

## **A. LeBRON PAIGE, MD, MSBME**

### **CURRICULUM VITAE**

#### **EDUCATION**

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

#### **CLINICAL TRAINING**

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

## PROFESSIONAL EXPERIENCE

Consultant Biodynamic Research Corporation San Antonio, Texas	2018-Present
Epileptologist Erlanger Health System Director - UT Erlanger Epilepsy Center Director - UT Erlanger Hospital EEG Laboratory Clinical Instructor - University of Tennessee at Chattanooga  College of Medicine, Chattanooga, Tennessee	2016-2017
Associate Professor - Neurology University of Iowa College of Medicine Iowa City, Iowa Director - UIHC EEG & Evoked Potentials Laboratory Director - Epilepsy Fellowship Program	2012-2016
Assistant Professor - Neurology, Biomedical Engineering, and Electrical & Computer Engineering University of Alabama at Birmingham (UAB) School of Medicine Director - EEG Laboratories at UAB Hospital Director - Critical Care EEG Service, UAB Hospital Director - UAB Outpatient Epilepsy Services, Kirklin Clinic	2004-2012
Research Associate Retinitis Pigmentosa Center, Bascom Palmer Eye Institute The University of Miami School of Medicine, Miami, Florida	1993-1994
Systems Design Engineer Pentastar Electronics, Inc., Huntsville, Alabama	1990-1991
Lead Engineer Digital Design Engineer SCI Technology, Inc., Huntsville, Alabama	1988-1990 1987-1988
Experimental Systems Engineer Pratt & Whitney Aircraft Company West Palm Beach, Florida	1985-1987

## **APPOINTMENTS/QUALIFICATIONS**

Clinical Adjunct Professor, USAF School of Aerospace Medicine 2019-Present

## **BOARD AND SUB-SPECIALTY CERTIFICATIONS**

American Board of Clinical Neurophysiology 2010  
American Society of Neuroimaging 2006

## **PROFESSIONAL REGISTRATIONS**

American Board of Psychiatry and Neurology, Inc. 2019-Present  
Certificate #63209

Florida Medical Doctor Expert Witness Certification 2019-Present  
Certificate #MEEW6713

Accreditation Commission for Traffic Accident Reconstruction  
ACTAR Registration #3645 2018-Present

Tennessee Board of Medical Examiners 2016-Present  
Medical License #53983

Iowa Board of Medical Examiners 2012-Present  
Medical License #40146

## **PROFESSIONAL AFFILIATIONS**

Association of the Advancement of Automotive Medicine 2018-Present  
Biomedical Engineering Society 2018-Present  
Society of Automotive Engineers 2018-Present  
American Epilepsy Society 2000-Present  
American Academy of Neurology 2000-Present  
American Clinical Neurophysiology Society 2000-2016

## **PROFESSIONAL ACTIVITIES**

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

## **SERVICE, ACHIEVEMENT, AND AWARDS**

Judge, Annual Biomedical Engineering Society Case Competition University of Texas, Department of Biomedical Engineering Austin, Texas	2018-Present
Fellow, American Epilepsy Society (FAES)	2016
Member, Board of Directors, Midwest YouCan Foundation	2015-Present
Medical Director & on-site “Camp Doc”, Camp YouCan Gretna, Nebraska	2014-Present
Member, Board of Directors	2013-2019
Chair, Ethics & Discipline Committee American Board of Registry in Electroneurodiagnostic Technology	2014-2019
Member, Iowa Community Council, Epilepsy Foundation of Iowa	2012-2016
Member, Board of Directors, Glenwood Autism and Behavioral Health Center of Alabama	2011-2012
Member, Executive Committee, Board of Directors	2009-2012
Chair, Professional Advisory Board Epilepsy Foundation of Alabama	2010-2012
Coordinator, UAB Neuroengineering Conference	2008-2012

Merritt-Putnam National Clinical Research Fellowship Awarded by the Epilepsy Foundation of America	2002-2003
American Epilepsy Society Young Investigator Award 54 <sup>th</sup> Annual AES Meeting, Los Angeles, California	2000
Awardee, Best Student Research Presentation “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, American Society of Electroneurodiagnostic Technologists (ASET), EEG Key Topics Course, “Update on Prion Disease”, 60th Annual Meeting, Kansas City, Missouri, August 16, 2019.

Invited Lecture, Quality Living, Inc. Medical Staff Update Meeting, “Epilepsy & Seizures in the Rehabilitation Environment”, (QLI), Omaha, Nebraska, 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, Tennessee, 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, Tennessee, October 20, 2017.

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

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

Invited Lecture, Vanderbilt Neurodiagnostic Technology Program. “New Diagnostic Methods in Presurgical Evaluation: Stereo EEG,” Vanderbilt University School of Medicine, Nashville, Tennessee, November 29, 2016.

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

Grand Rounds, Neurology Division, Ochsner Health System. “Less Invasive Surgical Options in Refractory Epilepsy,” New Orleans, Louisiana, 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 Iowa, February 2015.  
<https://www.youtube.com/watch?v=BMqiAGCXI9A&feature=youtu.be>

Grand Rounds, Department of Neurology, Mary Greeley Medical Center. “Epilepsy Diagnosis & Treatment: Five New Things That Every Physician Should Know,” Ames, Iowa, November 5, 2014.  
<https://www.youtube.com/watch?v=pMPzyKPK3gI>

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

Grand Rounds, Department of Neurology, Genesis Medical Center. “Making the Case for Epilepsy Surgery,” Davenport, Iowa, 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, Georgia, November 8, 2011.

Research Meeting, University of Iowa, Magnetic Resonance Research Facility (MRRF), “Applications of Magnetic Resonance Imaging in Epilepsy”, Iowa City, Iowa, May 14, 2012.

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

Southern EEG and Epilepsy Society (SEEGS) Annual Meeting, “Clinical Methods in Distinguishing Primary Generalized Epilepsy from Frontal Lobe Epilepsy”, Naples, Florida, 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, Alabama, 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, Florida, 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, Connecticut, 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, Connecticut, 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, Florida, March 21, 1997.

## **PUBLICATIONS AND ABSTRACTS**

### **Patents:**

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).

### Abstracts:

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 8<sup>th</sup> 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 64<sup>th</sup> Annual 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 60<sup>th</sup> 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 58<sup>th</sup> 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**

*2019 Annual Meeting* (Abstract Review, Biomedical Engineering Society).

*Epilepsy Research* (Reviewer, David M. Treiman, MD, Editor-in-Chief).

*Journal of Clinical Neurophysiology* (Reviewer, Aatif M. Husain, MD, Editor-in-Chief).