



**BRENT RUSSELL, MS, DC**

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**CURRICULUM VITAE (vers 8.8.2019)**

<p>EDUCATION</p>	<ul style="list-style-type: none"> <li>• Life University, College of Chiropractic, Marietta, Georgia. DC degree (Doctor of Chiropractic); 1983.</li> <li>• Georgia State University, Atlanta, Georgia. MS Exercise Science, Biomechanics Concentration; 2011.</li> <li>• Georgia Southern University, Statesboro, Georgia. BA; 1978.</li> </ul>
<p>ACADEMIC EMPLOYMENT, LIFE UNIVERSITY</p>	<p>Current:</p> <ul style="list-style-type: none"> <li>• Majority of faculty time devoted to research (<i>see Research Publications, Publications in Progress, and Conference Presentations, below.</i>)</li> <li>• Lead instructor RSCH 2501, Introduction to Research Methods (since March 2008): fundamental concepts, evidence-based practice, types of research, literature search, reading &amp; analyzing peer-reviewed publications, common statistics in clinical research.</li> <li>• Instructor, ANLS 5815, Selected Topics in Biomechanics: a variety of topics in clinically-related biomechanics related to spinal adjustment, neuromusculoskeletal dysfunction &amp; pathology.</li> <li>• Scientific Advisor, Research Track alternative curriculum for College of Chiropractic students (competitive application process)</li> <li>• Member and immediate past chair, Life University Institutional Review Board (research ethics committee).</li> <li>• Member, Research Advisory Council (research funding approvals).</li> </ul> <p>Past:</p> <ul style="list-style-type: none"> <li>• Lab instructor for DIAG 2730, Orthopedic Diagnosis, and DIAG 2740, Neurological Diagnosis.</li> <li>• Faculty Clinician, Life University Outpatient and Student Clinics: 1984-89 and 1991–1995</li> </ul>
<p>PROFESSIONAL MEMBERSHIP</p>	<ul style="list-style-type: none"> <li>• American Society of Biomechanics</li> </ul>
<p>PROFESSIONAL PRACTICE highlights</p>	<ul style="list-style-type: none"> <li>• 2000 – present: part-time home-office practice</li> <li>• 1998 – 2000: Essential Healing: multi-disciplinary group practice offered chiropractic, nutritional counseling, massage therapy, and wellness education.</li> <li>• 1992 – 1997: home-office practice (part-time)</li> </ul>

	<ul style="list-style-type: none"> <li>• 1987 – 1992: Phoenix Healing &amp; Learning Institute: multi-disciplinary center offered chiropractic, medical care, psychiatry, psychology, nutritional counseling, massage therapy, &amp; wellness education.</li> </ul>
<p>RESEARCH PUBLICATIONS</p>	<ul style="list-style-type: none"> <li>• Russell BS, Hosek RS, Hoiriis KT, Drake ED. A case study involving Chronic Progressive External Ophthalmoplegia and Bilateral Vestibular Hypofunction: balance, gait, and eye movement, before and after multimodal chiropractic care. <i>Journal of Chiropractic Medicine</i>. 2019;18(2):144-54.</li> <li>• Minicozzi SJ, Russell BS. Increased low back pain in performance of a pelvic tilt maneuver: a short report of 2 cases. <i>Journal of the Academy of Chiropractic Orthopedists</i>. 2019;16(1):3-17.</li> <li>• Russell BS, Hoiriis KT, Hosek RS. Walking gait before and after chiropractic care following fifth metatarsal fractures: a single case kinetic and kinematic study. <i>Journal of Chiropractic Medicine</i>. 2018;17(2):106-16.</li> <li>• Owens EF, Russell BS, Hosek RS, Sullivan SGB, Dever LL, Mullin LE. Changes in adjustment force, speed, and direction factors in chiropractic students after 10 weeks undergoing standard technique training. <i>Journal of Chiropractic Education</i>. 2017;32(1):3-9.</li> <li>• Minicozzi SJ, Russell BS. On-site chiropractic care as an employee benefit: a single location case study. <i>Journal of Chiropractic Medicine</i>. 2017;16(3):183-8.</li> <li>• Owens EF, Hosek RS, Mullin L, Dever L, Sullivan SGB, Russell BS. Thrust magnitudes, rates, and 3-dimensional directions delivered in simulated lumbar spine high-velocity, low amplitude manipulation. <i>J Manipulative Physiol Ther</i>. 2017;40(6):411-9.</li> <li>• Minicozzi SJ, Russell BS, Ray KJ, Shen A, Owens EF. Low back pain response to pelvic tilt position: an observational study of chiropractic patients. <i>Journal of Chiropractic Medicine</i>. 2016; 15: 27-34.</li> <li>• Owens EF, Hosek R, Sullivan S, Russell BS, Mullin L, Dever L. Developing training targets for lumbar spine HVLA adjustments in a chiropractic program. <i>Journal of Chiropractic Education</i>. 2016; 30(1):7–13.</li> <li>• Russell BS. Letter to the Editor concerning “High-heeled-related alterations in the static sagittal profile of the spino-pelvic structure in young women” by Min Dai et al. <i>European Spine Journal</i>. 2015;24(8):1826-7.</li> <li>• Hoiriis KT, Russell BS. Case report: a patient with low back pain and somatic referred pain concomitant with intermittent claudication in a chiropractic practice. <i>Topics in Integrative Health Care</i>. 2014;5(1):ID 5.1004.</li> <li>• Russell BS, Hoiriis KT, Guagliardo J. Correlation between student performances on course level integrated clinical skills examinations and Objective Structured Clinical Examinations in a chiropractic college program. <i>Journal of Chiropractic Education</i>. 2012 Fall;26(2);138-45.</li> <li>• Russell BS, Muhlenkamp KA, Hoiriis KT, DeSimone CM. Measurement of lumbar lordosis in static standing posture, with and without high-heeled shoes. <i>Journal of Chiropractic Medicine</i>. 2012;11(3):145-53.</li> </ul>

	<ul style="list-style-type: none"> <li>• Russell BS. The effect of high-heeled shoes on lumbar lordosis: a narrative review and discussion of the disconnect between Internet content and peer-reviewed literature. <i>Journal of Chiropractic Medicine</i>. 2010;9(4);166-73.</li> <li>• Russell BS. Carpal tunnel syndrome and the "double crush" hypothesis: a review and implications for chiropractic. <i>Chiropractic &amp; Osteopathy</i>. 2008, Apr 21;16:2.</li> <li>• Russell BS, Hoiriis KT. Conference on the Biology of Manual Therapies: a special report. <i>Journal of Vertebral Subluxation Research</i>. 2006;18.</li> <li>• Russell BS. A suspected case of ulnar tunnel syndrome relieved by chiropractic extremity adjustment methods. <i>Journal of Manipulative &amp; Physiological Therapeutics</i>. 2003;26(9):602-7.</li> </ul>
RESEARCH IN PROGRESS	<ul style="list-style-type: none"> <li>• Herzog W, Kevorkian P, Russell BS, Alcantara J. The forces exerted by chiropractors on pediatric patients during high-speed low amplitude spinal manipulative treatments. In review with <i>Journal of Manipulative &amp; Physiological Therapeutics</i>.</li> <li>• Schmidt AM, Russell BS, Hosek RS. Kinematics of piano performance of a Grand Scale exercise.</li> <li>• Owens EF, Russell BS, Weiner MT, Mullin LE, Hosek RS. Amplitude and speed of Gonstead technique side-posture lumbopelvic adjustments in humans. Manuscript in preparation.</li> <li>• Weiner MT, Russell BS, Mullin LE, Owens EF, Hosek RS, Kelly G. Kinematic assessment of a chiropractor performing side posture adjustments: a pilot study using a motion capture system. Manuscript in preparation.</li> <li>• Schmidt AM, Russell BS, Hosek RS. Kinematics of piano performance before and after chiropractic are. Manuscript in preparation.</li> <li>• Merritt EM, Russell BS, Owens EF. Center of Pressure variability in treadmill walking. In analysis and manuscript preparation.</li> <li>• Jendzurski M, Russell BS. The influence of rhetorical sensitivity on the chiropractor's message design. In analysis and manuscript preparation.</li> <li>• Bryson LB, Bryson JD, Russell BS, Hosek RS. Kinematic evaluation comparing internal frame and frameless backpacks. In analysis and manuscript preparation.</li> <li>• Capes M, Russell BS, Oz M, Hosek RS. Kinetic gait assessment before and after chiropractic lower extremity adjustments. Manuscript in preparation.</li> </ul>
CONFERENCE PRESENTATIONS	<ul style="list-style-type: none"> <li>• Russell BS, Wynd SE, Hosek RS, Owens EF, Hoiriis KT. Rotational kinematics of supine cervical spine manipulation: a pilot study [abstract]. Poster presentation, Congress of the World Federation of Chiropractic and European Chiropractors' Union, March 2019.</li> <li>• Owens EF, Hosek RS, Russell BS. Mechanical properties of a thoracic spine mannequin with variable stiffness control. Platform presentation, Association of Chiropractic Colleges' Research Agenda Conference (ACC-RAC), March 2019.</li> </ul>

- Weiner MT, Russell BS, Mullin LE, Owens EF, Hosek RS, Kelly G. Assessment of hip and shoulder kinematics of a chiropractor during performance of side posture adjustments: data from a pilot study. Platform presentation, ACC-RAC March 2019.
- Weiner MT, Russell BS, Mullin LE, Owens EF, Hosek RS, Kelly G. Posture assessment of a chiropractor performing side posture adjustments: a pilot study using an inertial measurement unit system. Poster presentation, American Society of Biomechanics, August 2018.
- Weiner MT, Russell BS, Mullin LE, Owens EF, Hosek RS. Kinematic assessment of a chiropractor performing side posture adjustments: a pilot study using a motion capture system. Platform presentation, ACC-RAC, March 2018.
- Russell BS, Wynd SE, Hosek RS, Owens EF, Hoiriis KT. Patient and practitioner perceptions of osteokinematics and kinetics of supine cervical spine manipulation: a pilot study. Platform presentation, ACC-RAC, March 2018.
- Schmidt AM, Russell BS, Hosek RS. Kinematics of piano performance. Poster presentation, American Society of Biomechanics, August 2018.
- Schmidt AM, Russell BS, Hosek RS. Analysis of kinematic variability in pianists: a pilot study. Poster presentation, ACC-RAC, March 2018.
- Owens EF, Hosek RS, Russell BS. Mechanical properties of a lumbar spine mannequin with variable stiffness control. Platform presentation, ACC-RAC, March 2018.
- Schmidt AM, Russell BS, Hosek RS. Kinematics of piano performance: a feasibility study. Poster presentation at the National Conference of Keyboard Pedagogy, July 2017.
- Schmidt AM, Russell BS, Hosek RS. Kinematics of piano performance: a feasibility study. Platform presentation at the International Conference for Research and Philosophy (IRAPS), Sherman Chiropractic College, October 2017.
- Owens EF, Russell BS, Weiner MT, Mullin LE, Hosek RS. Amplitude and speed of Gonstead technique side-posture lumbopelvic adjustments in humans [DC-2017 conference abstract]. J Chiropr Educ. 2017; 31(1).
- Herzog W, Kevorkian P, Russell BS, Alcantara J. The forces exerted by chiropractors on pediatric patients during high-speed low amplitude spinal manipulative treatments [DC-2017 conference abstract]. J Chiropr Educ. 2017; 31(1).
- Owens EF, Hosek RS, Mullin L, Dever L, Sullivan S, Russell BS. Changes in adjustment force, speed and direction factors in chiropractic students after 10 weeks undergoing standard technique training [conference abstract]. J Chiropr Educ. 2016; 30(1): 63. doi: <http://dx.doi.org/10.7899/JCE-15-22>.
- Capes M, Russell BS, Oz M, Hosek RS. Kinetic gait assessment before and after chiropractic lower extremity adjustments [conference abstract]. J Chiropr Educ. 2016; 30(1): 54.

- Weiner MT, Russell BS, Bishop A, Hosek RS. Motion capture analysis of students performing side posture set up and thrusts on a mannequin: a pilot study [conference abstract]. J Chiropr Educ. 2016; 30(1): 67-8.
- Bryson JD, Bryson LB, Russell BS. Kinematic evaluation comparing internal frame and frameless backpacks: a pilot study [conference abstract]. J Chiropr Educ. 2016; 30(1): 53.
- Russell BS, Hosek R, Hoiriis KT. Kinetic gait evaluation of three patients with foot and ankle injuries, before and after a limited protocol of chiropractic care [conference abstract]. J Chiropr Educ. 2015; 29(1): 103. DOI 10.7899/JCE-14-34.
- Owens EF, Hosek R, Mullin L, Dever L, Sullivan S, Russell B. Thrust magnitudes, rates and 3-dimensional directions delivered in simulated lumbar spine HVLA adjustments. [poster presentation, 2015 World Federation of Chiropractic 13th Biennial Congress.]
- Russell BS, Hosek R, Hoiriis KT, Linkhorn AE. Kinetic evaluation of gait in an injured football player before and after chiropractic care [conference abstract]. J Chiropr Educ 2014;28(1):97.
- Russell BS, Geil MD, Wu J, Hoiriis KT. Variability of vertical ground reaction forces in adults with chronic low back pain, before and after a limited protocol of chiropractic care [conference abstract]. Annual meeting of the American Society of Biomechanics, 2013.
- Russell BS, Muhlenkamp Wermert KM, Hoiriis KT. Measurement of lordosis by the Spinal Mouse as compared to lateral lumbar radiographs [conference abstract]. Proceedings of the World Federation of Chiropractic, 12th Biennial Congress, 2013: 216.
- Russell B, Geil M, Wu J, Hoiriis K. Asymmetry of vertical ground reaction forces during walking in adults with chronic low back pain, before and after chiropractic care [conference abstract]. J Chiropr Educ 2013;27(1):78.
- Russell BS, Geil MD, Wu J, Hoiriis KT. Variability of vertical ground reaction forces in patients with chronic low back pain, before and after chiropractic care [conference abstract]. J Chiropr Educ 2012;26(1):108.
- Minicozzi SJ, Russell BS, Ray KJ. Low back pain response to pelvic tilt position: practice-based research, phase 2 [conference abstract]. J Chiropr Educ. 2011;25(1):91.
- Russell BS, Muhlenkamp KM, Hoiriis KT. Evaluation of lumbar lordosis with and without high-heeled shoes [conference abstract]. Annual Meeting for the American Society of Biomechanics, 2009.
- Minicozzi SJ, Russell BS. Low back pain response to pelvic tilt position: a preliminary report [conference abstract]. J Chiropr Educ. 2008; 22(1):70-1.
- Russell BS. Gait analysis of patients with low back pain, before and after spinal manipulation: a preliminary report [conference abstract]. J Chiropr Educ. 2007; 21(1):120.

	<ul style="list-style-type: none"> <li>• Russell BS. Documenting gait changes in patients with low back pain, before &amp; after spinal manipulation [review &amp; proposed research]. Southeast Biomechanics Conference, Georgia Institute of Technology, 2006.</li> </ul>
NON-PEER-REVIEWED PUBLICATIONS	<ul style="list-style-type: none"> <li>• Russell BS. Somnambulance and other surprises. Hektoen International Journal of Medical Humanities. 2018 Winter: Available at: <a href="https://hekint.org/2018/03/27/somnambulance-and-other-surprises/">https://hekint.org/2018/03/27/somnambulance-and-other-surprises/</a></li> <li>• Minicozzi SJ, Khajavi K, Hutchinson A, Russell BS. Case study: chiropractic and surgical interprofessional consultation in an adolescent patient undergoing lumbar fusion. Chiropractic Economics. 2017, August 28: <a href="https://www.chiroeco.com/interprofessional-consultation/">https://www.chiroeco.com/interprofessional-consultation/</a></li> </ul>
FUNDING & AWARDS	<ul style="list-style-type: none"> <li>• Research awards, Life University: annually, 2007 – 2018.</li> <li>• 2017: \$1,000 travel stipend for the <i>Process of Integrating Evidence</i> conference, July 13-15, Northwestern Health Sciences University; funding from the NIH's <i>National Center for Complementary &amp; Integrative Health</i> (NCCIH) and NCMIC Foundation.</li> <li>• 2017: Organized Center for Chiropractic Research purchase of integrated video camera and updated MyoMotion system software. Internal funding by Life University, approximately \$2,500.</li> <li>• 2016: Organized the Center for Chiropractic Research purchase of an analog-to-digital conversion unit, force plate digital amplifier, and additional inertial measurement units for the MyoMotion system. Internal funding by Life University, approximately \$10,400.</li> <li>• 2015: Organized the Center for Chiropractic Research sponsorship of myself and 3 students to attend the Noraxon Biomechanics Symposium in Denver, Colorado. Internal funding by Life University, approximately \$2,000.</li> <li>• 2014: Organized the Center for Chiropractic Research purchase of a MyoMotion motion capture system. Internal funding by Life University. Funded total approximately \$27,000.</li> <li>• 2013: <i>Teaching and Practicing Evidence-Based Chiropractic</i>, University of Western States, Portland, Oregon, July 2013. Awarded travel stipend: \$1,000.</li> <li>• 2013: Organized the Center for Chiropractic Research purchase of an Ergostyle multi-drop flexion-distraction chiropractic table. Internal funding by Life University. Funded total approximately \$6,500.</li> <li>• 2013, Internal funding by Life University for the project, “Low back pain response to pelvic tilt position: an observational study of chiropractic patients”, paid to the Inspire Foundation for statistical consultation with Alexandra Shen Struebing. Funded total: \$1,000.</li> <li>• 2011: Organized the Center for Chiropractic Research purchase of a Zebris FDM-T instrumented treadmill system. Funded total approximately \$22,000.</li> <li>• 2010, funding by NCMIC Foundation for the project, “Variability of vertical ground reaction forces in patients with chronic low back pain, before and after chiropractic care.” Funded total: \$5,000.</li> </ul>

	<ul style="list-style-type: none"> <li>• 2010, Internal funding by Life University for the project, “Variability of vertical ground reaction forces in patients with chronic low back pain, before and after chiropractic care.” Funded total: about \$2,800.</li> <li>• 2008, Internal funding by Life University for the project, “Evaluation of lumbar lordosis with and without high-heeled shoes”, for purchase of equipment &amp; supplies and incentive payments to participants. Funded total: about \$5,300.</li> <li>• 2005, First Place, Faculty Division, Life University Research Colloquium, for a poster presentation of “A suspected case of ulnar tunnel syndrome relieved by chiropractic extremity adjustment methods”.</li> </ul>
<p>SELECTED OTHER PROJECTS, ETC.</p>	<ul style="list-style-type: none"> <li>• Supervision of Research Track Scholarship students, Anna-Marie Schmidt, Eric Merritt, and Michael Jendzruski, 2017-18.</li> <li>• Supervision of OSRSA Research Scholarship students: Jonathan and Lori Beth Bryson (2016-17), Michael Weiner (2015-17), Kathryn Ray (2010-12), Kimberly Muhlenkamp (2008-09), Nangyali Amin (2005-06).</li> <li>• Manuscript reviewer for <i>Journal of Manipulative and Physiological Therapeutics</i>, <i>Journal of Chiropractic Medicine</i>, and <i>Gait &amp; Posture</i>.</li> <li>• Representative for Life University at the <i>Process of Integrating Evidence</i> conference, at Northwestern Health Sciences University, Bloomington, Minnesota, July 2017.</li> <li>• Representative for Life University for the Consortium of Evidence-Informed Practice Educators (CEIPE).</li> <li>• Representative for Life University at the workshop <i>Teaching and Practicing Evidence-Based Chiropractic</i>, at the University of Western States, Portland, Oregon, July 2013.</li> <li>• Attended annual conventions of the National Association of IRB Leaders, 2012 and 2013.</li> <li>• 2012: updated training as an Injury Prevention Specialist with Future Industrial Technologies, Inc.</li> <li>• Represented Life University at the conference, <i>The Biology of Manual Therapies</i>, held at the National Center for Complementary and Alternative Medicine, Washington, DC, June 2005.</li> </ul>
<p>PERSONAL</p>	<ul style="list-style-type: none"> <li>• Married since 1980 to Katharine Durham Russell, graphic design manager with the Georgia Tech Communications &amp; Marketing department (retired August 2018); we have one daughter (Elizabeth) and one granddaughter (Ava.)</li> </ul>