# A. LeBRON PAIGE, MD, MSBME

## CURRICULUM VITAE

### EDUCATION

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|---|---|---|
| M.D. | The University of Miami School of Medicine<br>Miami, Florida | 1998 |
| M.S. | The University of Miami<br>Biomedical Engineering<br>Coral Gables, Florida | 1994 |
| B.S. | The University of Tennessee at Knoxville<br>Digital Computer Systems Design Concentration<br>Engineering Co-Op Program<br>Knoxville, Tennessee | 1985 |
| B.A. | The University of Tennessee at Knoxville<br>Double Major: Chemistry & Biology<br>Knoxville, Tennessee | 1982 |

### CLINICAL TRAINING

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|---|---|
| Fellow (Epilepsy & Clinical Neurophysiology)<br>Yale University School of Medicine<br>New Haven, Connecticut | 2002-2004 |
| Chief Resident (General Neurology)<br>Yale University School of Medicine<br>New Haven, Connecticut | 2001-2002 |
| Resident (General Neurology)<br>Yale University School of Medicine<br>New Haven, Connecticut | 1999-2002 |
| Intern (Internal Medicine)<br>Yale University School of Medicine<br>New Haven, Connecticut | 1998-1999 |

## PROFESSIONAL EXPERIENCE

Consultant – Neurology, Injury Causation — 2018-Present
Biodynamic Research Corporation, San Antonio, Texas

Associate Professor - Neurology — 2023-Present
The Ohio State College of Medicine, Columbus, Ohio
Epileptologist - OSU Comprehensive Epilepsy Center
Director - OSU Hospital EEG Laboratory
Director - OSU Hospital Epilepsy Monitoring Unit (EMU)
Affiliate Faculty - NeuroTech Institute
Affiliate Faculty - Center for Cognitive and Brain Sciences

Epileptologist — 2021-2022
Covenant Health System, Knoxville, Tennessee
Director - Fort Sanders Regional Epilepsy Center
Director - Fort Sanders Regional Hospital EEG Laboratory

Epileptologist — 2016-2017
Erlanger Health System, Chattanooga, Tennessee
Director - UT Erlanger Epilepsy Center
Director - UT Erlanger Hospital EEG Laboratory

Associate Professor - Neurology — 2012-2016
University of Iowa College of Medicine, Iowa City, Iowa
Director - University of Iowa EEG & Evoked Potentials Laboratory
Director - The University of Iowa Epilepsy Fellowship Program

Assistant Professor – Neurology & Biomedical Engineering, — 2004-2012
University of Alabama at Birmingham (UAB) School of Medicine
Director - UAB Hospital EEG Laboratories
Director - UAB Hospital Critical Care EEG Service
Director - UAB Outpatient Epilepsy Services, Kirklin Clinic

Research Associate — 1993-1994
Retinitis Pigmentosa Center, Bascom Palmer Eye Institute
The University of Miami School of Medicine, Miami, Florida

Systems Design Engineer — 1990-1991
Pentastar Electronics, Inc., Huntsville, Alabama

Lead Engineer & Digital Design Engineer 1987-1990
Spacecraft Integrators (SCI Technology), Inc., Huntsville, Alabama

Experimental Systems Engineer 1985-1987
Pratt & Whitney Aircraft Company, West Palm Beach, Florida

## APPOINTMENTS/QUALIFICATIONS

Affiliate Faculty 2023-Present
Center for Cognitive and Brain Sciences
The Ohio State University College of Medicine
Columbus, Ohio

Affiliate Faculty 2023-Present
NeuroTech Institute
The Ohio State University College of Medicine
Columbus, Ohio

Clinical Adjunct Faculty 2021-2023
Lincoln Memorial University

Clinical Adjunct Professor 2019-Present
USAF School of Aerospace Medicine

Clinical Instructor 2016-2017
The University of Tennessee at Chattanooga

## BOARD AND SUB-SPECIALTY CERTIFICATIONS

American Board of Psychiatry & Neurology 2020

American Board of Clinical Neurophysiology 2010

American Society of Neuroimaging 2006

## PROFESSIONAL REGISTRATIONS

Ohio Medical Board 2023-Present
Medical License #35.148429

Florida Medical Doctor Expert Witness Certification 2023-Present
Certificate #MEEW6713

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| New York Board of Medicine<br>Medical License #303951 | 2020-2023 |
| Tennessee Board of Medical Examiners<br>Medical License #53983 | 2016-2024 |
| Iowa Board of Medical Examiners<br>Medical License #40146 | 2012-2024 |
| Alabama Board of Medical Examiners<br>Medical License #26213 | 2004-2012 |
| Connecticut Medical Examining Board<br>Medical License #040844 | 2002-2004 |
| Pennsylvania Board of Medicine<br>Medical License #MD0737874L | 2001-2022 |

## PROFESSIONAL AFFILIATIONS

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| Association of the Advancement of Automotive Medicine | 2018 |
| Biomedical Engineering Society | 2018 |
| Society of Automotive Engineers | 2018 |
| American Epilepsy Society | 2000 |
| American Academy of Neurology | 2000 |
| American Clinical Neurophysiology Society | 2000 |

## PROFESSIONAL ACTIVITIES

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| 63rd Stapp Car Crash Conference<br>San Antonio, Texas | 2019 |
| Biomedical Engineering Society Annual Meeting<br>Philadelphia, Pennsylvania | 2019 |
| Traffic Crash Reconstruction I & II | 2018 |
| Traffic Crash Investigation II<br>Northwestern University Center for Public Safety<br>Evanston, Illinois | 2018 |

## SERVICE, ACHIEVEMENT, AND AWARDS

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| Member, Board of Medical Advisors<br>Empowering Epilepsy, Cleveland, Ohio | 2026-Present |
| Grand Award Judge<br>Regeneron International Science and Engineering Fair (ISEF) | 2025 |
| Member, Professional Advisory Board<br>Epilepsy Foundation of Ohio | 2023-Present |
| Member, Professional Advisory Board<br>Epilepsy Foundation of East Tennessee | 2021-2023 |
| Judge, Annual Biomedical Engineering Society<br>Case Competition – The University of Texas,<br>Department of Biomedical Engineering, Austin, Texas | 2018, 2019, 2020 |
| Fellow, American Epilepsy Society (FAES) | 2016 |
| Member, Board of Directors,<br>Midwest YouCan Foundation | 2015-Present |
| Medical Director & on-site "Camp Doc"<br>Camp YouCan, Omaha, Nebraska | 2014-Present |
| Member, ABRET Board of Directors<br>American Board of Registry in ElectroneurodiagnosticTechnology | 2013-2019 |
| Chair, Ethics & Discipline Committee<br>American Board of Registry in Electroneurodiagnostic Technology | 2014-2019 |
| Member, Iowa Community Council<br>Epilepsy Foundation of Iowa | 2012-2016 |
| Member, Board of Directors, Glenwood Autism and<br>Behavioral Health Center, Birmingham, Alabama | 2011-2012 |
| Chair, Professional Advisory Board<br>Member, Executive Committee, Board of Directors<br>Epilepsy Foundation of Alabama | 2010-2012<br>2009-2012 |

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| Coordinator, UAB Neuroengineering Conference | 2008-2012 |
| Merritt-Putnam National Clinical Research Fellowship<br>Awarded by the Epilepsy Foundation of America | 2002-2003 |
| American Epilepsy Society Young Investigator Award<br>54th Annual AES Meeting, Los Angeles, California | 2000 |
| Awardee, Best Student Research Presentation<br>"Rapid Acquisition and Tracking of Evoked Potentials by Two-Dimensional Spectral Filtering", 6th Annual IEEE Symposium on Computer-Based Medical Systems, Ann Arbor, Michigan | 1993 |
| President, University of Miami Student Section, Biomedical Engineering Society (BMES) | 1992-1994 |

## PRESENTATIONS AND INVITED LECTURES

Invited Lecture, Stratus Neuro EEG-U, part of an online year-long, ASET-accredited CEU program of monthly lectures for EEG technologists, "Epilepsy Surgery: Techniques, Outcomes, and Patient Benefits," March 20, 2025.

Grand Rounds, Department of Neurology, Medical College of Georgia at Augusta University, "Seizure Prediction in Epilepsy: An Overview & Update," Augusta, GA, February 3, 2023

Grand Rounds, Department of Neurology, Medical College of Georgia at Augusta University, "Seizure Prediction in Epilepsy: An Overview & Update," Augusta, GA, February 3, 2023

Grand Rounds, Department of Internal Medicine, LeConte Hospital, Covenant Health System, "Seizures & Epilepsy: An Update for General Practitioners," Sevierville, TN, January 20, 2022

Invited Lecture, Michigan Society of Electroneurodiagnostic Technologists (MSET), "Prion Disease: What EEG Technologists Need to Know," Annual Fall Conference, East Lansing, MI, October 19, 2019

Invited Lecture, American Society of Electroneurodiagnostic Technologists (ASET), "Non-Epileptic Events in the Epilepsy Monitoring Unit," 60th Annual Meeting, Kansas City, MO, August 15, 2019

Invited Lecture, Quality Living, Inc. Medical Staff Update Meeting, "Epilepsy & Seizures in the Rehabilitation Environment," (QLI), Omaha, NE, June 6, 2018

Invited Lecture, UT-Chattanooga College of Medicine, Neurology Grand Rounds. "Continuous EEG Monitoring of TBI in the ICU – The Literature," Erlanger Hospital, Chattanooga, TN, November 16, 2017

Invited Lecture, 2nd Annual Erlanger Neuroscience Acute Care Symposium. "Diagnosis & Treatment of TBI-Related Seizures in the Acute Care Setting," Chattanooga Convention Center, TN, October 20, 2017

Invited Lecture, Chattanooga Area Brain Injury Association Annual Meeting. "Is it a Seizure or a Spell after TBI?" Chattanooga, TN, April 26, 2017

Invited Lecture, American Society of Electroneurodiagnostic Technologists (ASET), EEG Boot Camp. "EEG in Traumatic Neurological Disorders and Coma," UAB Hospital, Birmingham, AL, April 23, 2017

Invited Lecture, Vanderbilt Neurodiagnostic Technology Program. "New Diagnostic Methods in Pre-surgical Evaluation: Stereo EEG," Vanderbilt University School of Medicine, Nashville, TN, November 29, 2016

Invited Lecture, First Annual Acute NeuroCare Symposium & Expo. "Epilepsy in the Emergency Setting – Recognition and Response," Chattanooga Convention Center, Chattanooga, TN, November 4, 2016

Grand Rounds, Neurology Division, Ochsner Health System. "Less Invasive Surgical Options in Refractory Epilepsy," New Orleans, LA, July 2015

Genesis Hospital Health Minute – Epilepsy, 60-second public service announcement regarding the recognition and response to epileptic seizures, appearing on the Fox Network affiliate in Davenport, IA, February 2015.

Grand Rounds, Department of Neurology, Mary Greeley Medical Center. "Epilepsy Diagnosis & Treatment: Five New Things Every Physician Should Know," Ames, IA, November 5, 2014.

Annual Neurology Update, Iowa Neurological Association Annual Meeting, "New Treatment Options in Refractory Epilepsy & Better Utilization of Existing Options," Iowa City, IA, October 19, 2013

Grand Rounds, Department of Neurology, Genesis Medical Center. “Making a case for Epilepsy Surgery,” Davenport, IA, March 27, 2013
Biomedical Engineering Society (BMES) Seminar, Georgia Institute of Technology, Department of Biomedical Engineering, “New Engineering Solutions to the Challenges of Surgical Treatment for Epilepsy,” Whitaker Auditorium, Atlanta, GA, Nov. 8, 2011

Guest Speaker, Howard Hughes Medical Institute (HHMI) Summer Research Seminar, “The Scientific and Clinical Basis of Epilepsy Surgery,” UAB Department of Neuroscience, Birmingham, AL, June 11, 2008

Southern EEG and Epilepsy Society (SEEGS) Annual Meeting, “Clinical Methods in Distinguishing Primary Generalized Epilepsy from Frontal Lobe Epilepsy,” Naples, FL, May 13, 2006

Grand Rounds, Department of Internal Medicine, UAB Montgomery, “The Past, Present, and Future of Electrical Brain Stimulation for the Treatment of Focal Epilepsy,” Montgomery, AL, November 17, 2005

Biomedical Engineering Society (BMES) Seminar, University of Miami Department of Biomedical Engineering, “Functional Brain Imaging in Epilepsy Pre-Surgical Evaluation,” Coral Gables, FL, September 13, 2003

Grand Rounds, Department of Neurology, Yale University School of Medicine, ”Cortical-Subcortical Network Interaction in Temporal Lobe Epilepsy,” Brady Auditorium, New Haven, CT, May 15, 2003

Grand Rounds, Department of Neurology, Yale University School of Medicine, “Adult-Onset Rasmussen’s Syndrome: A Case Study,” Fitkin Amphitheater, New Haven, CT, January 2, 2001

Podium Presentation, “A New 2-D Technique for Rapid Acquisition and Tracking of Evoked Potentials”, 25th Eastern Student Research Forum, University of Miami School of Medicine, Miami, FL, March 21, 1997

## PUBLICATIONS AND ABSTRACTS

### Patents:

Arjuna Madanayake, Satheesh Venkatakrishnan, Kasun Karunanayake, Nimasha Silva, A. LeBron Paige, Kannan Athreya, Wireless Radio-Sensing with Signal Processing and AI-Perception for Epileptic-Seizure Detection, United States Patent Application No. 63/879,733, Filed: September 11, 2025

Paige A. L., Higgins A., McCarthy C., Sharp A., A Seizure Identification Systems, Associated Devices & Methods, United States Patent Application No. 62/137,662, Filed: March 24, 2015

## Book Chapters:

Paige, A. L. and A. E. Cavanna, Brain Imaging and Alterations of Consciousness in Epilepsy: Generalized Tonic-clonic Seizures, in *The Neuroimaging of Consciousness*, Andrea E. Cavanna, Andrea Nani, Hal Blumenfeld, and Steven Laureys, Editors, Springer-Verlag: Berlin (2013).

Kim, H., Paige, A. L., Knowlton, R. C., Advances in Structural and Functional Neuroimaging: How Are These Guiding Epilepsy Surgery?, in *Epilepsy: Mechanisms, Models, and Translational Perspectives*, J.M. Rho, R. Sankar, and J.E. Cavazos, Editors, CRC Press: Boca Raton, Florida (2010).

## Journal Articles:

Davis, M. C., Broadwater, D. R., Mathews, W. H., Paige, A. L., DeWolfe, J. D., Elgavish, R. A., Riley, K. O., Ver Hoef, L. W., Statistical Modeling of ICEEG Features that Determine Resection Planning, *Clinical Neurology & Neurosurgery*, 147: pp. 18-23, (2016).

Ver Hoef, L.W., Paige, A. L., Riley, K. O., Cure, J., Soltani, M., Williams, F. B., Kennedy, R., Szaflarski, J. P., Knowlton, R. C., Evaluating hippocampal internal architecture on MRI: inter-rater reliability of a proposed scoring system, *Epilepsy Research*, 106(1-2): pp. 146-54, (2013).

Varghese, G. I., Purcaro, M. J., Motelow, J. E., Enev, M., McNally, K. A., Levin, A. R., Hirsch, L. J., Tikofsky, R., Paige, A. L., Zubal, I. G., Spencer, S. S., Blumenfeld (2009). Clinical use of ictal SPECT in secondarily generalized tonic-clonic seizures. *Brain*,132(Pt 8): pp. 2102-13, (Aug 2009)

Knowlton, R. C., Razdan, S. N., Limdi, N., Elgavish, R. A., Killen, J., Blount, J., Burneo, J. G., Ver Hoef, L., Paige, A. L., Faught, E. Kankirawatana, P., Riley, K., Kuzniecky, R., The Effect of epilepsy magnet source imaging on intracranial electrode placement, *Annals of Neurology*, 65(6): pp.716-23, (2009)

Blumenfeld H., Varghese G., Purcaro M. J., Motelow J. E., Enev M., McNally K. A., Levin A. R., Hirsch L., Tikofsky R., Zubal I. G., Paige A. L., Spencer S. S., Cortical and subcortical networks in human secondarily generalized tonic-clonic seizures. *Brain,* 132(4): pp. 999-1012, (April 2009)

Knowlton, R. C., Elgavish, R. A., Limdi, N., Bartolucci, A., Ojha, B., Blount, J., Burneo, J.G., Ver Hoef, L., Paige, A. L., Faught, R. E., Kankirawatana, R., Riley., Kuzniecky, R., Functional Imaging: II. Prediction of epilepsy surgery outcome, *Annals of Neurology*, 64(1): pp. 35-41 (2008)

Knowlton, R. C., Elgavish, R. A., Limdi, N., Bartolucci, A., Ojha, B., Blount, J., Burneo, J. G., Ver Hoef, L., Paige, A. L., Faught, R. E., Kankirawatana, R., Riley., Kuzniecky, R., Functional Imaging: I. Predictive value of intracranial electroencephalography, *Annals of Neurology*, 64(1): pp. 25-34, (2008)

Griffith H. L., Martin R. C., Andrews S., Paige A. L., Ware J., Faught R. E., Welty T., The Safety and Tolerability of Galantamine in Patients with Epilepsy and Memory Difficulties, *Epilepsy & Behavior*, 13(2): pp. 376–380, (August 2008)

Richardson E. J., Griffith H. R., Martin R. C., Paige A. L., Stewart C. C., Jones J., Hermann B. P., Seidenberg M., Structural and functional neuroimaging correlates of depression in temporal lobe epilepsy, *Epilepsy & Behavior*, 10(2): pp. 242-249, (March 2007)

Limdi N. A., Knowlton R. K., Cofield S., Ver Hoef L., Paige A. L., Dutta S., Faught E., Safety of rapid intravenous loading of valproic acid (VPA), *Epilepsia*, 48(3): pp. 478-483, (March 2007)

McNally K. A., Paige A. L., Varghese G., Zhang H., Novotny E. J., Spencer S. S., Zubal I. G., Blumenfeld H., Localizing value of Ictal-interictal SPECT Analysis using SPM (ISAS), *Epilepsia (Cover Article)*, 46(9): pp.1450–1464, (September 2005)

Blumenfeld H., McNally K. A., Vanderhill S. D., Paige A. L., Chung R., Davis K., Norden A. D., Stokking R., Studholme C., Novotny E. J., Zubal I. G., Spencer S. S., Positive and negative network correlations in temporal lobe epilepsy. *Cerebral Cortex*, 14(8): pp. 892-902, (2004)

Paige A. L., Özdamar Ö., Delgado R. E., Two-Dimensional spectral processing of sequential evoked potentials, *Journal of Medical & Biological Engineering & Computing*, 34; pp. 239-243, (1996)

## Abstracts:

O. Avidor, D. Kanjilal. L. Paige, J. Singh, Time Course of Delays to Adult Epilepsy Surgery: a Single-Center Experience, accepted for presentation at the 78$_{th}$ Annual Meeting of the American Epilepsy Society. Los Angeles, CA, December 6-10, 2024

Berg M., Privitera M., Diaz F., Dworetzky B., Elder E., Gidal B., Krebill R., McBee N., Pollard J., Paige L., Szaflarski J., Bolger P., Welty T., EQUIvalence among GENeric AEDs (EQUIGEN): Single-dose study, Proceedings of the 69th Annual Meeting of the American Epilepsy Society. Philadelphia, Pennsylvania, 2015

Eliza S. A., Paige A. L., Haider M. R., A Field-Referenced Surface Electrode for Biosignal Detection, Proceedings of the 8th International Conference on Electrical and Computer Engineering (ICECE 2014), Dhaka, Bangladesh, December 2014

Berg M., Diaz F., Bolger P., Dworetzky B., Elder E., Gidal B., Jiang W., Krebill R., McBee N., Paige A.L., Pollard J., Szaflarski J., Welty T., Privitera M., Equivalence Among Generic AEDs (EQUIGEN) - Single-Dose Study, Proceedings of the 68th Annual Meeting of the American Epilepsy Society. Seattle, Washington, 2014

Eliza S.A., Paige A.L., Haider M.R., A Low-Cost Field-Addressable Surface Electrode Array for Biosignal Detection, 8th Workshop on Frontier Electronics (WOFE-2013), San Juan, Puerto Rico, 2013

Paige A., Miller J., Lee K., Ojha B., Kar J., Knowlton R., ISAS Inter-Rater Agreement is Superior to SISCOM and raw SPECT on Measures of Localization and Diagnostic Conclusiveness, Proceedings of the 64thAnnual Meeting of the American Epilepsy Society. San Antonio, Texas, 2010

Paige A., Knowlton R., Howell J., Kankirawatana K., The Utility of Ictal-Interictal SPECT Analyzed by SPM (ISAS) in Pediatric Patients, Proceedings of the 60th Annual Meeting of the American Epilepsy Society, San Diego, California, 2006

Paige A., McNally K., Zubal G., Novotny E., Spencer S., Blumenfeld H., Importance Of True Ictal SPECT In Localizing Temporal And Extra-Temporal Epilepsy, Proceedings of the 58th Annual Meeting of the American Epilepsy Society, New Orleans, Louisiana, 2004

Paige A., Bradley C., Chang D., Studholme C., Stokking R., Norden A, Zubal G., Spencer S., Blumenfeld H., SPECT Ictal-Interictal Difference Imaging Reveals Thalamic and Brainstem Reticular Formation Involvement in Seizures, *Epilepsia* 41 (Suppl. 7): 68, 2000

Paige A., Özdamar Ö., Delgado R., Rapid Estimation of ABR Latency-Intensity Plots Using Two-Dimensional Spectral Filtering, Association for Research in Otolaryngology (ARO), Mid-Winter Meeting, St. Petersburg Beach, Florida. February 2-6, 1997 (Poster Session CC5-#837)

## EDITORIAL BOARDS & REVIEW COMMITTEES

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