENIGMA-Epilepsy Working Group, Leu C, Avbersek A, EpiPGX Consortium, Thom M, Whelan CD, Thompson P, McDonald CR, Vezzani A, Sisodiya SM. A systems-level analysis highlights microglial activation as a modifying factor in common epilepsies. *Neuropathol Appl Neurobiol*. 2022 Feb;48(1):e12758. PMID: PMC8983060

85. Kaestner E, Wu X, Friedman D, Dugan P, Devinsky O, **Carlson C**, Doyle W, Thesen T, Halgren E. The Precentral Gyrus Contributions to the Early Time-Course of Grapheme-to-Phoneme Conversion *Neurobiology of Language*. 10 February 2022;3(1):18-4547.
86. Thio LL, Edgar L, Ali I, Farooque P, Holland KD, Mizrahi EM, Shahid AM, Shin HW, Yoo JY, **Carlson C**. Epilepsy Milestones 2.0: An updated framework for assessing epilepsy fellowships and fellows. *Epilepsia*. 2022 Aug;63(8):2155-2163.
87. Gross WL, Helfand AI, Swanson SJ, Conant LL, Humphries CJ, Raghavan M, Mueller WM, Busch RM, Allen L, Anderson CT, **Carlson CE**, Lowe MJ, Langfitt JT, Tivarus ME, Drane DL, Loring DW, Jacobs M, Morgan VL, Allendorfer JB, Szaflarski JP, Bonilha L, Bookheimer S, Grabowski T, Vannest J, Binder JR, FMRI in Anterior Temporal Epilepsy Surgery (FATES) Study. Prediction of Naming Outcome With fMRI Language Lateralization in Left Temporal Epilepsy Surgery. *Neurology*. 2022 Jun 07;98(23):e2337-e2346. PMID: PMC9202528
88. Yousofzadeh V, Conant L, Stout J, Ustine C, Humphries C, Gross WL, Shah-Basak P, Mathis J, Awe E, Allen L, DeYoe EA, **Carlson C**, Anderson CT, Maganti R, Hermann B, Nair VA, Prabhakaran V, Meyerand B, Binder JR, Raghavan M. Late dominance of the right hemisphere during narrative comprehension. *Neuroimage*. 2022 Dec 01;264:119749. PMID: PMC9772156
89. Pandya V, Bauer P, Thompson S, Anderson CT, Raghavan M, **Carlson C**. Anti-seizure medication treatment trials prior to pre-surgical evaluation. *Epilepsy Behav Rep*. 2022;20:100565. PMID: PMC9474306
90. Beinhoff P, Atlassy N, **Carlson C**. No Geographic Distribution Change Among Residency Applicants in the Neurology Match During COVID-19 Cureus. Beinhoff P, Atlassy N, **Carlson C** (February 12, 2023) No Geographic Distribution Change Among Residency Applicants in the Neurology Match During COVID-19. *Cureus* 15(2): e34898. DOI.
91. O'Donnell CM, Swanson SJ, **Carlson CE**, Raghavan M, Pahapill PA, Anderson CT. Responsive Neurostimulation of the Anterior Thalamic Nuclei in Refractory Genetic Generalized Epilepsy: A Case Series. *Brain Sci*. 2023 Feb 14;13(2). PMID: PMC9954640
92. Sandrone S, **Carlson C**. Gamification and game-based education in neurology and neuroscience: Applications, challenges, and opportunities *Brain Disorders*. March 2021;1.
93. Raghavan M, Pilet J, **Carlson C**, Anderson CT, Mueller W, Lew S, Ustine C, Shah-Basak P, Yousofzadeh V, Beardsley SA. Gamma amplitude-envelope correlations are strongly elevated within hyperexcitable networks in focal epilepsy. *Sci Rep*. 2024 Jul 31;14(1):17736. PMID: PMC11291981

Books, Chapters, and Reviews

1. Gazzola DM, **Carlson C**, Ryvlin P, Thadani VM, Taylor J, Rheims S. Overview of therapeutics in epilepsy: epilepsy surgery. In: French JA, Delanty N, eds. *Therapeutic Strategies in Epilepsy*. Ashland, OH: Clinical Publishing; 2009:27-49.
2. **Carlson C**, Devinsky O. The excitable cerebral cortex Fritsch G, Hitzig E. *Uber die elektrische Erregbarkeit des Grosshirns*. *Arch Anat Physiol Wissen* 1870;37:300-32. *Epilepsy Behav*. 2009 Jun;15(2):131-2.
3. Ludvig N, Medveczky G, French JA, **Carlson C**, Devinsky O, Kuzniecky RI. Evolution and prospects for intracranial pharmacotherapy for refractory epilepsies: the subdural hybrid neuroprosthesis. *Epilepsy Res Treat*. 2010;2010:725696. PMID: PMC3428620
4. Bollo RJ, **Carlson C**, Devinsky O, Weiner HL. Brain Mapping in Pediatric Patients: Special Considerations. In: Yosher D, Mizrahi E, eds. *Clinical Brain Mapping*: McGraw-Hill; 2011.
5. Parker-Menzer K, **Carlson C**, Singh A. Spasms in a Child. In: Singh A, ed. *Case-based neurology*. New York, NY: Demos Medical Pub.; 2012.
6. Anderson CT, **Carlson CE**, Li Z, Raghavan M. Magnetoencephalography in the preoperative evaluation for epilepsy surgery. *Curr Neurol Neurosci Rep*. 2014 May;14(5):446.
7. Morrison C and **Carlson C**. Electrocortical Mapping of Language. In: Barr, WB, Morrison C, eds. *Handbook on the Neuropsychology of Epilepsy*. Springer. 2015; 139-154.
8. Binder J and **Carlson C**. Language and Memory Mapping. In: Wyllie E, Gidal B, Goodkin H, Sirven J, Lodenkemper T, eds. *Wyllie's Treatment of Epilepsy*, 6e. Lippincott, Williams & Wilkins. 2015
9. Binder J and **Carlson C**. Language and Memory Mapping. In: Wyllie E, Gidal B, Goodkin H, Sirven J, Lodenkemper T, eds. *Wyllie's Treatment of Epilepsy*, 7e. Lippincott, Williams & Wilkins. 2021
10. Pandya V and **Carlson C**. Epilepsy Essentials: Neuromodulation for Drug-Resistant Epilepsy Practical Neurology. 2021(6):20-23.

Editorials, Letters To Editor, Other

1. **Carlson C.** First do no harm: safety in the epilepsy monitoring unit. *Epilepsy Curr.* 2009;9(6):162-3. PMID: PMC2778361
2. **Carlson C.** Wada you do for language: fMRI and language lateralization? *Epilepsy Curr.* 2010 Jul;10(4):86-8. PMID: PMC2912538
3. **Carlson C.** Epilepsy treatment stimulus package? Deep brain stimulation in treatment-resistant focal epilepsy. *Epilepsy Curr.* 2010 Nov;10(6):148-50. PMID: PMC3001023
4. **Carlson C.** Generalized Postictal EEG Background Suppression: A Marker of SUDEP Risk. *Epilepsy Curr.* 2011 May;11(3):86-7. PMID: PMC3117494
5. **Carlson C.** EEG Wave of the Future: The Video-EEG and fMRI Suite? *Epilepsy Curr.* 2013 Sep;13(5):205-6. PMID: PMC3854720
6. Elliott R, **Carlson C**, Doyle W, Devinsky O. Response. *J Neurosurg.* 2014 Mar;120(3):783.
7. **Carlson C.** Stay, Hit, or Fold? What Do You Do If the Treatment May Be as Bad as the Problem-Results of a Q-PULSE Survey. *Epilepsy Curr.* 2014;14(6):358-60. PMID: PMC4325590
8. **Carlson C.** CBD and marijuana: Q-PULSE Survey. *Epilepsy Curr.* 2014 Sep;14(5):291-6. PMID: PMC4189647
9. **Carlson C.** Can We Screen EEGs More Efficiently? Spectrographic Review of EEG Data. *Epilepsy Curr.* 2015;15(1):24-5. PMID: PMC4320952
10. **Carlson C.** Connecting the Dots? Linking Anatomy, Connectivity, and Physiology in Epilepsy. *Epilepsy Curr.* 2016;16(1):14-5. PMID: PMC4749106
11. **Carlson C.** Living With Epilepsy: It's Not Just a Matter of Quality. *Epilepsy Curr.* 2016;16(6):373-374. PMID: PMC5106094
12. **Carlson C.** Knowing is Half the Battle: Underestimating SUDEP Epilepsy Currents. 2018 Jan-Feb; 18(1):19-20.
13. **Carlson C.** Neurology Residency Virtual Interviews - Lessons Learned. Medical College of Wisconsin Kern Institute Transformational Times. March 19, 2021.
14. **Carlson C.** Professionalism in graduate medical education and the difference between and "oops," "can't," and "won't" Transformational Times. Online: 8/14/2023.
<https://files.constantcontact.com/adf622bd601/1a1bf6fa-d517-4292-9e85-1f5fa115b6cc.pdf?rdr=true>

Abstracts

1. **Carlson C**, Britt WJ, Compton T. Expression, Purification and Characterization of a Secreted Form of the Major Envelope Glycoprotein (gB) of Human Cytomegalovirus. Presented at the 13th Annual American Society for Virology Meeting; 1994 July 9-13; Madison, WI; 1994.
2. **Carlson C**, St Louis EK. The Heterogeneity of Epilepsy in the Elderly: When the EEG Matters Most. Presented at the International Geriatric Epilepsy Symposium; 2003 September 12-14; Miami, FL; 2003.
3. **Carlson C**, St Louis EK, Granner M. Yield of Video-EEG Monitoring in Patients Over the Age of 50. Presented at the 58th Annual Meeting of the American Epilepsy Society; 2004 December 3-7; New Orleans, LA; 2004.
4. **Carlson C**, St Louis EK, Grabowski T, Howard M. Estimation of Anterior Temporal Lobectomy Resection Volume Using Brainvox. Presented at the Cleveland Clinic-Bethel 15th International Epilepsy Symposium; 2004 July 15-18; Cleveland, OH; 2004.
5. **Carlson C**, Schevon C, Doyle W, Weiner HL, Emerson R, Hirsch L, Goodman R, Pacia S, Devinsky O, Kuzniecky R. Time-Frequency Analysis as an Adjunct to Intracranial EEG Interpretation. Presented at the 59th Annual Meeting of the American Epilepsy Society; 2005 December 2-6; Washington, D.C.; 2005.
6. **Carlson C**, Stout J, Schevon C, Kuzniecky R, Pacia S. Inter- and Intra-modality Reliability of Magnetoencephalographic Somatosensory Localization Utilizing pneumatic and Median Nerve Stimulation. Presented at the 58th Annual Meeting of the American Academy of Neurology; 2006 April 1-8; San Diego, CA; 2006.
7. Schevon C, **Carlson C**, Cappell J, Emerson R, Devinsky O, Weiner HL. Hypersynchronous Margins Identify Epileptogenic Tubers. Presented at the 60th Annual Meeting of the American Epilepsy Society; 2006 December 1-5; San Diego, CA; 2006.
8. Kuzniecky R, Vorkas C, Alper K, **Carlson C**, Barr W, Devinsky O. Postictal Psychosis: A Case Control Study. Presented at the 60th Annual Meeting of the American Epilepsy Society; 2006 December 1-5; San Diego, CA; 2006.

9. **Carlson C**, Schevon C, Stout J, Nadkarni S, Doyle W, Weiner HL, Pacia S, Devinsky O, Kuzniecky R. Magnetic Source Imaging for Pre-Surgical Lateralization of Refractory Epilepsy. Presented at the 60th Annual Meeting of the American Epilepsy Society; 2006 December 1-5; San Diego, CA; 2006.
10. Morrison C, Barr W, Doyle W, **Carlson C**, Zaroff C, Devinsky O. Acute Language Changes Following Epilepsy Surgery. Presented at the 60th Annual Meeting of the American Epilepsy Society; 2006 December 1-5; San Diego, CA; 2006.
11. Tai P, Schevon C, **Carlson C**, Stout J, Pacia S, Kuzniecky R. Can MEG Lateralize Bisynchronous Discharges? Presented at the Annual Meeting of the American Clinical Neurophysiology Society; 2006 November; Chicago, IL; 2006.
12. Thesen T, McDonald C, **Carlson C**, Kuzniecky R, Huang M, Ahmadi M, Hagler D, Stout J, Nearing K, Dale A, Barr W, Devinsky O, Halgren E. Non-invasive Mapping of Language Cortex with fMRI and MEG. Presented at the Cognitive Neuroscience Society; 2007 May; New York, NY; 2007.
13. Thesen T, **Carlson C**, McDonald C, Kuzniecky R, Hagler DJ, Stout J, Nearing K, Dale A, Barr W, Devinsky O, Halgren E. Comparing fMRI and MEG in the study of language processing. Presented at the 61st Annual Meeting of the American Epilepsy Society; 2007 November 30 - December 4; Philadelphia, PA; 2007.
14. Kokoszka A, **Carlson C**, Doyle W, Silverberg A, Mullin P, Spinner W, Andriola M, LaJoie J. Analysis of Revision Epilepsy Surgeries at a Major Academic Center. Presented at the 61st Annual Meeting of the American Epilepsy Society; 2007 November 30 - December 4; Philadelphia, PA; 2007.
15. Madhavan D, Mirowski PW, Ludvig N, **Carlson C**, Devinsky O, Doyle W, Kuzniecky R. Effects of subdural application of lidocaine on EEG spiking in patients with focal epilepsy. Presented at the 61st Annual Meeting of the American Epilepsy Society; 2007 November 30 - December 4; Philadelphia, PA; 2007.
16. Staresina BP, Thesen T, Donner TH, **Carlson C**, Devinsky O, Davachi L. Functional Dynamics of Successful Retrieval in the Human MTL Revealed Using Intracranial EEG Recordings. Presented at the 15th Annual Cognitive Neuroscience Meeting; 2008 April 12-15; San Francisco, CA; 2008.
17. Teutonico F, **Carlson C**, LaJoie J, Devinsky O, Weiner HL. Epilepsy Surgery for Children with Tuberous Sclerosis Complex and Multi-focal EEG Findings. Presented at the 62nd Annual Meeting of the American Epilepsy Society; 2008 December 5-9; Seattle, WA; 2008.
18. Silverberg A, Parker K, Doyle W, Devinsky O, **Carlson C**. Utility of Bilateral Subdural Electrode Implantation Following Corpus Callosotomy in Patients with Poorly Localized, Medically Refractory Epilepsy. Presented at the 62nd Annual Meeting of the American Epilepsy Society; 2008 December 5-9; Seattle, WA; 2008.
19. Chan A, Cash SS, Eskandar E, Baker J, **Carlson C**, Devinsky O, Doyle W, Kuzniecky R, Thesen T, Wang C, Marinkovic K, Halgren E. Decoding semantic category from MEG and intracranial EEG in humans. Presented at the 38th Annual Meeting of the Society for Neuroscience; 2008 November 15-19; Washington, D.C.; 2008.
20. Keller C, Cash SS, Narayanan S, Wang C, Kuzniecky R, **Carlson C**, Devinsky O, Sassaroli A, Boas DA, Thesen T, Doyle W, Ulbert I, Halgren E. Intracranial microprobe for evaluating neuro-hemodynamic coupling in unanesthetized human neocortex. Presented at the 38th Annual Meeting of the Society for Neuroscience; 2008 November 15-19; Washington, D.C.; 2008.
21. Koutros JM, Quinn BT, **Carlson C**, Trongnetrpunya A, Halgren E, Thesen T. Tactile Influence Upon the Visual Perceptions of Ambiguous Motion Quartets. Presented at the 10th Annual Multisensory Research Forum; 2009; New York, NY; 2009.
22. DuBois J, **Carlson C**, Kuzniecky R, Devinsky O, Alper K, Blumberg MA, Mikhly M, Starner K, Thesen T. Structural abnormalities in postictal psychosis. Presented at the 63rd Annual Meeting of the American Epilepsy Society; 2009 December 4-8; Boston, MA; 2009.
23. **Carlson C**, DuBois J, Marcuse L, Kuzniecky R, Devinsky O, Boo C, Mikhly M, Blumberg MA, Thesen T. Quantitative magnetic resonance imaging findings in idiopathic generalized epilepsy. Presented at the 63rd Annual Meeting of the American Epilepsy Society; 2009 December 4-8; Boston, MA; 2009.
24. Elliott R, Morsi A, Kalhorn S, Marcus J, Sellin J, Kang M, Silverberg A, **Carlson C**, Geller E, Devinsky O, Doyle W. Vagus nerve stimulation for refractory epilepsy: single surgeon experience of over 700 consecutive operations. Presented at the 63rd Annual Meeting of the American Epilepsy Society; 2009 December 4-8; Boston, MA; 2009.
25. Kalhorn S, Elliott R, **Carlson C**, Moshel Y, Weiner HL, Devinsky O, Doyle W. Vagus nerve stimulation in patients with tuberous sclerosis complex: efficacy of new implantations and association of device inefficacy with subsequent outcome of intracranial epilepsy surgery. Presented at the 63rd Annual Meeting of the American Epilepsy Society; 2009 December 4-8; Boston, MA; 2009.

26. Englot D, Yang L, Hamid H, Danielson N, Bai X, Marfeo A, Yu L, Gordon A, Purcaro M, Motelow J, Agarwal R, Ellens D, Golomb J, Shamy M, Zhang H, **Carlson C**, Doyle W, Devinsky O, Vives K, Spencer D, Spencer S, Schevon C, Zaveri H, Blumenfeld H. Ictal neocortical slow activity and impaired consciousness in temporal lobe epilepsy. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
27. Elliott R, Morsi A, Silverberg A, **Carlson C**, Geller E, Devinsky O, Doyle W. Changes in Efficacy of Vagus Nerve Stimulation (VNS) over Time: Review of 65 Consecutive Patients with Treatment-Resistant Epilepsy Treated with VNS > 10 Years. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
28. Dugan P, **Carlson C**, Menendez J, Flom P, Knowlton R, French J. Utilizing a Decision Tree Model to Predict Outcome for Patients Assessed for Epilepsy Surgery with EEG, MRI and IQ as Factors. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
29. McGill M, Wang X, Devinsky O, Halgren E, **Carlson C**, Kuzniecky R, French J, Thesen T. Decreased amplitude of low frequency BOLD fluctuations in thalamic subregions of patients with idiopathic generalized epilepsy. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
30. Bunch M, Jette N, **Carlson C**, French J. Review of Predictive Factors for Successful Epilepsy Surgery Based on MRI, Routine Electroencephalogram and Clinical Factors. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
31. Butler T, Blackmon K, McDonald C, Barr W, Devinsky O, Kuzniecky R, Quinn BT, DuBois J, **Carlson C**, French J, Hagler D, Halgren E, Thesen T. Orbitofrontal thinning in association with depressive symptoms in patients with extratemporal partial epilepsy. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
32. Thesen T, DuBois J, Quinn BT, **Carlson C**, Halgren E, Wang H, Neilman V, French J, Devinsky O, Kuzniecky R. Automatic Detection of 'MRI-negative' Epileptogenic Cortical Malformations with Surface-Based MRI Morphometry. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
33. Morrison C, Whitman L, **Carlson C**, Becske T, Barr W. Reliability of the Intracarotid Amobarbital Procedure (IAP). Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
34. Ludvig N, Tang H, Baptiste S, Medveczky G, Kral J, Novotney C, Charchaflieh J, French J, Devinsky O, **Carlson C**, Kuzniecky R. Muscimol-delivering subdural pharmacotherapy device for the treatment of intractable neocortical epilepsy: preliminary safety and efficacy studies in freely-behaving bonnet macaques. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
35. Hamberger M, Seidel W, Morrison C, **Carlson C**, Williams A, Mehta A, Klein G, Miozzo M. Neuroanatomical correlates of linguistic processes that comprise naming: Implications for naming difficulty in left TLE. Presented at the 64th Annual Meeting of the American Epilepsy Society; 2010 December 3-7; San Antonio, TX; 2010.
36. Murphy K, Barr W, Kuzniecky R, DuBois J, **Carlson C**, Quinn BT, Blumberg MA, Mikhly M, Devinsky O, McDonald C, Dale A, Halgren E, Thesen T. Phonetically Irregular Word Pronunciation and Cortical Thickness in the Adult Brain. Presented at the 38th Annual International Neuropsychological Society Meeting; 2010 February 3-6; Acapulco, Mexico; 2010.
37. Chan A, Eskandar E, Schomer D, Wang C, Thesen T, Kuzniecky R, Doyle W, Devinsky O, **Carlson C**, Halgren E, Cash SS. Decoding multiscale word and category-specific spatiotemporal representations from intracranial EEG. Presented at the Cosyne 2010 Annual Meeting; 2010 February 25 - March 2; Salt Lake City, UT; 2010.
38. Honey C, Thesen T, Silbert L, Doyle W, **Carlson C**, Devinsky O, Rubin N, Heeger D, Hasson U. Topography of Cortical Time-Scale Selectivity Assessed using Intracranial EEG. Presented at the 16th Annual Meeting of the Organization for Human Brain Mapping; 2010 June 6-10; Barcelona, Spain; 2010.
39. Honey CJ, Thesen T, Donner TH, Silbert LJ, **Carlson C**, Doyle WK, Devinsky O, Rubin N, Heeger DJ, Hasson U. Topography of history-dependent cortical processing mapped using iEEG. Presented at the 40th Annual Meeting of the Society for Neuroscience; 2010 November 13-17; San Diego, CA; 2010.
40. Dugan P, **Carlson C**, French J. Epilepsy Surgery Grading Scale in the Evaluation of Patients with Treatment Resistant Epilepsy. Presented at the 65th Annual Meeting of the American Epilepsy Society; 2011

- December 2-6; Baltimore, MD; 2011.
41. Belcher T, Thesen T, McDonald C, Felsovalyi O, Devinsky O, Kuzniecky R, Halgren E, **Carlson C**. Increased Thalamic Volume in Idiopathic Generalized Epilepsy. Presented at the 63rd Annual Meeting of the American Academy of Neurology; 2011 April 9-16; Honolulu, HI; 2011.
 42. **Carlson C**, Dugan P, French J. Progression to Epilepsy Surgery Following Pre-Surgical Evaluation. Presented at the 65th Annual Meeting of the American Epilepsy Society; 2011 December 2-6; Baltimore, MD; 2011.
 43. Werely J, **Carlson C**, French J, Dugan P, Cahill M, Gazzola DM. Normal Neuroimaging and Epilepsy Treatment: a Retrospective Consecutive Case Series. Presented at the 65th Annual Meeting of the American Epilepsy Society; 2011 December 2-6; Baltimore, MD; 2011.
 44. Whitman L, Bender H, MacAllister W, Barr W, Morrison C, Weinfeld J, Farrell E, Miles D, LaJoie J, **Carlson C**. Rates and Predictors of Successful Intracarotid Amobarbital Testing in Preadolescent Children. Presented at the 39th Annual Meeting of the International Neuropsychological Society; 2011 February 2-5; Boston, MA; 2011.
 45. Bender HA, Whitman LA, **Carlson C**, Morrison CM, MacAllister WS, Weinfeld J, Rodriguez-Rivera M, Vazquez B, Barr WB. The convergent validity of the intracarotid amobarbital procedure in Spanish-speaking surgical candidates. Presented at the 39th Annual Meeting of the International Neuropsychological Society; 2011 February 2-5; Boston, MA; 2011.
 46. Pogash D, Blackmon K, Barr WB, **Carlson C**, DuBois J, Devinsky O, Kuzniecky R, Halgren E, Thesen T. Cortical and Subcortical Structural Correlates of Subclinical Anxiety Symptoms. Presented at the 39th Annual Meeting of the International Neuropsychological Society; 2011 February 2-5; Boston, MA; 2011.
 47. Cogan GB, Thesen T, **Carlson C**, Doyle WK, Devinsky O, Pesaran B. Speech sensory-motor transformations occur bilaterally in the dorsal stream. Presented at the 2011 Annual Meeting of the Society for Neuroscience; 2011 November 12-16; Washington, DC; 2011.
 48. Dykstra AR, Halgren E, Thesen T, **Carlson C**, Doyle W, Madsen JR, Eskandar E, Cash SS. Multiple timescales of acoustic segmentation recorded directly from human cortex. Presented at the 2011 Annual Meeting of the Society for Neuroscience; 2011 November 12-16; Washington, DC; 2011.
 49. Honey CJ, Donner TH, Miller KJ, Thesen T, **Carlson C**, Doyle WK, Devinsky O, Hasson U. Topography of suppressing rhythms in the human cerebral cortex. Presented at the 2011 Annual Meeting of the Society for Neuroscience; 2011 November 12-16; Washington, DC; 2011.
 50. Butler T, Zaborszky L, Talos DM, Dilsiz P, Wang X, McDonald CR, Blackmon K, DuBois J, **Carlson C**, Barr WB, French J, Kuzniecky R, Halgren E, Devinsky O, Thesen T. MRI and Immunohistochemical Evidence of Seto-Hippocampal Cholinergic System Augmentation in Human Temporal Lobe Epilepsy. Presented at the 66th Annual Meeting of the American Epilepsy Society; 2012 November 30 - December 4; San Diego, CA; 2012.
 51. Stefanidou M, **Carlson C**, Friedman D. The Relationship Between Seizure Onset Zone and Ictal Tachycardia: An Intracranial EEG Study. Presented at the 66th Annual Meeting of the American Epilepsy Society; 2012 November 30 - December 4; San Diego, CA; 2012.
 52. Salah A, Dilsiz P, Frecska-Horvath V, Ruppe V, Shoshkes Reiss C, **Carlson C**, Doyle W, Devinsky O, Talos DM. Altered NMDA and AMPA Receptor Subunit Expression in Cortical Tissue from Autism Spectrum Disorders and Treatment-Resistant Temporal Lobe Epilepsy. Presented at the 66th Annual Meeting of the American Epilepsy Society; 2012 November 30 - December 4; San Diego, CA; 2012.
 53. **Carlson C**, Berk T, French J, Kuzniecky R, Dugan P, Gazzola DM, Friedman D. Semiologic Stratification of Generalized Tonic Clonic Seizures and Post-Ictal Electrographic Findings. Presented at the 66th Annual Meeting of the American Epilepsy Society; 2012 November 30 - December 4; San Diego, CA; 2012.
 54. Berk T, Friedman D, Gazzola DM, Dugan P, **Carlson C**, Kuzniecky R, French J. Semiologic Stratification of Generalized Tonic Clonic Seizures. Presented at the 66th Annual Meeting of the American Epilepsy Society; 2012 November 30 - December 4; San Diego, CA; 2012.
 55. Ruppe V, Dilsiz P, Shoshkes Reiss C, **Carlson C**, Zagzag D, Devinsky O, Weiner HL, Talos DM. Developmental Abnormalities in Epileptogenic Tuberous Sclerosis Complex Lesions: A Comparison Analysis of Cortical Tubers and Peri-Tuberal Brain. Presented at the 66th Annual Meeting of the American Epilepsy Society; 2012 November 30 - December 4; San Diego, CA; 2012.
 56. Tambini A, Thesen T, **Carlson C**, Doyle W, Devinsky O, Davachi L. Modulation of post-encoding resting activity using intracranial EEG. Presented at the Society for Neuroscience 2012; 2012 October 13-17; New Orleans, LA; 2012.

57. Cogan GB, Thesen T, **Carlson C**, Doyle WK, Devinsky O, Pesaran B. Sensory-motor classifications of speech: Selectivity at the interface between speech perception and production. Presented at the Society for Neuroscience 2012; 2012 October 13-17; New Orleans, LA; 2012.
58. Dilsiz P, Mikolaenko I, **Carlson C**, Doyle WK, Devinsky O, Talos DM. Comparison analysis of glutamate receptor subunit expression in neocortical tissue from autism versus treatment-resistant chronic epilepsy patients. Presented at the Society for Neuroscience 2012; 2012 October 13-17; New Orleans, LA; 2012.
59. Dugan P, French J, **Carlson C**. Surgical Grading Scale in the Evaluation of Patients with Treatment Resistant Epilepsy. Presented at the 65th Annual Meeting of the American Academy of Neurology; 2013 March 16-23; San Diego, CA; 2013
60. Gazzola DM, Thawani S, Agbe-Davies O, Sabharwal P, Berk T, **Carlson C**. Factors Impacting Epilepsy Monitoring Unit Length of Stay. Presented at the 67th Annual Meeting of the American Epilepsy Society; 2013 December 6-10; Washington DC; 2013
61. Thawani S, **Carlson C**, Agbe-Davies O, Sabharwal P, Berk T, Gazzola DM. Time to Target Event: Pre-Surgical versus Non-Surgical Admissions and Impact on Epilepsy Monitoring Unit Length of Stay. Presented at the 67th Annual Meeting of the American Epilepsy Society; 2013 December 6-10; Washington DC; 2013
62. Ahmed B, Brodley C, **Carlson C**, Kuzniecky R, Devinsky O, French J, Thesen T. Detection of Structural Brain Abnormalities in Single Patients: Focal Epilepsy. Presented at the International Conference on Basic and Clinical Multimodal Imaging; 2013 September 5-8; Geneva, Switzerland; 2013.
63. Dorland N, Lavingia J, **Carlson C**, Raghavan M. Prevalence of Ictal Infraslow Potentials (IISPs) in Scalp EEG. Presented at the 68th Annual Meeting of the American Epilepsy Society; 2014 December 5-9. Seattle, WA; 2014
64. Vuppala A, Anderson C, **Carlson C**, Mueller W, Raghavan M. Comparison of MEG and intracranial EEG findings in non-lesional drug-resistant partial epilepsy. 69th Annual Meeting of the American Epilepsy Society; 2015 December 4-8; Philadelphia, PA; 2015.
65. Lavingia J, Book D, **Carlson C**. Quality Improvement Project on Resident Hand-Offs Using Structured Templates. 68th Annual Meeting of the American Academy of Neurology; 2016 April 14-21; Vancouver, BC.
66. Lavingia J, Dorland N, Anderson CT, **Carlson C**, Raghavan M. Prevalence of Ictal Infraslow Potentials (IISPs) in Scalp Recorded Video-EEG Recordings and Their Correlation with Various Seizure and Epilepsy Variables. 68th Annual Meeting of the American Academy of Neurology; 2016 April 14-21; Vancouver, BC.
67. Hill T, Rubin BA, Tyagi V, Theobald J, Silverberg A, Miceli M, Dugan P, **Carlson C**, Doyle W. Outcomes of Bilateral Diagnostic Intracranial EEG in Non-Lateralized Treatment Resistant Epilepsy. 68th Annual Meeting of the American Academy of Neurology; 2016 April 14-21; Vancouver, BC.
68. Thompson S, Stout J, Anderson CT, **Carlson C**, Allen L, Raghavan M. Laterality of epileptic networks can significantly influence MEG auditory evoked responses. 70th Annual Meeting of the American Epilepsy Society & 6th Biennial North American Regional Epilepsy Congress; 2016 December 1-6; Houston, TX.
69. Raghavan M, Li Z, **Carlson C**, Anderson CT, Stout J, Sabsevitz D, Swanson S, Binder J. MEG language lateralization in partial epilepsy using dSPM of auditory evoked responses. 70th Annual Meeting of the American Epilepsy Society & 6th Biennial North American Regional Epilepsy Congress; 2016 December 1-6; Houston, TX.
70. Lavingia J, Stout J, Dorland N, Anderson CT, **Carlson C**, Raghavan M. Source modeling of ictal infraslow potentials (IISPs) in scalp EEG can predict seizure onset zones. 2017 Annual Meeting of the American Clinical Neurophysiology Society; 2017 February 8-12; Phoenix, AZ.
71. Binder J, Conant L, Anderson CT, Birn R, **Carlson C**, DeYoe EA, Fernandino L, Gross W, Hermann B, Humphries C, Hwang G, Koch K, Kraegel P, Maganti R, Mathis J, McMillan T, Meyerand M, Nair V, Nencka A, Pabhakaran V, Raghavan M, Rozman M, Ustine C, Zhao G. Cortical Thickness Correlates of Social Cognition Abilities in Temporal Lobe Epilepsy. 69th Annual Meeting of the American Academy of Neurology; April 22-28, 2017; Boston, MA.
72. Helfand AI, Binder JR, Swanson SJ, Sabsevitz DS, Anderson CT, **Carlson C**, Raghavan M. Regional Reductions in Grey Matter Volume with Longer Disease Duration in Left Temporal Lobe Epilepsy. 71st Annual Meeting of the American Epilepsy Society; 2017 December 1-5; Washington, DC
73. Pankratz J, Sasai S, Boly M, Struck AF, Nair VA, Birn R, Maganti R, Raghavan M, Felton E, Hwang G, Dabbs K, Zhao G, DeYoe E, McMillan TM, Humphries C, Rozman ME, Ustine C, Shah U, Nencka A,

- Conant L, Mathis J, Almane DN, **Carlson C**, Anderson CT, Hermann B, Prabhakaran V, Binder JR, Meyerand B. Mesoscale reorganization of resting state fMRI connectivity in patients with temporal lobe epilepsy. 71st Annual Meeting of the American Epilepsy Society; 2017 December 1-5; Washington, DC
74. Swanson SJ, Conant LL, Rozman M, Raghavan M, Mueller WM, Allen LS, Gross WL, Anderson CT, **Carlson C**, Humphries CJ, Schwartz L, Busch RM, Lowe MJ, Langfitt JT, Tivarus M, Drane DL, Loring DW, Jacobs ML, Morgan VL, Szaflarski J, Bonilha L, Binder JR. Changes in Definition Naming for Common and Proper Nouns After Left Anterior Temporal Lobectomy. 72nd Annual Meeting of the American Epilepsy Society; 2018 November 30-December 3; New Orleans, LA.
75. Pankratz J, Shuntaro S, Struck A, Nair V, Birn R, Dabbs K, Mathis J, Hwang G, Maganti R, Felton EA, DeYoe E, Humphries CJ, Ustine C, Almane D, McMillan T, Nencka A, Conant LL, **Carlson C**, Anderson CT, Hermann B, Prabhakaran V, Binder JR, Meyerand B, Boly M. Increased Short-Range Functional MRI Connectivity in Limbic Network Correlates With Seizure Frequency and Cognitive Impairment in Temporal Lobe Epilepsy Patient. 72nd Annual Meeting of the American Epilepsy Society; 2018 November 30-December 3; New Orleans, LA.
76. Allen LS, Klink K, Schroeter K, **Carlson C**. Emergency Department Visits After Receiving Psychogenic Non-Epileptic Events (PNEE) as a Diagnosis. 72nd Annual Meeting of the American Epilepsy Society; 2018 November 30-December 3; New Orleans, LA.
77. Bauer PM, Swanson SJ, Sabsevitz DS, Humphries CJ, Rozman M, Raghavan M, Mueller WM, Allen LS, Conant LL, Gross WL, Anderson CT, **Carlson C**, Schwartz L, Busch RM, Lower MJ, Langfitt JT, Tivarus M, Drane DL, Loring DW, Jacobs ML, Morgan VL, Szaflarski J, Bonilha L, Binder JR. Hippocampal Volume Is Predictive of Story Memory But Not Word List Memory Decline Following Left Anterior Temporal Lobe Surgery. 72nd Annual Meeting of the American Epilepsy Society; 2018 November 30-December 3; New Orleans, LA.
78. Schloemer F, Helms A, **Carlson C**. You Never Forget Your First? Impact of Interview Timing on Final Rank Order. 71st Annual Meeting of the American Academy of Neurology; May 4-11, 2019; Philadelphia, PA.
79. Champeau D, **Carlson C**, Anderson CT, Thompson S, Bauer P, Allen L, Stout J, Swason SJ, Binder JR, Lew S, Mueller W, Vuppala A, Raghavan M. Utility of MEG in Evaluations for Epilepsy Surgery: A 10-year Review from a Single Epilepsy Center. 73rd Annual Meeting of the American Epilepsy Society; December 6-10, 2019; Baltimore, MD
80. Billakota S, Becker L, Dugan P, **Carlson C**, French JA. Epilepsy Surgery Grading Scale Predicts Early and Late Recurrence of Seizures After Epilepsy Surgery. 73rd Annual Meeting of the American Epilepsy Society; December 6-10, 2019; Baltimore, MD
81. Youssef P, **Carlson C**, Anderson CT, Thompson S, Bauer P, Allen L, Swanson SJ, Binder JR, Mueller W, Lew S, Noviaty I, Raghavan M. Surgical Outcomes and Intracranial EEG Findings in Drug-Resistant Non-Lesional Epilepsy with Temporal Lobe Features on Scalp Video-EEG. 73rd Annual Meeting of the American Epilepsy Society; December 6-10, 2019; Baltimore, MD
82. Binder JR, Pillay SA, Tong JQ, Gross WL, Mueller W, Raghavan M, Conant LL, Allen L, Anderson CT, **Carlson C**, Fernandez L, Humphries CJ, Schwartz L, Busch RM, Langfitt JT, Tivarus M, Loring D, Szaflarski JP, Morgan VL, Bonilha L, Swanson SJ. Anterior Temporal Lobe Regions Critical for Picture Naming: Voxel-Based Lesion-Symptom Mapping in Patients Undergoing Left Temporal Lobe Resection. 73rd Annual Meeting of the American Epilepsy Society; December 6-10, 2019; Baltimore, MD
83. Sandrone S, Berthaud J, **Carlson C**, Cios J, Dixit N, Farheen A, Kraker J, Owens J, Patino G, Sarva H, Weber D, Schneider L. Strategic considerations for applying the flipped classroom to neurology education. 72nd Annual Meeting of the American Academy of Neurology; April 25-May 1, 2020; Toronto, Canada. In-person meeting cancelled due to COVID-19.
84. Sandrone S, Berthaud J, **Carlson C**, Cios J, Dixit N, Farheen A, Kraker J, Owens J, Patino G, Sarva H, Weber D, Schneider L. Flipped classroom in neurology: principles, practices, and perspectives. 72nd Annual Meeting of the American Academy of Neurology; April 25-May 1, 2020; Virtual Meeting. (In person Toronto, Canada cancelled due to COVID-19).
85. Pandya V and **Carlson C**. Anti-Seizure Drug Usage Prior to Pre-Surgical Evaluation. 74th Annual Meeting of the American Epilepsy Society; December 4-8, 2020; Virtual Meeting (Seattle, WA in person cancelled due to COVID19).
86. Youssefzadeh V, Stout J, Shah-Basak P, Ustine C, Humphries C, Gross WL, Mathis J, Conant L, Awe E, Allen L, DeYoe EA, Nencka A, **Carlson C**, Anderson CT, Almane D, Maganti R, Hermann B,

- Prabhakaran V, Raghavan M, Binder JR. 74th Annual Meeting of the American Epilepsy Society; December 4-8, 2020; Virtual Meeting (Seattle, WA in person cancelled due to COVID19).
87. Kangas K, Oleksy A, Janecek J, Pillay S, Umfleet L, Raghavan M, **Carlson C**, Anderson C, Lew S, Swanson S J. Language and memory outcome after frontal or temporal resection for epilepsy. 2023. International Neuropsychological Society. San Diego, CA.
 88. Sawalha A, Anderson CT, **Carlson C**. Responsive neurostimulation device use in patients with epilepsy and psychogenic non-epileptic events. Case report and Healthcare expenditure analysis related to neuromodulation therapy in Epilepsy patients. Annual Meeting of the American Academy of Neurology. April 22-28, 2023. Boston, MA.
 89. Sawalha A, Anderson CT, **Carlson C**. Responsive neurostimulation device use in patients with epilepsy and psychogenic non-epileptic events. Case report and Healthcare expenditure analysis related to neuromodulation therapy in Epilepsy patients. Annual Meeting of the American Epilepsy Society. December 1-5, 2023. Orlando, FL.
 90. Pilet J, Luo T, **Carlson C**, Anderson C, Mueller W, Lew S, Beardsley S, Raghavan M. Interictal ECoG Features Derived from Functional Connectivity Improve the Prediction of Seizure Onset Zones Using Machine Learning. Annual Meeting of the American Epilepsy Society. December 1-5, 2023. Orlando, FL.
 91. Shah-Basak P, Youssofzadeh V, Ustine C, Anderson C, **Carlson C**, Gross W, Humphries C, Stout J, Meyerand M, Hermann B, Conant L, Binder J, Raghavan M. Theta-band hyperconnectivity is negatively correlated with cognition in left temporal lobe epilepsy. Annual Meeting of the American Epilepsy Society. Platform presented by P Shah-Basak. December 1-5, 2023. Orlando, FL.
 92. Castro AL, Treat R, Malinowski M, Fairbanks S, Simenz C, Willie C, Zundel T, Georgeades C, Francis J, **Carlson C**, Longo J, Ovide J, De Santis J. A Community Outreach-Based Healthcare Disparities Curriculum Integrated into Professional Development for Graduate Medical Education Trainees: A Mixed-Methods Analysis of Pilot Year One, Association of American Medical Colleges Learn Serve Lead Conference, Atlanta, GA, 11/08/2024 - 11/12/2024.
 93. Chikara RK, Youssofzadeh V, Heffernan J, Stout J, Shah-Basak P, Ustine C, Humphries C, Mathis J, Conant L, Gross WL, **Carlson C**, Anderson CT, Hermann B, Meyerand B, Bock E, Jaiswal A, Binder JR, Raghavan M. Determining Hemispheric Language Dominance using MEG Evoked Responses: Validation against fMRI. Annual Meeting of the American Epilepsy Society. December 6-10, 2024. Los Angeles, CA
 94. Youssofzadeh V, Chikara RK, Heffernan J, Stout J, Shah-Basak P, Ustine C, Humphries C, Mathis J, Conant L, Gross WL, **Carlson C**, Anderson CT, Hermann B, Meyerand B, Bock E, Jaiswal A, Binder JR, Raghavan M. Determining Hemispheric Language Dominance from MEG Beta Power Modulations: Validation against fMRI. Annual Meeting of the American Epilepsy Society. December 6-10, 2024. Los Angeles, CA