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Life University  
Dr. Sid E. Williams Center for Chiropractic Research  
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### **Education**

2003	B.S.	Kennesaw State University, Kennesaw, GA Biology, Magna Cum Laude
2008	D.C.	Life University, Marietta, GA Doctor of Chiropractic, Magna Cum Laude
2018	Ph.D.	University of Georgia, Athens – Biomedical and Health Sciences Institute Doctor of Philosophy, Cognitive Neuroscience,

### **Positions and Employment**

1991-1993	Sales and Service Support, Bank of America, Atlanta, GA
1993-1994	Mortgage Loan Originator, Marietta Mortgage, Marietta, GA
1994-1995	Sales and Service Support, SunTrust Capital Markets, Atlanta, GA
1995-1997	Branch Management, Bank of America, Atlanta, GA
1997-1997	Sales and Service Support, First Colony Bank, Roswell, GA
1997-1999	Branch Management and Sales, Bank of America, Atlanta, GA
1999-2000	Marketing Director, Optima Technologies, Marietta, GA
2004-2008	Research assistant, Life University, Marietta, GA
2007-	Director, Office for Senior Health and Wellness, Life University, Marietta, GA
2008-	Owner, Wellness Wagon Chiropractic, LLC, Woodstock, GA
2008-2014	Director, Office of Sponsored Research and Scholarly Activity, Life University, Marietta, GA
2014-	Director, Dr. Sid E. Williams Center for Chiropractic Research, Life University, Marietta, GA

### **Other Experience and Professional Memberships**

1998	National Association of Securities Dealers, Series 6
1998	National Association of Securities Dealers, Series 63
2007-	Founding member, Upsilon Kappa Chi Sorority, Women's Chiropractic sorority, Marietta, GA
2007-	Board member, Life University Life Center for Seniors, Marietta, GA
2008-2013	Member, National Council of University Research Administrators
2012	Life University's Prioritization project, SP2; Academic programs review, co-chair
2016-	Life University, Leadership Enrichment and Development Program

### **Honors**

2003	Biology Student of the Year, Kennesaw State University, Kennesaw, GA
2003	Graduate: Magna Cum Laude, Kennesaw State University, Kennesaw, GA
2008	Graduate: Magna Cum Laude, Life University College of Chiropractic, Marietta, GA
2008	Graduate: Salutatorian, Life University College of Chiropractic, Marietta, GA
2008	Graduate: Research Track, Life University College of Chiropractic, Marietta, GA
2015	ACC RAC Research Award: Owens E, Hosek R, Sullivan S, Russell B, Mullin L, Dever L. Developing Training Targets for Lumbar Spine HVLA Adjustments in a Chiropractic Program. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Platform.

## **Peer-reviewed conference presentations**

1. Sullivan S. The Influence of Echinacea on developing chick embryos. Forty-sixth annual meeting: Beta Beta, Beta Southeastern Region. 2003. Platform.
2. Kirk R, Sullivan S. The Center for Seniors: A descriptive study of a wellness-based mature adult learning community. Association of Chiropractic Colleges/ Research Agenda Conference. 2009. Platform.
3. Sullivan S. Chiropractic influence on protein conformation by means of neuronal electromagnetic fields: A theoretical model. 2009. Poster.
4. Sullivan S, Fisher J. Interests, activities, and concerns within a focus group of adult senior members in a University sponsored senior program. Association of Chiropractic Colleges/ Research Agenda Conference 2010. Platform.
5. Frandsen A, Sullivan S. Attention deficit disorder and chiropractic: a narrative review. Sherman College of Chiropractic 2010 International Research and Philosophy Symposium. Platform.
6. Sullivan S, Hansen L, Revels K, and Duffy J. Impact of chiropractic adjustments on pulse oximetry: a pilot study. Association of Chiropractic Colleges/ Research Agenda Conference 2011. Platform.
7. Sullivan S. Stochastic Resonance as a Theoretical Model for the Impact of Functional Neurology Therapies on Patient Neurological Function. International Association of Functional Neurology and Rehabilitation. 2<sup>nd</sup> Annual Conference. 2011. Poster
8. Sullivan S, Stiles A, Quinterro-Villa J. Testing Presumptions: A Pilot Study Assessing Palpatory Efficiency Across Levels of Experience. Association of Chiropractic Colleges/ Research Agenda Conference 2012. Platform.
9. Sullivan S, Stiles A, Fanning T, Hosek R, Jenkins A. Comparison of Dartfish Software Motion Capture to Traditional Goniometry in the Assessment of Glenohumeral Joint Range of motion. International Conference on Spinal Manipulation 2013. Platform.
10. Owens E, Hawk C, Alcantara J, Sullivan S, Hosek R. Practice-Based Research: a Pressing Need for the Chiropractic Profession. Association of Chiropractic Colleges/ Research Agenda Conference 2014. Workshop.
11. Hosek R, Owens E, Sullivan S, Esposito J. The Feasibility of Using Electronic Health Records as a Data Source for Practice-Based Research: An Exercise in Inter-Professional Collaboration. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Poster.
12. Sullivan S, Marshall R, Hansen L, Markham J, Guest T. The impact of chiropractic Activator adjustments on mental rotation and line judgment reaction time: A pilot study. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Poster.
13. Owens E, Hosek R, Sullivan S, Russell B, Mullin L, Dever L. Developing Training Targets for Lumbar Spine HVLA Adjustments in a Chiropractic Program. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Platform.
14. Tuttle D, Hochman J, Sullivan S, Hosek R. Quantitative assessment of changes in brain activity after a chiropractic adjustment. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Poster.
15. Owens E, Hosek R, Mullin L, Dever L, Sullivan S, Russell B. Thrust magnitudes, rates and 3-dimensional directions delivered in simulated lumbar spine HVLA adjustments. 13<sup>th</sup> World Federation of Chiropractic Congress 2015. Poster.
16. Sullivan S, Hosek R, Owens E, Paolucci L. Review of the literature and comparison of two practice-based research network recruitment techniques: onsite event recruitment and affiliation recruitment. 13<sup>th</sup> World Federation of Chiropractic Congress 2015. Poster.
17. Sullivan S, Owens E, Hosek R, Paulucci L. Review of the literature and comparison of two practice-based research network (PBRN) recruitment techniques: onsite event recruitment and affiliation recruitment. Sherman International Research and Philosophy Symposium 2015. Platform.
18. Sullivan S, Longyear M, Vestal J, Tuttle D, Hosek R, Hall M. Case Report of a seventeen-year-old post-concussive male receiving chiropractic functional neurology care. Sherman International Research and Philosophy Symposium 2015. Platform.
19. Owens E, Hosek R, Mullin L, Dever L, Sullivan S, Russell B. Changes in adjustment force, speed and direction factors in chiropractic students after 10 weeks undergoing standard technique training. ACC-RAC 2016 – Platform Presentation

20. Sullivan S, Longyear M, Vestal J, Tuttle D, Hosek R. Seventeen-year-old post-concussive male receiving chiropractic functional neurology care with whole body rotation: a case report. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Poster.
21. Owens E, Plasker E, Hosek R, Sullivan S. The long-term effects of continuing chiropractic care: a feasibility study. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Poster.
22. Owens E, Esposito J, Hosek R, Sullivan S. How well do diagnosis codes from claims databases represent health issues of chiropractic patients. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Poster.
23. Hosek R, Owens E, Plasker E, Sullivan S. A practice-based pilot study of patient's attitudes about long-term care and longevity. Association of Chiropractic Colleges/ Research Agenda Conference 2015. Poster.
24. Sullivan S, Hoiriis K. A Description of the Blended Experiential Learning Environment and Comparison of Weekly Quizzes versus Midterm Examinations as Assessments of Student Learning. DC 2017. Platform
25. Palmer J, Pierce A, Sullivan S, Markham J, Guest T. The impact of chiropractic Activator adjustments on analytical abilities and reaction time task performance: a pilot study. DC 2017. Poster.
26. Gilbert L, Sullivan S, Jordan J, Hosek R. Effects of palpation and two-point rolling thermography on skin temperature as assessed with a digital infrared thermography camera. DC 2017. Platform.
27. Hosek R, Plasker E, Owens E, Sullivan S. Self-reported lifestyle and health ratings may correlate with time under chiropractic care: results from a practice-based pilot study. DC 2017. Poster.
28. Tuttle D, Hochman J, Sullivan S, Hosek R. Sacral-Occipital Technique (SOT®) care alters frontal, temporal, parietal and occipital brain electrical activity: a randomized controlled clinical study. DC 2017. Poster.
29. Tuttle D, Hochman J, Sullivan S, Hosek R. Spinal Manipulative Therapy (SMT) of lumbosacral joints affects frontal, temporal, parietal and occipital brain electrical activity: a randomized controlled clinical study. Cell Symposia. Poster
30. Seckington A, Sullivan S, Drake E. Sensory integration therapy utilizing the SAVE Program: A case report of a post-concussive adult. ACC RAC 2018. Poster.
31. Sullivan S, Gilbert L. Feasibility of auditory potentials as an outcome measure before and after chiropractic care delivered in a university teaching clinic. ACC RAC 2018. Platform.
32. Sullivan S, Drake E, Tuttle D, Hosek R, Youkey R. The effects of whole body rotation on brain function as measured by quantitative electroencephalography. ACC RAC 2018. Platform
33. Hosek R, Sullivan S, Owens E, Seckington A. Research topics of interest to practicing chiropractors: a pilot study. ACC RAC 2018. Poster
34. Longyear M, Ferguson M, Tuttle D, Drake E, Sullivan S. Report of a cross-discipline, multimodal approach to care of a patient with multifocal dystonia. ACC RAC 2018. Platform
35. Drake E, Seckington A, Sullivan S, Behrens S. Case report of an adult with prior concussions utilizing sensory integration therapy with the SAVE Program: A follow-up. ACC RAC 2019. Platform.
36. Sullivan S, Marshall R, Tuttle D, Drake E, Hosek R, Hochman J. Changes over time in effective neural connectivity following a chiropractic adjustment. ACC RAC 2019. Platform.
37. Kuyinu E, Sullivan S, Longyear M, Drake E, Lawrence P. Case report of an adult patient with self-reported symptoms of Attention Deficit Hyperactivity Disorder (ADHD) receiving multimodal Applied Clinical Neuroscience care. ACC RAC 2019. Poster.
38. Sullivan S, Marshall R, Tuttle D, Drake E, Hosek R, Hochman J. Changes in effective neural connectivity following a single session of chiropractic care applied through use of the Sacro Occipital Technique (SOT) protocol. WFC 2019. Poster.

## **Publications**

Carrick F, Pagnacco G, Oggero E, Sullivan S, Barton D, Esposito S, Leisman G, Melillo R. The Effects of Whole Body Rotations in the Pitch and Yaw Planes on Postural Stability. *Journal of Functional Neurology, Rehabilitation, and Ergonomics*. 2011.1(2):167-180.

Gliedt JA, Hawk C, Anderson M, Ahmad K, Bunn D, Cambron J, Gleberzon B, Hart J, Kizhakkeveettil A, Perle SM, Ramcharan M, Sullivan S and Zhang L. Chiropractic student assessment of identity, role and future. Chiropractic & Manual Therapies. 2015. 23(4):2-8.

Owens E, Hosek R, Sullivan S, Russell B, Mullins L, Dever L. Establishing Force and Speed Training Targets for Lumbar Spine High-Velocity Low-Amplitude Chiropractic Adjustments. Journal of Chiropractic Education.

Owens E, Hosek R, Mullins L, Dever L, Sullivan S, Russell B. Thrust magnitudes, rates and 3-dimensional directions delivered in simulated lumbar spine high-velocity, low-amplitude manipulation. J Manipulative Physiol Ther. 2017;40:411-9.

Owens E, Russell B, Hosek R, Sullivan S, Dever L, Mullins L. Changes in adjustment force, speed, and direction factors in chiropractic students after 10 weeks undergoing standard technique training. J Chiropr. 2018;32(1):3-9.

Sullivan S, Hoiriis K. A Description of a change in teaching methods and comparison of quizzes versus midterms scores in a research methods course. J Chiropr Educ. 2018 Jun 6. doi: 10.7899/JCE-17-20.

### **Internal Research Support**

### **Completed Research Support**

Internal Grant Funding Sullivan (PI) 05/21/2013 – 2015  
Life University  
The impact of chiropractic Activator adjustments on mental rotation and line judgment reaction time: A pilot study  
Role: PI

Internal Grant Funding Sullivan (PI) 5/01/2014 – 7/01/2014  
Life University  
Purchase of Cambridge Cognition cognitive assessment software  
Role: PI and Chair of Computerized Cognitive assessment and stimulus presentation user's group

Internal Grant Funding Sullivan (PI) 10/18/2010 – 01/01/2012  
Life University  
Interests, Activities, and Concerns Within a Focus Group of Adult Senior Members: Focus Group and Photo Journal  
Role: PI

Internal Grant funding Sullivan (PI) 9/05/2005-6/1/2008  
Life University  
A Gastroesophageal Reflux Disease (GERD) study concerning the prevalence of GERD in chiropractic offices, subluxation characteristics of GERD patients, and the effect of chiropractic on GERD symptoms  
Role: PI

Internal Grant Funding Sullivan (PI)  
Life University

4/10/2007 – 07/16/2008

Establishment of the Office for Senior Health and Wellness: A Division of Life University Life Center for Seniors.

Role: PI

### **Committees:**

2005-2007 Student representative, Life University Research Committee, Marietta, GA  
2009-2014 Chair, Life University Research Advisory Committee, Marietta, GA  
2009-2011 Chair, Life University Staff Development Committee, Marietta, GA  
2009-2013 Member, Life University Faculty-Staff Development Committee, Marietta, GA  
2009-2010 Intellectual Visioneers: Green Space  
2008- Academic Affairs  
2009- Academic Council  
2011-2012 Council on Chiropractic Education, Academic self-study committee  
2016- Member, Research Advisory Council  
2017 Ex Officio, Research Track Committee

### **Courses:**

SU 2015 Research Methods & Design 3601, assistant instructor  
FA 2015 Research Methods & Design 3601, lead instructor  
WI 2016 Research Methods & Design 3601, lead instructor  
SP 2016 Research Methods & Design 3601, lead instructor  
SU 2016 Research Methods & Design 3601, lead instructor  
FA 2016 Physiology 2535, lab instructor  
SU 2017 Physiology 2535, lead instructor  
FA 2017 Physiology 2535, lead instructor  
WI 2018 Physiology 2535, lead instructor  
SU 2018 Physiology 2535, lead instructor  
FA 2018 Physiology 2535, lead instructor  
WI 2019 Physiology 2535, lead instructor  
WI 2019 Physiology 2535, lab instructor

### **Chiropractic Continuing Education Courses Presented:**

2009 Chiropractic: Gathering the data. Life University. Fall Lyceum. 2 hours.  
2010 Chiropractic: Report on Current Research Trends. Life University Fall CE Event. 4 hours.  
2011 An Update on the Vertebral Subluxation Complex. Life University Fall CE Event, 2 hours  
2013 Chiropractic and Cognition: Research and Clinical Perspectives  
2015 Chiropractic and Cognition: Research and Clinical Perspectives  
2015 Life Vision  
2015 Amped  
2016 Chiropractic Neuroscience & Cognition Research and Clinical Perspectives, Fall CE Event, 2 hours  
2017 Chiropractic Neuroscience and Cognition Research: an Experiential Journey Through the Research

### **External Funding:**

NCMIC Foundation	Sullivan (Co-PI)	01/01/2019 – present
A randomized wait-list control trial evaluating the effect of team-based applied clinical neuroscience care on self-reported symptoms of depression and cerebellar function in adults with medication-resistant depression		
NCMIC Foundation	Sullivan (PI)	08/2012- 8/2016
University of Georgia Ph.D. Grant Support		
National Library of Medicine/NIH	Sullivan (Co-author)	11/2009-2011
Life Center for Seniors Health Literacy Grant (LCS Health Literacy)		
Health Missions	Sullivan (Co-author)	7/22/2013 – 4/01/2015
Utilization of Electronic Health Records in Practice Based Research		

**Peer Reviewer:**

2009	Association of Chiropractic Colleges Research Agenda Conference
2010	Gerontological Society of America
2010	Association of Chiropractic Colleges Research Agenda Conference
2011	Association of Chiropractic Colleges Research Agenda Conference
2016	Association of Chiropractic Colleges Research Agenda Conference
2017	Association of Chiropractic Colleges Research Agenda Conference
2018	Association of Chiropractic Colleges Research Agenda Conference