

CURRICULUM VITAE

Name: Erich Oscar Richter

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Home Address: (optional)

Home Telephone and Telefax: (optional)

Birthdate and Birthplace: (optional)

Spouse and Children: (optional)

Citizenship: (visa or residency status if applicable)

Education:

Undergraduate: Engineering, University of Florida, Gainesville, 1990-1995

Graduate/Medical: The Ohio State University College of Medicine and Public Health, 1995 -1999

Internship: General Surgery, University of Florida, 1999-2000

Residency: Neurological Surgery, University of Florida, 2000–2005

Post-Doctoral Fellowships: Stereotactic and Functional Neurosurgery, Toronto Western Hospital, Toronto, Ontario, Canada, 2002-2003

Clinical Fellowships

Other (i.e. MPH, MBA, MHA, Career Development Courses)

Certification: (if applicable, clinical boards, ECFMG, USMLE, etc)

Licensure:

- LA #MD.201895 8/31/2011
- LCDS #35354 4/7/2011
- DEA #BR7746235 4/30/2011

Academic, Professional, and Research Appointments:

- Assistant Professor, Louisiana State University Health Sciences Center, New Orleans, Department of Neurosurgery. Associate Director, LSU Epilepsya Center of Excellence, January 2008-Present
- Functional Neurosurgeon, Georgia Neurosurgical Institute (GNI), Macon, GA, USA, July 2006-January 2008
- Faculty, Clinical Assistant Professor of Medicine, Department of Surgery, Mercer University School of Medicine, July 2006-January 2008
- Faculty Lecturer, Department of Neurosurgery, University of Florida, Gainesville, FL, USA, January 2006-June 2006
- Teacher, MCAT Review Courses, Princeton Review, Inc., Columbus, OH, USA, 1996

- Library Monitor, OSU College of Medicine, Columbus, OH, USA, 1995-1996

- Computer Support Assistant, Edix, Inc., (medical transcription company) Tampa, FL, USA, 1995
- Resident Care Assistant for patient with Parkinson's Disease, Gainesville, FL, USA, 1995
- Grader, Electromagnetic Fields Class, Department of Electrical Engineering, College of Engineering, University of Florida, Gainesville, FL, USA, 1993
- Technical Assistant, Landmark Research International, Inc. (computer software company), Clearwater, FL, USA, 1992
- Lab Assistant, Microelectronics Lab, Department of Electrical Engineering, College of Engineering, University of Florida, Gainesville, FL, USA, 1992
- Lab Assistant, Photonics Lab, Department of Electrical Engineering, College of Engineering, University of Florida, Gainesville, FL, USA, 1991

Membership in Professional Organizations:

- The Movement Disorder Society
- American Epilepsy Society
- The American Clinical Neurophysiology Society
- American Association of Stereotactic Functional Neurosurgeons
- The Epilepsy Foundation of Georgia
- Christian Medical Association
- American Association for the Advancement of Science
- Joint Section on Stereotactic and Functional Neurosurgery
- American Association of Neurological Surgeons
- Congress of Neurological Surgeons
- Christian Medical and Dental Society. President, OSU student chapter 1996.
- American Medical Association

Awards and Honors:

The Ohio State University College of Medicine and Public Health

- AQA, Medical Honorary Society. President 1998
- Samuel J. Roessler Fellowship
- Honors in General Medicine
- Honors in Surgery
- Letter of Commendation in Obstetrics and Gynecology
- Academic Excellence Award for Outstanding Performance, Independent Study Program
- Academic Excellence Award for Outstanding Performance, Medical Humanities & Behavioral Sciences
- Honors in Anatomy
- The Ohio State University Scholarship in Medicine (1995-1998)

University of Florida, Gainesville, FL

- "Electric E" highest award for academic achievement, Department of Electrical Engineering
- Schlumberger Scholar, College of Engineering
- Presidential Scholar

- Rosier Scholarship, College of Engineering
- Alpha Epsilon Delta Honor Society (Pre-medical honor society)
- Alpha Lambda Delta Honor Society
- National Merit Scholarship

**Teaching Experience/Responsibilities: (must include some narrative description)
Course/Clerkship/Residency or Fellowship/CME Directorships**

Curriculum Development/Implementation

Creation of Enduring Teaching Materials

Formal Course Responsibilities – Lecture, Lab, Seminar/DxR/Ethics (all schools and all levels, undergraduate, graduate, resident, fellow, post-doctoral instruction; note number of hours/year and number of years involved in aggregate)

Departmental/Interdisciplinary Conferences – Morning Report, Grand Rounds, Tumor Board, Departmental Seminar Series, etc

Special Clinical Rounds – Chairman’s Rounds, Chief’s Conference, etc

Teaching Awards:

Graduate Students Trained: (as Major Professor or Thesis Advisor; do not list all residents supervised during career)

Thesis and Dissertation Committees:

Post-Doctoral or Post-Residency Fellows Trained:

Grants and Contracts: (note role on grant; i.e. PI, co PI, consultant, etc)

Funded

Pending funding

Non-funded applications (last three years)

Research Review Committee: (NIH study section, etc)

Inventions and Patents: Method of Endovascular Brain Mapping. Mericle RA, Batich CD, Watkins CS, Burry MV, Richter EO, Santra S: US Patent Pending, Serial # 10/421,950; Publication # US-2003-0236457, Filed April 24, 2003.

Papers Presented: (include, and ideally segregate, scientific presentations, plenary lectures, refresher courses, CME or society lectures, etc)

Seminars and Invited Presentations: (include visiting professorships)

- “NPM” Richter, E. Natalia’s, October 11, 2007.

- Update on research in movement disorders and functional neurosurgery at Mercer University. Richter, E. Mercer University School of Medicine Medical Center of Central Georgia Joint Research Conference. August 16th, 2007.
- Vagus Nerve Stimulation in Treatment Resistant Depression: Retrospective Look at Outcomes and Placement of Vagus Nerve. L.A. Hyer, M.S. Walid, E.O. Richter, J.S. Robinson Jr. Georgia Neurosurgical Society, Sea Island Georgia, May 2007.
- Prevalence of opioid dependence in spine surgery patients and correlation with length of stay. M.S. Walid, L.A. Hyer, E.O. Richter, J.S. Robinson Jr. Georgia Neurosurgical Society, Sea Island Georgia, May 2007.
- Stereotactic Radiosurgery for Trigeminal Neuralgia Richter, E.O. Regional Trigeminal Neuralgia Association Conference, Vanderbilt University, May 2007.
- Surgeon's Panel, Regional Trigeminal Neuralgia Association Conference, Vanderbilt University, May 2007.
- Economic Analysis of Allograft vs. Autograft Usage for 1- and 2-Level ACD&F with Plate Fixation for Patients Requiring Inpatient Surgery. ACM Barth, LG Nikolakakos, MA Kassam, MS Walid, CH Feltes, RA Lummus, KN Fountas, AA Grigorian, KW Johnston, EO Richter, JS Robinson Jr., 2007 AANS Annual Meeting, Washington DC, USA, April 2007.
- Surgical Options for Epilepsy . Richter, EO, 1st Annual Epilepsy Symposium, Macon, Georgia March 2007.
- Is there any advantage to using a balloon? Richter, EO, Kyphoplasty: Grand Rounds Medical College of Georgia, Augusta, Georgia January 2007.
- Thalamotomy. Richter EO. First National Honduran Congress of Neurosurgery, San Pedro Sula, Honduras, August 2006.
- Surgery for Depression: Schools of Thought and the Mercer University Experience. Richter, EO. C.A.N.S. 33rd Annual Scientific Congress, Negril, Jamaica November 2006.
- Pedicle Screw Instrumentation: is there a role for fixation without fusion Richter, EO, Percutaneous. C.A.N.S. 33rd Annual Scientific Congress, Negril, Jamaica November 2006.
- Depth Electrodes vs. surface recording in temporal lobe epilepsy. Richter, EO, , C.A.N.S. 33rd Annual Scientific Congress, Negril, Jamaica November 2006.
- CT versus MRI in postoperative imaging of DBS electrodes. Richter EO, Okun M, Foote K., University of Florida, Department of Neurosurgery, Neurosurgery 2005, Gainesville, FL, January 2005.
- Correspondence of microelectrode mapping with MRI for STN procedures. Richter EO, Hamani C, Hutchison W, Saint-Cyr J, Lozano AM. Oral Poster, 53rd

Annual Meeting of the Congress of Neurological Surgeons, Denver, CO, October 18-23, 2003.

- Position and size of the STN: a comparison of MRI findings to standard brain atlases. Richter EO, Hoque T, Halliday W, Saint-Cyr J, Lozano AM. Quadrennial Meeting of the American Society for Stereotactic and Functional Neurosurgery, New York, NY, May 20, 2003.
- The Toronto western experience with cingulotomy for psychiatric disorders: microelectrode recording, clinical outcome, and normalized lesion location. Richter EO, Davis K, Hamani C, Hutchison WD, Dostrovsky J, Lozano AM. Annual Meeting of the American Association of Neurological Surgeons. San Diego, CA, April 30, 2003.
- Discovering the brain: surgery for movement disorders. Richter EO, Lozano AM. Brain Discovery Day, University of Toronto Medical School, Toronto, Ontario, April 1, 2003.
- Surgical treatment of the emotional component of intractable chronic pain disorders: lessons from psychosurgery. Richter EO, Lozano AM. Neurosurgery Grand Rounds, Toronto Western Hospital, Toronto Ontario, January 2003.
- Position and size of the STN: a comparison of MRI findings to standard brain atlases. Richter EO, Hoque T, Lozano AM, Saint-Cyr J. University of Florida, Department of Neurosurgery, Neurosurgery 2003, Gainesville, FL, January 2003.
- Method of endovascular brain mapping. Richter EO, Watkins K, Ulm AJ, Burry M, Mericle R. University of Florida, Department of Neurosurgery, Neurosurgery 2002, Gainesville, FL, January 2002.
- Subjacent vertebral fracture after percutaneous vertebroplasty: indications for prophylactic treatment. Richter EO, Guiot BH, Fessler R, Peters K, Vlassak R, Bouchet L Annual Meeting of the Southern Neurological Society. Barton Creek, TX, April 2001.
- Subjacent fracture after vertebroplasty. Richter EO, Guiot BH, Fessler R, Peters K, Vlassak R, Bouchet L. University of Florida, Department of Neurosurgery, Neurosurgery 2001, Gainesville, FL, January 2001.
- G2 Checkpoint abrogation with UCN-01 in CMO cells. Richter EO, Vandre D. Neurosurgery Grand Rounds, The Johns Hopkins University College of Medicine, Baltimore, MD, December 1998.
- End of life decision making. Richter EO. Panel participant. Ethics discussion group, Ohio State University Hospitals, Columbus, OH, January, 1996.
- The Future of Neurosurgery. Rotary Club of Macon, Macon Georgia, February 28, 2007.

- Deep Brain Stimulation for Movement Disorders. Community Physician Presentation, Macon, Georgia January 2007.
- The Future of Neurosurgery, Kiwanis Club of Macon, Macon, Georgia, February 6, 2007.
- Acute Spinal Cord Injury. Convocation, University of Florida School of Physical Therapy, August 30, 2004.
- Neurosurgery and becoming a neurosurgeon. Meadowvale Secondary School Biology Club, Toronto, Ontario, May 2003.
- Introduction to neurosurgery. Case-based neurosurgery teaching session for third year medical students, University of Toronto Medical School, Toronto, Ontario, April 2003.
- What is brain surgery like? Grade 4 Class, Humbercrest Public School, Toronto, Ontario, October 2002.

Plenary lectureships at professional meetings/symposia
Visiting professorships or seminars
CME lectures

Editorial Posts and Activities:

Journal editorships or associate editorships
Reviewer status

University/Institutional Service: (note leadership responsibilities)

Departmental committees
School of Medicine committees
LSUHSC (campus) committees
Hospital committees
Professional society committees
Special assignments – ad hoc task forces/working groups, projects, etc

Clinical Service: (may elaborate details further on portfolio)

In-patient service activities
Clinic coverage
Call

Administrative Responsibilities: (must include some narrative description)

Departmental
School of Medicine
LSUHSC
Hospital
Interdisciplinary/other program (center or program)

Community Service Activities:

- Neurosurgical Medical Mission to Honduras, August 2006
- Board Member, Friends of Barnabus Foundation

- Board Member, Elias Community Church

Books:

Book Chapters:

- Deep brain stimulation for movement disorders. Richter, EO, Lozano, AM. In: Rosch, P., Marko M, eds. *Clinical Applications of Bioelectromagnetic Medicine*. New York: Marcel Dekker Inc., 2004: 265-276.
- Posterior and far-lateral open microdiscectomy. Peace D, Ulm AJ, Richter EO, Henn J. In: Henn J, Dickman C, eds. *Surgical Anatomy and Techniques of the Spine*. Elsevier (in press).
- Percutaneous and endoscopic discectomy. Richter EO, Ulm AJ, Peace D, Henn J. In: Henn J, Dickman C, eds. *Surgical Anatomy and Techniques of the Spine*. Elsevier (in press).

Videos and Multimedia:

Scientific Exhibits:

Journal Publications: (must segregate refereed and non-refereed papers; appended research interest narrative optional)

- Preoperative endovascular brain mapping for intraoperative volumetric image guidance: preliminary concept and feasibility in animal models. Mericle RA, Richter EO, Eskioglu E, Watkins C, Prokai L, Batich C, Santra S. *J Neurosurg* 2006, Apr; 104 (4): 566-573.
- Development of syringohydromyelia associated with Dandy–Walker malformation: treatment with cystoperitoneal shunt placement. Case report. Richter EO, Pincus DW. *J Neurosurg* 2006, Mar; 104 (3-Suppl. S): 206-209.
- *Brainstem Stereotactic Biopsy in Children*. Pincus DW, Richter EO, Yachnis AT, Bennett J, Bhatti, MT, Smith A.. *J Neurosurg* 2006, Feb; 104 (2 Suppl): 108-14.
- Human anterior cingulate cortex neurons encode cognitive and emotional demands. Davis KD, Taylor, KS, Hutchison, WD, Dostrovsky JO, McAndrews MP, Richter EO, Lozano AM.. *J Neurosci* 2005, Sept 14; 25 (37): 8402-6.
- Bilateral subthalamic nucleus stimulation for Parkinson disease: a systematic review of the clinical literature. Hamani C., Richter E.O., Schwalb J.A., Lozano, A.M. *Neurosurgery* 2005 Jun; 56(6):1313-21;
- *Percutaneous and endoscopic microdiscectomy*. Richter EO, Ulm AJ, Peace D, Henn JS *Operative Techniques in Neurosurgery*. (invited review, in press).

- Correspondence of microelectrode mapping with MRI for subthalamic nucleus procedures/ Hamani C., Richter E.O., Andrade-Souza Y., Hutchison W., Saint-Cyr J.A., Lozano A.M. . Surg Neurol 2005 Mar; 63(3): 249-53.
 - Surgery for Parkinson's disease: where are we? Lozano AM, Richter E. Lancet Neurology (invited review, in press).
 - Determining the position and size of the subthalamic nucleus based on magnetic resonance imaging results in patients with advanced Parkinson disease. Richter EO, Hoque T, Halliday W, Lozano AM, Saint-Cyr J. J Neurosurg 2004 Mar; 100(3): 541-6.
 - Cingulotomy for psychiatric disease: microelectrode guidance, a colossal reference system for documenting lesion location, and clinical results. Richter EO, Davis KD, Hamani C, Hutchison WD, Dostrovsky JO, Lozano AM. Neurosurgery 2004 Mar; 54(3): 622-28.
 - An Ataxic teen with rapidly changing eye findings. Richter EO, Tunnessen WW. Contemporary Pediatrics 17(7): 23-24,27, 2000.
 - Menezes A, Henn JS, Dickman C, Lewis S, Lemole M, Porter R, Delfini R, Mimran R, Richter EO, Ballough A. *Anterior approaches to the craniovertebral junction: 3D anatomy and surgery*. 54th Annual Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2004.
 - CT versus MRI in postoperative imaging of DBS electrodes. Richter EO, Okun M, Foote KD.
 - Reproducibility of cingulate coordinates using the callosal line system. Richter EO.
 - Anatomy of the inferior orbital foramen: implications for peripheral nerve lesions. Richter EO, Ulm AJ, Rahman M, Rhoton AL.
 - Anatomy of approaches to the third ventricle part II: comparison of approach distances. Ulm AJ, Richter EO, Pincus DW, Rhoton AL.
 - Mechanisms of airbag related pediatric cervical spine injuries. Richter EO, Ulm AJ, Pincus DW.
 - Traumatic bilateral perched midlumbar facets: a case report and review of the literature. Richter EO, Ulm AJ, Rahman M, Henn JS
- Refereed (bold face your own name)**
Non-refereed (bold face your own name)

Abstracts:

- Age a factor in Psychogenic Non-epileptic Seizure (PNES): adult. Zhao, D, Richter, ED, Hyer, LA, Moriner, GM, Chung, I, Robinson, JS, Barth, ACM, Mancin, KF, Robinson JS, AES, Philadelphia, PA, November 2007.

- High Prevalence of Opioid Dependence Does Not Impact Length of Stay in Spine Surgery Patients. MS Walid, M Ajjan, ACM Barth, M Kassam, CH Feltes, LG Nikolakakos, KN Fountas, DC Parish, EO Richter, JS Robinson Jr. 2007 AANS Annual Meeting, Washington DC, USA, April 2007.
- Immediate Economic Outcome Analysis of Interspinous Process Decompression (IPD) and Single Level Lumbar Decompression for Spinal Stenosis. MA Kassam, CH Feltes, LG Nikolakakos, MS Walid, ACM Barth, KN Fountas, EO Richter, AA Grigorian, HF Smisson, KW Johnston, JS Robinson Jr. 2007 AANS Annual Meeting, Washington DC, USA, April 2007.
- Economic Impact Model for the Development of a Statewide Trauma System in the USA. CH Feltes, AI Escurra, MA Kassam, LG Nikolakakos, KN Fountas, MS Walid, ACM Barth, D Zhao, AJ Ulm, EO Richter, DA Ashley, AA Grigorian, EC Troup, HF Smisson, KW Johnston, JS Robinson Jr. 2007 AANS Annual Meeting, Washington DC, USA, April 2007.
- Absence of Economic Analysis in Neurosurgical Literature. LG Nikolakakos, JS Robinson III, C Sevin, MA Kassam, CH Feltes, KN Fountas, EO Richter, JS Robinson Jr. 2007 AANS Annual Meeting, Washington DC, USA, April 2007.
- Percutaneous pedicle screw fixation as a supplement to anterior thoracolumbar fusion. Ulm AJ, Richter EO, Jacob RP. 2005 Scientific Program of the Southern Neurological Society, Key West, FL, March 2005.
- Davis KD, Taylor KS, Hutchison WD, Richter EO, Lozano AM, Dostrovsky JO. Responses of anterior cingulate cortex neurons during the counting and emotional stroop in patients with obsessive compulsive disorder. Society for Neuroscience 34th Annual Meeting, San Diego, CA, October 23-27, 2004.
- Bilateral subthalamic nucleus stimulation for Parkinson disease: a review of the clinical literature. Hamani C., Richter E.O., Lozano A.M. 53rd Meeting of the Congress of Neurological Surgeons Denver, CO, October 18-23, 2003 (poster).
- Correspondence of microelectrode mapping with magnetic resonance imaging for subthalamic nucleus procedures. Richter EO, Hamani C, Hutchison W, Saint-Cyr J, Lozano AM. 53rd Annual Meeting of the Congress of Neurological Surgeons, Denver, CO, October 18-23, 2003, Abstract 81.
- Comparison of MRI position and size of STN to schaltenbrand and wahren brain atlas. Richter EO, Hoque T, Saint-Cyr J, Lozano AM. Quadrennial Meeting of the American Society for Stereotactic and Functional Neurosurgery, New York, NY, 2003, pg. 88.
- The Toronto western experience in neurosurgery for obsessive compulsive disorder. Richter EO, Lozano AM, Hamani C. Annual Meeting of the American Association of Neurological Surgeons, San Diego, CA, 2003, pg. 118.
- Subadjacent vertebral fracture after percutaneous vertebroplasty: indications for prophylactic treatment. Richter EO, Guiot BH, Fessler R, Peters K, Vlassak R,

Bouchet L. 2001 Scientific Program of the Southern Neurological Society, Barton Creek, TX, April 2001, pg. 12.

- Influence of Anesthesia on Postoperative Cognitive Decline in Adults Over 50 Who Have Undergone Spinal Surgery. Hyer, Valid, Richter, Brooks, Robinson. AANS April 2008. (pending acceptance).