

CURRICULUM VITA

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NAME: Jane C. Johnson

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EDUCATION:

Northwestern University, Evanston, IL	1981-1982	Mathematics
University of Missouri, Columbia, MO	B.A. 1982-1985	Mathematics
University of Missouri, Columbia, MO	M.A. 1989-1994	Statistics
Thesis: A Test Based on Ranks for Comparing Two Groups Relative to an Ordered Alternative with Longitudinal Data		
Advisor: John E. Hewett, Ph.D.		
University of Missouri, Columbia, MO	1994-2003	Statistics
Walden University, Minneapolis, MN	2013-2017	Public Health (Epidemiology)

HONORS AND AWARDS:

- Member of Sigma Xi, elected 1998
- Special Service Award, Kirksville Chapter, Sigma Xi, 2006

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

- American Statistical Association
- Sigma Xi, The Scientific Research Society

PROFESSIONAL EXPERIENCE:

Statistical Consultant, Campus Computing, University of Missouri-Columbia, 1985-1986

Computer Programmer/Analyst, Division of Biostatistics, University of Missouri, 1986-1994

Statistician, Integrated Technology Services (Biostatistics), University of Missouri, Columbia, MO, 1994-1999

Statistical Programming Consultant, Office of the Attorney General, State of Missouri, Jefferson City, MO, 1995-1996

Director, Office of Research Support, A.T. Still University of Health Sciences (ATSU), 1999-2010

Associate Research Investigator, Clinical Collaborative Department, The Forsyth Institute, Boston, MA, 2007-present

Senior Biostatistician, Office of Research Support, ATSU, 2011-2014

Scientist, A.T. Still Research Institute, ATSU, 2013-2014

Research Assistant Professor, A.T. Still Research Institute, ATSU, 2014-present

ACADEMIC EXPERIENCE:

Graduate Teaching Assistant, Department of Statistics, University of Missouri, 1998
(Introductory course in statistics)

Adjunct Assistant Professor, School of Health Management, ATSU, Kirksville, MO, 2000-2005
(Graduate program in health administration: Introductory course in statistics)

Instructor, Department of Family Medicine, Preventive Medicine, and Community Health,
Kirksville College of Osteopathic Medicine, ATSU, 2001-2008 (Graduate program in
biomedical sciences: Introductory courses in statistics, research design, and clinical research
design, and advanced course in statistics)

Graduate Faculty, Truman State University, Kirksville, MO, 2003-2004 (Thesis committee:
Cheri Dunham)

Graduate Advisory Committee Member, Master of Biomedical Sciences Program, Kirksville
College of Osteopathic Medicine, ATSU (Sean Martin, 2003; Samuel Pullen, 2003-2007)

OTHER PROFESSIONAL ACTIVITIES:

Faculty, research enrichment program for psychiatrists, funded by a NIDRR Research Training
Grant, 1991-1994, 1995-1998, and 1998-1999

Workshop presenter, Association of Rheumatology Health Professionals (previously the Arthritis
Health Professions Association) National Meetings, 1992, 1993, 1996, and 1998

Faculty, research enrichment program for doctors of osteopathic medicine, funded by a HRSA
Faculty Development in Family Medicine Grant, 1997-1998

Faculty, research enrichment program for personnel at the Missouri Rehabilitation Center, 1998

Member, Interdisciplinary Research Committee, ATSU, 1999-2011

Member, Institutional Review Board, ATSU, 1999-2011 and 2013-present

Reviewer, Internal grant programs, ATSU, 1999-2011

Reviewer, North American Primary Care Research Group, 2000-2011

Secretary, Kirksville Chapter of Sigma Xi, 2001-2005

Chair, Membership Committee, Kirksville Chapter of Sigma Xi, 2001-2003 and 2005-2009

Workshop presenter, North American Primary Care Research Group Annual Meeting, 2001,
2004, and 2005

Workshop presenter, Osteopathic Collaborative Clinical Trials Initiative Conference, 2001

Workshop presenter, Triennial International Congress Integrative Manual Medicine post-
conference, 2001

Reviewer, Annals of Family Medicine, 2002-present

Member, Administrative Team, A.T. Still Research Institute, ATSU, Kirksville, MO, 2002-2010

Math and Science Night presenter, Ray Miller Elementary School, Kirksville, MO, 2002
Reviewer, American Association of Colleges of Osteopathic Medicine, 2005-2009
Statistical Consultant, Annals of Family Medicine, 2006-present
Faculty Sponsor, LDS Student Association, ATSU, 2006-2008
Reviewer, Medical Education, 2007-present
President-elect/President/Past-president, Kirksville Chapter of Sigma Xi, 2009-2013
Associate Director, DO-Touch.NET, 2009-present
Reviewer, Journal of the American Osteopathic Association, 2012-present
Reviewer, American Osteopathic Association, 2016, 2020
Reviewer, BMC Complementary and Alternative Medicine, 2018-present

PEER-REVIEWED PUBLICATIONS:

Johnson JC, Degenhardt BF: Who Uses Osteopathic Manipulative Treatment? A Prospective, Observational Study Conducted by DO-Touch.NET. Journal of the American Osteopathic Association 119(12):802-12, 2019. doi:10.7556/jaoa.2019.133

Johnson JC, Degenhardt BF, Smith CK, Wolf TM, Peterson DF: Tool for Predicting Medical Student Burnout from Sustained Stress Levels: Factor Analysis of the Medical Education Hassles Scale-R. Journal of the American Osteopathic Association 118(3):170-80, 2018. doi:10.7556/jaoa.2018.036, PMID:29480917

Degenhardt BF, Johnson JC, Brooks WJ, Norman L: Characterizing Adverse Events Reported Immediately After Osteopathic Manipulative Treatment. Journal of the American Osteopathic Association 118(3):141-9, 2018. doi:10.7556/jaoa.2018.033, PMID:29480914

McDaniel D, Tilton E, Dominick K, Flory K, Ernest T, Johnson JC, Main D, Kondrashov P: Histological Characteristics of Knee Menisci in Patients with Osteoarthritis. Clinical Anatomy 30(6):805-10, 2017. doi:10.1002/ca.22920, PMID:28524271

Hassan SS, El-Shaarawy EA, Johnson JC, Youakim MF, Ettarh R: Incidence of Variations in Human Cadaveric Renal Vessels. Folia Morphologica 76(3):394-407, 2017. doi:10.5603/FM.a2017.0020, PMID:28281721

Fryer G, Bird M, Robbins B, Johnson JC: Acute Electromyographic Responses of Deep Thoracic Paraspinal Muscles to Spinal Manual Therapy Interventions. An Experimental, Randomized Cross-over Study. Journal of Bodywork and Movement Therapy 21:495-502, 2017. doi:10.1016/j.jbmt.2017.04.011, PMID:28750955

Degenhardt BF, Johnson JC, Fossum C, Andicochea CT, Stuart MT: Changes in Cytokines, Sensory Tests, and Self-reported Pain Levels After Manual Treatment of Low Back Pain. Clinical Spine Surgery 30(6):E690-701, 2017. doi:10.1097/BSD.0000000000000231, PMID:28632555

Petty JL, Kondrashov P, Johnson JC, Kondrashova T: Performance Assessment in Medical School Curricula: An Innovative Method of Evaluating Sonographic Skills Using Ultrasound Practical Examinations. Medical Science Educator 26(4):749-57, 2016. doi:10.1007/s40670-016-0281-4

- Crutchfield P, Johnson JC, Brandt L, Fleming D: The Limits of Deontology in Dental Ethics Education. International Journal of Ethics Education 1(2):183-200, 2016. doi:10.1007/s40889-016-0018-7
- Noll DR, Degenhardt BF, Johnson JC: Multicenter Osteopathic Pneumonia Study in the Elderly: Subgroup Analysis on Hospital Length of Stay, Ventilator-Dependent Respiratory Failure Rate, and In-hospital Mortality Rate. Journal of the American Osteopathic Association 116(9):574-87, 2016. doi:10.7556/jaoa.2016.117
- Snider KT, Schneider RP, Snider EJ, Danto JB, Lehnardt CW, Ngo CS, Johnson JC, Sheneman TA: Correlation of Somatic Dysfunction with Gastrointestinal Endoscopic Findings: An Observational Study. Journal of the American Osteopathic Association 116(11):358-69, 2016. doi:10.7556/jaoa.2016.076
- Lockwood MD, Kondrashova K, Johnson JC: Feasibility of Using Ultrasonography to Establish Relationships Among Sacral Base Position, Sacral Sulcus Depth, Body Mass Index, and Sex. Journal of the American Osteopathic Association 115(11):648-53, 2015. doi:10.7556/jaoa.2015.135
- Snider KT, Dowling DJ, Seffinger MA, Channell MK, Yao SC, Gustowski SM, Johnson JC, Pryor MJ: Effect of Table Trainer-to-Student Ratios on Outcome in Student Assessments of Cervical Muscle Energy Techniques. Journal of the American Osteopathic Association 115(9):556-64, 2015. doi:10.7556/jaoa.2015.113
- Fleming RK, Snider KT, Blanke JC, Johnson JC: The Effect of Osteopathic Manipulative Treatment on Length of Stay in Posterolateral Postthoracotomy Patients: A Retrospective Case Note Study. International Journal of Osteopathic Medicine 18(2):88-96, 2015. doi:10.1016/j.ijosm.2014.09.002
- Hon GA, Snider KT, Johnson JC: Variations in the Diagnosis and Treatment of Somatic Dysfunction Between Four Osteopathic Residency Programs. Journal of the American Osteopathic Association 115(5):294-303, 2015. doi:10.7556/jaoa.2015.060
- Kondrashov P, Johnson JC, Boehm K, Rice D, Kondrashova T: Impact of the Clinical Ultrasound Elective Course on Retention of Anatomical Knowledge by Second-year Medical Students in Preparation for Board Exams. Clinical Anatomy 28:156-63, 2015. doi:10.1002/ca.22494
- Snider KT, Johnson JC. Professionalism Score and Academic Performance in Osteopathic Medicine School Students. Journal of the American Osteopathic Association 114(11):850-9, 2014. doi:10.7556/jaoa.2014.171
- Yost MG, Johnson JC, Johns III MM, Burchett KD: Burnout Among Osteopathic Otolaryngology Residents: Identification During Formative Training Years. Journal of the American Osteopathic Association 114(8):632-41, 2014. doi:10.7556/jaoa.2014.128
- Snider EJ, Pamperin K, Johnson JC, Shurtz NR, Degenhardt BF: Assessing Palpation Thresholds of Osteopathic Medical Students Using Static Lumbar Spine Models. Journal of the American Osteopathic Association 114(6):460-9, 2014. doi:10.7556/jaoa.2014.096
- Snider KT, Johnson JC, Degenhardt BF, Snider EJ, Burton DC: The Association of Low Back Pain, Somatic Dysfunction, and Lumbar Bone Mineral Density: Reproducibility of Findings. Journal of the American Osteopathic Association 114(5):356-67, 2014.

doi:10.7556/jaoa.2014.073

Degenhardt BF, Johnson JC, Gross SR, Hagan C, Lund G, Curry WJ: Preliminary Findings on the Use of Osteopathic Manipulative Treatment: Outcomes During the Formation of the Practice-based Research Network, DO-Touch.NET. Journal of the American Osteopathic Association 114(3):154-70, 2014. doi:10.7556/jaoa.2014.033 Recipient: George W. Northup, DO, Medical Writing Award, 2015.

Snider KT, Johnson JC, Degenhardt BF, Snider EJ: The Persistence of Lumbar Somatic Dysfunction and its Association with Bone Mineral Density. Journal of the American Osteopathic Association 114(1):8-20, 2014. PMID: 24384969.

Snider KT, Snider EJ, DeGooyer BR, Bukowski AM, Fleming RK, Johnson JC: Retrospective Medical Record Review of an Osteopathic Manipulative Medicine Hospital Consultation Service. Journal of the American Osteopathic Association 113(10):754-67, 2013. PMID: 24084802

Ruhlen RL, Snider EJ, Sargentini NJ, Worthington BD, Singh VK, Pazdernik VK, Johnson JC, Degenhardt BF: Influence of Manual Therapy on Functional Mobility after Joint Injury in a Rat Model. Journal of the American Osteopathic Association 113(10):738-52,e48-9, 2013. PMID: 24084801

Snider KT, Glover JC, Rennie PR, Ferrill HP, Morris WF, Johnson JC: Frequency of Counterstrain Tender Points in Osteopathic Medical Students. Journal of the American Osteopathic Association 113(9):690-702, 2013. PMID: 24005089.

Snider KT, Snider EJ, Johnson JC, Hagan C, Schoenwald C: Preventative Osteopathic Manipulative Treatment and the Elderly Nursing Home Resident: A Feasibility Study. Journal of the American Osteopathic Association 112(8):489-501, 2012. PMID: 22904246.

Snider KT, Johnson JC: Survey of Billing and Coding for Counterstrain Tender Points. Journal of the American Osteopathic Association 112(6):356-65, 2012. PMID: 22707645.

Draper BB, Johnson JC, Fossum C, Chamberlain NR: Osteopathic Medical Students' Beliefs About Osteopathic Manipulative Treatment at 4 Colleges of Osteopathic Medicine. Journal of the American Osteopathic Association 111(11):615-30, 2011. PMID: 22104514.

Snider KT, Snider EJ, Degenhardt BF, Johnson JC, Kribs JW: Palpatory Accuracy of Lumbar Spinous Processes Using Multiple Bony Landmarks. Journal of Manipulative and Physiological Therapeutics 34(5):306-313, 2011.

Snider KT, Johnson JC, Degenhardt BF, Snider EJ: Low Back Pain, Somatic Dysfunction, and Segmental Bone Mineral Density T-score Variation in the Lumbar Spine. Journal of the American Osteopathic Association 111(2):89-96, 2011.

Fryer G, Johnson JC, Fossum C: The Use of Spinal and Sacroiliac Joint Procedures within the British Osteopathic Profession. Part 1: Assessment. International Journal of Osteopathic Medicine 13:143-151, 2010.

Fryer G, Johnson JC, Fossum C: The Use of Spinal and Sacroiliac Joint Procedures within the British Osteopathic Profession. Part 2: Treatment. International Journal of Osteopathic Medicine 13:152-159, 2010.

Degenhardt BF, Johnson JC, Snider KT, Snider EJ: Maintenance and Improvement of

- Interobserver Reliability of Osteopathic Palpatory Tests Over a 4-Month Period. Journal of the American Osteopathic Association 110(10):579-586, 2010.
- Noll DR, Degenhardt BF, Morley TF, Blais FX, Hortos KA, Hensel K, Johnson JC, Pasta DJ, Stoll ST: Efficacy of Osteopathic Manipulation as an Adjunctive Treatment for Hospitalized Patients with Pneumonia: A Randomized Controlled Trial. Osteopathic Medicine and Primary Care 4:2, 2010.
- Fryer G, Bird M, Robbins B, Fossum C, Johnson JC: Resting Electromyographic Activity of Deep Thoracic Transversospinalis Muscles Identified as Abnormal with Palpation. Journal of the American Osteopathic Association 110(2):61-68, 2010.
- Noll DR, Johnson JC, Baer RW, Snider EJ: The Immediate Effect of Individual Manipulation Techniques on Pulmonary Function Measures in Persons with Chronic Obstructive Pulmonary Disease. Osteopathic Medicine and Primary Care 3:9, 2009.
- Fryer G, Morse CM, Johnson JC: Spinal and Sacroiliac Assessment and Treatment Techniques Used by Osteopathic Physicians in the United States. Osteopathic Medicine and Primary Care 3:4, 2009.
- Halma KD, Degenhardt BF, Snider KT, Johnson JC, Flaim MS, Bradshaw D: Intraobserver Reliability of Cranial Strain Patterns as Evaluated by Osteopathic Physicians: A Pilot Study. Journal of the American Osteopathic Association 108(9):493-502, 2008.
- Snider KT, Johnson JC, Snider EJ, Degenhardt BF: Increased Incidence and Severity of Somatic Dysfunction in Subjects With Chronic Low Back Pain. Journal of the American Osteopathic Association 108(8):372-378, 2008.
- Noll DR, Degenhardt BF, Johnson JC, Burt SA: The Immediate Effect of Osteopathic Manipulative Treatment on Pulmonary Function parameters in the Elderly with Chronic Obstructive Pulmonary Disease. Journal of the American Osteopathic Association 108(5):251-259, 2008.
- McGovern RJ, Lee MM, Johnson JC, Morton B: ElderLynk: A Community Outreach Model for the Integrated Treatment of Mental Health Problems in the Rural Elderly. Ageing International 32(1):43-53, 2008.
- Snider KT, Kribs JW, Snider EJ, Degenhardt BF, Bukowski A, Johnson JC: Reliability of Tuffier's Line as an Anatomic Landmark. Spine 33(6):E161-E165, 2008.
- Noll DR, Johnson JC, Brooks J: Revisiting Castlio and Ferris-Swift's Experiments on Direct Splenic Stimulation in Patients With Acute Infectious Disease. Journal of the American Osteopathic Association 108(2):71-79, 2008. Correction: Journal of the American Osteopathic Association 108(4):215, 2008.
- Degenhardt BF, Darmani NA, Johnson JC, Towns LC, Rhodes DCJ, Trinh C, McClanahan B, DiMarzo V: Role of Osteopathic Manipulative Treatment in Altering Pain Biomarkers: A Pilot Study. Journal of the American Osteopathic Association 107(9):387-400, 2007.
- Koch AJ, Wherry AD, Peterson MC, Johnson JC, Stuart MK, Sexton WL: Salivary Immunoglobulin A Response to a Collegiate Rugby Game. Journal of Strength and Conditioning Research 21(1):86-90, 2007.
- Smith CM, Peterson DF, Degenhardt BF, Johnson JC: Depression, Anxiety, and Perceived

- Hassles Among Entering Medical Students. Psychology, Health, & Medicine 12(1):31-39, 2007.
- Noll DR, Johnson JC: Revisiting Castlio and Ferris-Swift's Experiments Testing the Effects of Splenic Pump in Normal Individuals. International Journal of Osteopathic Medicine 8(4):124-130, 2005.
- Degenhardt BF, Snider KT, Snider EJ, Johnson JC: Interobserver Reliability of Osteopathic Palpatory Diagnostic Tests of the Lumbar Spine: Improvements From Consensus Training. Journal of the American Osteopathic Association 105(10):465-473, 2005.
- Noll DR, Degenhardt BF, Stuart MK, Werden S, McGovern RJ, Johnson JC: The Effect of Osteopathic Manipulative Treatment on Immune Response to the Influenza Vaccine in Nursing Home Residents: A Pilot Study. Alternative Therapies in Health and Medicine 10(4):74-76, 2004.
- Darmani NA, Johnson JC: Central and Peripheral Mechanisms Contribute to the Antiemetic Actions of Delta-9-Tetrahydrocannabinol Against 5-Hydroxytryptophan-Induced Emesis. European Journal of Pharmacology 488:201-212, 2004.
- Webster JB, Parker JC, Moore DP, Johnson JC: Research Activities and Perspectives of Individuals Completing a Research Enrichment Program for Physiatrists. American Journal of Physical Medicine & Rehabilitation 82(5):403-409, 2003.
- Gay RE, Amadio PC, Johnson JC: Comparative Responsiveness of the Disabilities of the Arm, Shoulder, and Hand, the Carpal Tunnel Questionnaire, and the SF-36 to Clinical Change after Carpal Tunnel Release. The Journal of Hand Surgery 28A(2):250-254, 2003.
- Yates HA, Vardy TC, Kuchera ML, Ripley B, Johnson JC: Effects of Osteopathic Manipulative Treatment and Concentric and Eccentric Maximal-Effort Exercise on Women with Multiple Sclerosis: A Pilot Study. Journal of the American Osteopathic Association 102(5):267-274, 2002.
- McMahon MA, Noll RB, Michaud LJ, Johnson JC: Sibling Adjustment to Pediatric Traumatic Brain Injury: A Case-Controlled Pilot Study. Journal of Head Trauma Rehabilitation 16(6):587-594, 2001.
- Longo DR, Johnson JC, Kruse RL, Brownson RC, Hewett JE: A Prospective Investigation of the Impact of Smoking Bans on Tobacco Cessation and Relapse. Tobacco Control 10(3):267-272, 2001.
- Newcomer KL, Laskowski ER, Yu B, Johnson JC, An KN: The Effects of a Lumbar Support on Repositioning Error in Subjects with Low Back Pain. Archives of Physical Medicine and Rehabilitation 82(7):906-910, 2001.
- McCaw DL, Boon GD, Jergens AE, Kern MR, Bowles MH, Johnson JC: Immunomodulation Therapy for Feline Leukemia Virus Infection. Journal of the American Animal Hospital Association 37:356-363, 2001.
- Sun J, Kim Y, Hewett J, Johnson JC, Farmer J, Gibler M: Evaluation of Traffic Injury Prevention Programs Using Counting Process Approaches. Journal of the American Statistical Association 96(454):469-475, 2001.

- Rhee SH, Parker JC, Smarr KL, Petroski GF, Johnson JC, Hewett JE, Wright GE, Multon KD, Walker SE: Stress Management in Rheumatoid Arthritis: What Is the Underlying Mechanism? Arthritis Care and Research 13(6):435-442, 2000.
- Logan RA, Nuttall RJ, Hazelwood SE, Parker JC, Johnson JC, Hewett JE, Reid JC: Audience Motivations to Use an Arthritis Website. Arthritis Care and Research 13(5):320-329, 2000.
- Tomlinson JL, Johnson JC: Quantification of Measurement of Femoral Head Coverage and Norberg Angle within and among Four Breeds of Dogs. American Journal of Veterinary Research 61(12):1492-1500, 2000.
- Hagglund KJ, Vieth AZ, Sadler CS, Johnson JC, Hewett JE: Caregiver Personality Characteristics and Adaptation to Juvenile Rheumatic Disease. Rehabilitation Psychology 45(3):242-259, 2000.
- Newcomer KL, Laskowski ER, Yu B, Johnson JC, An KN: Differences in Repositioning Error in Low Back Pain Subjects Compared with Control Subjects. Spine 25(19):2488-2493, 2000.
- Cutter NC, Scott DD, Johnson JC, Whiteneck G: Gabapentin Effect on Spasticity in Multiple Sclerosis: A Placebo-Controlled, Randomized Trial. Archives of Physical Medicine and Rehabilitation 81:164-169, 2000.
- Farmer J, Gibler M, Kavanaugh R, Johnson J: Preventing Traumatic Brain Injury: An Innovative Approach to Outcomes Assessment. Brain Injury 14(2):109-115, 2000.
- Cohn LA, McCaw DL, Tate DJ, Johnson JC: Assessment of Five Portable Blood Glucose Meters, a Point-of-Care Analyzer, and Color Test Strips for Measuring Blood Glucose Concentration in Dogs. Journal of the American Veterinary Medical Association 216(2):198-202, 2000.
- Johnstone B, Vieth AZ, Johnson JC, Shaw JA: Recall as a Function of Single Versus Multiple Trials: Implications for Rehabilitation. Rehabilitation Psychology 45(1):3-19, 2000.
- Elmore JR, Heymann H, Johnson J, Hewett JE: Preference Mapping: Relating Acceptance of "Creaminess" to a Descriptive Sensory Map of a Semi-Solid. Food Quality and Preference 10:465-475, 1999.
- Tomlinson JL, Cook JL, Payne JT, Anderson CC, Johnson JC: Closed Reduction and Lag Screw Fixation of Sacroiliac Luxations and Fractures. Veterinary Surgery 28:188-193, 1999.
- Lutz PM, Wilson TJ, Ireland J, Jones AL, Gorman JS, Gale NL, Johnson JC, Hewett JE: Elevated Immunoglobulin E (IgE) Levels in Children with Exposure to Environmental Lead. Toxicology 134:63-78, 1999.
- Chen YJ, Hewett J, Wang Y, Johnson J: A Rank Test for Equality of Two Multivariate Populations vs a Particular Ordered Alternative. Computational Statistics & Data Analysis 29:129-144, 1999.
- Early DS, Saifuddin T, Johnson JC, King PD, Marshall JB: Patient Attitudes Toward Undergoing Colonoscopy Without Sedation. American Journal of Gastroenterology 94(7):1862-1865, 1999.

- Burdet MA, Hoffman RW, Deutscher SL, Wang GS, Johnson JC, Sharp GC: Long-Term Outcome in Mixed Connective Tissue Disease: Longitudinal Clinical and Serologic Findings. Arthritis & Rheumatism 42(5):899-909, 1999.
- Rossy LA, Buckelew SP, Dorr N, Hagglund KJ, Thayer JF, McIntosh MJ, Hewett JE, Johnson JC: A Meta-Analysis of Fibromyalgia Treatment Interventions. Annals of Behavioral Medicine 21(2):180-191, 1999.
- Huyser BA, Parker JC, Thoreson R, Smarr KL, Johnson JC, Hoffman R: Predictors of Subjective Fatigue Among Individuals with Rheumatoid Arthritis. Arthritis & Rheumatism 41(12):2230-2237, 1998.
- Farwell W, Simonyi A, Scott H, Zhang JP, Carruthers V, Madsen R, Johnson J, Sun GY: Effects of Ischemic Tolerance on mRNA Levels of IP₃R1, β -Actin, and Neuron-Specific Enolase in Hippocampal CA1 Area of the Gerbil Brain. Neurochemical Research 23(4):539-542, 1998.
- Frank RG, Thayer JF, Hagglund KJ, Vieth AZ, Schopp LH, Beck NC, Kashani JH, Goldstein DE, Cassidy JT, Clay DL, Chaney JM, Hewett JE, Johnson JC: Trajectories of Adaptation in Pediatric Chronic Illness: The Importance of the Individual. Journal of Consulting and Clinical Psychology 66(3):521-532, 1998.
- Frank RG, Hagglund KJ, Schopp LH, Thayer JF, Vieth AZ, Cassidy JT, Goldstein DE, Beck NC, Clay DL, Hewett JE, Johnson JC, Chaney JM, Kashani JH: Disease and Family Contributors to Adaptation in Juvenile Rheumatoid Arthritis and Juvenile Diabetes. Arthritis Care and Research 11(3):166-176, 1998.
- Buckelew SP, Conway R, Parker J, Deuser WE, Read J, Witty TE, Hewett JE, Minor M, Johnson JC, Van Male L, McIntosh MJ, Nigh M, Kay DR: Biofeedback/Relaxation Training and Exercise Interventions for Fibromyalgia: A Prospective Trial. Arthritis Care and Research 11(3):196-209, 1998.
- Wright GE, Parker JC, Smarr KL, Johnson JC, Hewett JE, Walker SE: Age, Depressive Symptoms, and Rheumatoid Arthritis. Arthritis & Rheumatism 41(2):298-305, 1998.
- McCaw DL, Tate D, Dubovi EJ, Johnson JC: Early Protection of Puppies Against Canine Parvovirus: A Comparison of Two Vaccines. Journal of the American Animal Hospital Association 33:244-250, 1997.
- Fugate LP, Spacek LA, Kresty LA, Levy CE, Johnson JC, Mysiw WJ: Measurement and Treatment of Agitation Following Traumatic Brain Injury: II. A Survey of the Brain Injury Special Interest Group of the American Academy of Physical Medicine and Rehabilitation. Archives of Physical Medicine and Rehabilitation 78:924-928, 1997.
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- McCaw DL, Miller MA, Bergman PJ, Withrow SJ, Moore AS, Knapp DW, Fowler D, Johnson JC: Vincristine Therapy For Mast Cell Tumors in Dogs. Journal of Veterinary Internal Medicine 11(6):375-378, 1997.

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- Huysen B, Buckelew SP, Hewett JE, Johnson JC: Factors Affecting Adherence to Rehabilitation Interventions for Individuals With Fibromyalgia. Rehabilitation Psychology 42(2):75-91, 1997.
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- Minor MA, Johnson JC: Reliability and Validity of a Submaximal Treadmill Test to Estimate Aerobic Capacity in Women with Rheumatic Disease. The Journal of Rheumatology 23(9):1517-1523, 1996.
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- Levy CE, Nishida T, Speckman P, Barkov G, Johnson JC: Three-Dimensional Vector Graphing of the H Reflex. American Journal of Physical Medicine & Rehabilitation 75(3):188-193, 1996.
- Wright GE, Parker JC, Smarr KL, Schoenfeld-Smith K, Buckelew SP, Slaughter JR, Johnson JC, Hewett JE: Risk Factors for Depression in Rheumatoid Arthritis. Arthritis Care and Research 9(2):264-272, 1996.
- Haghighi SS, Sirintrapun SJ, Johnson JC, Keller BP, Oro JJ: Suppression of Spinal and Cortical Somatosensory Evoked Potentials by Desflurane Anesthesia. Journal of Neurosurgical Anesthesiology 8(2):148-153, 1996.
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- Buckelew SP, Huysen B, Hewett JE, Parker JC, Johnson JC, Conway R, Kay DR: Self-Efficacy Predicting Outcome among Fibromyalgia Subjects. Arthritis Care and Research 9(2):97-104, 1996.
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- Parker JC, Smarr KL, Buckelew SP, Stucky-Ropp RC, Hewett JE, Johnson JC, Wright GE, Irvin WS, Walker SE: Effects of Stress Management on Clinical Outcomes in Rheumatoid Arthritis. Arthritis & Rheumatism 38(12):1807-1818, 1995.

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- Tsutakawa RK, Johnson JC: The Effect of Uncertainty of Item Parameter Estimation on Ability Estimates. Psychometrika 55(2):371-390, 1990.

PUBLISHED WORK PRODUCTS:

- Franklin GA, Johnson JC: ATSU-ATSRI/EACJR: General Release (Version v1.0.0). Zenodo, 2018. doi:10.5281/zenodo.1470669

SELECTED PRESENTATIONS AND PUBLISHED ABSTRACTS:

- Johnson JC, Degenhardt BF. Somatic Dysfunction Findings, Osteopathic Manipulative Treatment (OMT), and Response to OMT in Patients with Lumbago and Cervicalgia. Journal of the American Osteopathic Association 114(8):e86-7, 2014. (Abstract)
- Degenhardt BF, Johnson JC, Hammond T, Snider KT, Snider EJ, Pamperin K, Webb S, Graven-Nielsen T. Pressure Pain Thresholds are Altered as a Result of Variations in Technique When Examining Tender Points. Journal of the American Osteopathic Association 114(8):e89, 2014. (Abstract)
- Lockwood MD, Kondrashova T, Johnson JC. Relationship Between Sacral Base Position, Sacral Sulcus Depth, Gender, and Body Mass Index as Measured by Ultrasonography. Journal of the American Osteopathic Association 113(8):e5-6, 2013. (Abstract)

- Snider KT, Johnson JC, Degenhardt BF, Snider EJ. Persistence of Lumbar Somatic Dysfunction and Its Association With Bone Mineral Density. Journal of the American Osteopathic Association 113(8):e8-9, 2013. (Abstract)
- Degenhardt BF, Johnson JC, Hagan C: Osteopathic Manipulation Reduces Pain and Improves Quality of Life. International Journal of Osteopathic Medicine 16(1):e11-2, 2013. (Abstract)
- Yost M, Johnson JC, Burchett K. Burnout Among Osteopathic Otolaryngology Residents: Identification, Prevention, and Treatment During Formative Training Years. Journal of the American Osteopathic Association 112(8):529-30, 2012. (Abstract)
- Snider EJ, Pamperin KL, Johnson JC, Shurtz NR, Degenhardt BF. Assessing Palpation Thresholds Using Static Lumbar Spine Models. Journal of the American Osteopathic Association 112(8):534-5, 2012. (Abstract)
- Degenhardt BF, Snider KT, Johnson JC, Snider EJ, Pamperin K, Yang Q, Graven-Nielsen T. Reliability of Pressure Pain Thresholds in the Supraspinatus Muscle – Palpation and Algometry. Journal of the American Osteopathic Association 112(8):546-7, 2012. (Abstract)
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- Worthington BD, Ruhlen RL, Snider EJ, Johnson JC, Singh VK, Sargentini NJ: A Rat Model of Ankle Injury to Test Efficacy of Manual Treatment for Pain Relief. Journal of the American Osteopathic Association 112(1):44-45, 2012. (Abstract)
- Draper BB, Johnson JC, Chamberlain N: What Drew You to Osteopathic Medicine? A Survey of Osteopathic Medical Students From 10 Schools. Journal of the American Osteopathic Association 111(8):488, 2011. (Abstract)
- Bazaldua O, Miller WL, Dolovich L, Burge SK, Pluye P, Johnson JC: A Multidisciplinary Panel: Enhancing the Research Team With Diverse Roles. A panel presentation at the 38th Annual Meeting of the North American Primary Care Research Group, Seattle, WA, Nov 16, 2010.
- Noll DF, Degenhardt BF, Morley TF, Blais FX, Hortos KA, Hensel K, Johnson JC, Pasta DJ, Stoll ST: MOPSE: The Primary Outcomes. An oral presentation at the 115th Annual Osteopathic Medical Conference and Exposition, San Francisco, CA, October 25, 2010.
- Noll DR, Degenhardt BF, Blais FX, Dillard L, Hensel KL, Hortos KA, Johnson JC, Mason D, Morley TF: MOPSE: Panel Discussion and Question-and-Answer Session with the Investigators. A panel presentation at the 115th Annual Osteopathic Medical Conference and Exposition, San Francisco, CA, October 25, 2010.
- Degenhardt BF, Johnson JC, Hagan C, Halma KD: Establishment of DO-Touch.NET, an OMM Practice-Based Research Network. Journal of the American Osteopathic Association 110(8):451-2, 2010. (Abstract)
- Degenhardt BF, Johnson JC, Yang Q, Pamperin K, Noll DR: Characterizing Osteopathic Manipulative Techniques Used in Treating Pneumonia During the MOPSE Study. Journal of the American Osteopathic Association 110(8):452, 2010. (Abstract)

- Degenhardt BF, Houser JJ, Bird M, Johnson JC, Shurtz N, Yang Q, Mueller G, Pamperin K: Evaluating Muscle Activation Asymmetry in Women with Low Back Pain Syndromes. Journal of the American Osteopathic Association 110(8):457-8, 2010. (Abstract)
- Holbrook NB, Fryer G, Johnson JC, Holbrook C: Osteopathic Manipulative Treatments in the Emergency Department: Osteopathic Emergency Physicians' Perspectives. Journal of the American Osteopathic Association 110(1):25, 2010. (Abstract)
- Johnson JC, Degenhardt BF, Smith CK, Wolf TM, Peterson DF: Factor Structure of the Medical Education Hassles Scale-R. A poster presentation at the 37th Annual Meeting of the North American Primary Care Research Group, November 17, 2009.
- Snider KT, Snider EJ, Bukowski AM, Johnson JC, DeGooyer BR: Creation of a Database Template for Performing a Retrospective Chart Review of an OMM Hospital Consultation Service. Journal of the American Osteopathic Association 109(8):428, 2009. (Abstract)
- Snider KT, Snider EJ, DeGooyer BR, Johnson JC, Bukowski AM: Retrospective Chart Review of the OMM Hospital Consultation Service at NRMC – Preliminary Results. Journal of the American Osteopathic Association 109(8):429, 2009. (Abstract)
- Fryer G, Bird M, Robbins B, Johnson JC: Investigation of an Electromyographic Normalization Task for the Deep Thoracic Paraspinal Muscles. International Journal of Osteopathic Medicine 11(4):163, 2008. (Abstract)
- Fryer G, Morse C, Johnson JC: Spinal and Sacroiliac Joint Assessment and Treatment within the American Osteopathic Profession. International Journal of Osteopathic Medicine 11(4):166-167, 2008. (Abstract)
- Degenhardt BF, Johnson JC, Yang Q: Comparing Objective Characteristics of Lumbar and Sacral Somatic Dysfunction Between Low Back Pain and Control Subjects. Journal of the American Osteopathic Association 108(8):417-418, 2008. (Abstract)
- Degenhardt BF, Johnson JC, Yang Q: Characteristics of Hip Bone Somatic Dysfunction in Subjects With and Without Low Back Pain. Journal of the American Osteopathic Association 108(8):430, 2008. (Abstract)
- Kuchera ML, Vardy TC, Yates H, Stouch B, Johnson JC: Prolonged Effects of Maximal Effort Exercise (with Valsalva) and Osteopathic Manipulative Treatment in Women with Multiple Sclerosis. Journal of the American Osteopathic Association 107(8):332, 2007. (Abstract)
- Johnson JC, Yens D: Design and Methods Issues in Clinical Research. A 90-minute workshop at the Osteopathic Collaborative Clinical Trials Initiative Conference VIII, March 19 and 20, 2007.
- Johnson JC: Statistical Analysis in OMM Clinical Trials. An oral presentation at the Osteopathic Collaborative Clinical Trials Initiative Conference VIII, March 19 and 20, 2007.
- Halma KD, Snider KT, Johnson JC, Flaim MS, Bradshaw D, Degenhardt BF: Determining the Intra-observer Reliability of the Evaluation of Cranial Strain Patterns. Journal of the American Osteopathic Association 106(8):471, 2006. (Abstract)
- Noll DR, Johnson J, Snider E: Operator Differences in the Use of Thoracic Lymphatic Pump Technique in Persons with COPD. Journal of the American Osteopathic Association 106(8):474, 2006. (Abstract)

- Harpenau CM, Inoue A, Johnson JC, Chamberlain NR, Jadoon-Khamash E, Noll DR: The Immediate Effects of the Splenic Pump Technique on Blood Cell Counts in Normal Adults. Journal of the American Osteopathic Association 106(8):474, 2006. (Abstract)
- Inoue A, Harpenau CM, Chamberlain NR, Johnson JC, Jadoon-Khamash E, Noll DR: The Immediate Effects of the Splenic Pump on Serum Level of C-reactive Protein in Normal Adults. Journal of the American Osteopathic Association 106(8):474-475, 2006. (Abstract)
- Degenhardt BF, Yang Q, Johnson JC: Examiners Prioritize Displacement Over Pressure and Force Measurements When Diagnosing Rotational Thoracic Vertebral Motion. Journal of the American Osteopathic Association 106(8):476, 2006. (Abstract)
- Rivera-Martinez S, Degenhardt B, Howell J, Johnson J: Issues of Reliability. A panel presentation at the 49th Annual Research Conference of the American Osteopathic Association, October 26, 2005.
- Degenhardt BF, Eitel N, Heard JT, Johnson JC, Sublette G: Designing Residency Research. A 3-hour workshop presented at the 49th Annual Research Conference of the American Osteopathic Association, October 24, 2005.
- Johnson JC: How Many Subjects Will I Need? A 90-minute workshop presented at the 33rd Annual Meeting of the North American Primary Care Research Group, October 18, 2005.
- Johnson JC: Regression Analysis: Logistic, Polychotomous, Poisson, and Linear. A 90-minute workshop presented at the 32nd Annual Meeting of the North American Primary Care Research Group, October 12, 2004.
- Noll DR, Baer RW, Sexton WL, Johnson J, Snider E, Slocum PC: Effect of Thoracic Lymphatic Pump with and without Activation on Pulmonary Residual Volumes in COPD. Journal of Osteopathic Medicine 7(2):99-100, 2004. (Abstract)
- Degenhardt BF, Darmani N, Towns L, Rhodes DCJ, Trinh C, Johnson JC: Investigating the Effect of OMT on Circulatory Biochemical Markers. Journal of the American Osteopathic Association 103(8):343, 2004. (Abstract)
- Degenhardt BF, Johnson JC, Yang Q, Burt SA, Powell W: Objectifying the Reliability of Palpatory Tests Assessing Positional Asymmetry. Journal of the American Osteopathic Association 103(8):343, 2004. (Abstract)
- Caldwell CT, Degenhardt BF, Johnson JC, Hoberman CJ: Patient-reported Outcomes of Osteopathic Manipulative Treatment, The Development of a Research Tool. Journal of the American Osteopathic Association 103(8):378, 2003. (Abstract)
- Degenhardt BF, Kenney RG, McGovern RJ, Johnson JC: Impact of Osteopathic Manual Medicine in Patients with Knee Osteoarthritis. Journal of the American Osteopathic Association 102(8):443, 2002. (Abstract)
- Degenhardt BF, Snider KT, Johnson JC, Snider EJ: Interexaminer Reliability of Osteopathic Palpatory Evaluation of the Lumbar Spine. Journal of the American Osteopathic Association 102(8):442, 2002. (Abstract)
- Noll DR, Degenhardt BF, Johnson JC, Burt SA: The Immediate Effect of OMT on Pulmonary Function Parameters in Obstructive Pulmonary Disease. Journal of the American Osteopathic Association 102(8):442, 2002. (Abstract)

- Snider KT, Degenhardt BF, Johnson JC, Snider EJ: Somatic Dysfunction and Segmental BMD T-Score Variation in the Lumbar Spine. Journal of the American Osteopathic Association 102(8):441, 2002. (Abstract)
- Noll DR, Degenhardt BF, Johnson JC, Burt SA: Can a Sham Treatment Blind Subjects with Obstructive Lung Disease to Group Assignment? Journal of the American Osteopathic Association 102(8):439, 2002. (Abstract)
- Degenhardt BF, Snider KT, Johnson JC, Snider EJ: Retention of Interexaminer Reliability in Palpatory Evaluation of the Lumbar Spine. Journal of the American Osteopathic Association 102(8):439, 2002. (Abstract)
- Johnson JC: Relationships with IRBs. A 90-minute workshop and 30-minute recap presented at the Osteopathic Collaborative Clinical Trials Initiative Conference III, October 25 and 26, 2001.
- Johnson JC: Statistical Techniques to Compare Independent Groups on a Continuous Outcome Measure From a Pre-/Post-Intervention Design. A 90-minute workshop presented at the 29th Annual Meeting of the North American Primary Care Research Group, October 15, 2001.
- Johnson JC: Small Group Follow-up – Statistical Analysis of Pilot Activities. A 90-minute workshop presented at the 13th Triennial International Congress Integrative Manual Medicine post-conference “Tools for Scientific Investigation in Manual Medicine Research”, July 29, 2001.
- Eland DC, Degenhardt BF, Johnson JC, Peterson DF: The Effect of Curricular Model, Problem Based vs Lecture Based, on Trends toward Anxiety and Depression in First Year Osteopathic Medical Students. Journal of the American Osteopathic Association 100(8):517, 2000. (Abstract)
- Degenhardt BF, Eland DC, Johnson JC, Peterson DF: Impact of an Holistic Wellness Program on the Severity of Stress Perceived by Osteopathic Medical Students. Journal of the American Osteopathic Association 100(8):516, 2000. (Abstract)
- Yates HA, Johnson JC: Opinions toward the Use of OMT by Oklahoma D.O.s Responding to Surveys in 1984 and 1999. Journal of the American Osteopathic Association 100(8):514, 2000. (Abstract)
- Werden SD, Noll DR, Stuart M, Johnson JC, Degenhardt BF: Quantitative Analysis of Elderly Immune Responses to Influenza Vaccination with Osteopathic Manipulation. Journal of the American Osteopathic Association 100(8):513, 2000. (Abstract)
- Noll DR, Degenhardt BF, Johnson JC, Matteson M: A Pilot Study using OMT to Reduce Antibiotic Use in Nursing Home Residents. Journal of the American Osteopathic Association 100(8):513, 2000. (Abstract)
- Noll DR, Degenhardt BF, Johnson JC, Matteson M: A Sham Treatment Protocol to Blind Nursing Home Residents to Group Assignment. Journal of the American Osteopathic Association 100(8):513, 2000. (Abstract)
- Noll DR, Gamber RG, Swift J, Johnson JC: Somatic Dysfunction Findings from the OMT in the Elderly Hospitalized with Pneumonia Study. Journal of the American Osteopathic Association 99(8):422, 1999. (Abstract)

Hewett JE, Johnson JC: Appropriate Use of Covariate Analyses in Arthritis Research. A 90-minute workshop presented at the National Meeting of the Association of Rheumatology Health Professionals, November 9, 1998.

Hewett JE, Johnson JC: Statistical Methods Appropriate for Longitudinal Studies and Data Analyses. A 90-minute workshop presented at the National Meeting of the Association of Rheumatology Health Professionals, October 21, 1996. Arthritis & Rheumatism 39:S325, 1996. (Abstract)

Hewett JE, Johnson JC: Data Management. A 60-minute “Meet the Expert” session presented at the National Meeting of the Association of Rheumatology Health Professionals, October 20, 1996.

Hewett JE, Johnson JC: Evaluation of Measures and Interim Analyses for Longitudinal Studies. A 60-minute workshop presented at the National Meeting of the Arthritis Health Professions Association, November 10, 1993. Arthritis Care and Research 6(4):S17, 1993. (Abstract)

Hewett JE, Johnson JC: Statistical Methods and Inferences for Research in Arthritis with Multiple Outcomes. A 75-minute workshop presented at the National Meeting of the Arthritis Health Professions Association, October 13, 1992. Arthritis Care and Research 5(4):S11, 1992. (Abstract)

Reid JC, Johnson JC: Starting a Patient Database for Chronic Disease. Proceedings of the AAMSI Congress 89 7:144-148, 1989.

GRANT-FUNDED RESEARCH (Limited to past 3 years):

Ongoing

Degenhardt (PI) 10/01/14 – 09/30/16
American Academy of Osteopathy *Responsibilities:* Co-Investigator
Patient-reported Adverse Events from Osteopathic Manipulative Treatment
Goal: To evaluate the incidence and severity of adverse events from osteopathic manipulative treatment.

Johnson (PI) 06/01/14 – 05/31/15
ATSU Strategic Research Fund *Responsibilities:* Principal Investigator
Patient-reported Side Effect of Osteopathic Manipulative Treatment
Goal: To evaluate the incidence and severity of osteopathic manipulative treatment side effects.

Snider (PI) 07/01/13 – 06/30/15
ATSU Warner/Fermaturo & Board of Trustees *Responsibilities:* Co-Investigator
The Effect of Table Trainer Ratios on Student Learning of Cervical Muscle Energy
Goal: To assess the effect of table trainer ratios on written and practical assessment scores.

Completed

Degenhardt (PI) 06/01/08 – 05/31/12
ATSU Strategic Research Fund *Responsibilities:* Co-Investigator
Establishment of the Osteopathic Manipulative Treatment Data Warehouse

Goal: To evaluate the utilization, safety, effectiveness, and costs associated with osteopathic manipulative treatment.

Yost (PI), Burchett (Faculty Mentor) 09/01/11 – 08/31/12
American Osteopathic Association Research Fellowship Responsibilities: Statistician
Burnout Among Osteopathic Otolaryngology Residents – Identification, Prevention, and
Treatment During Formative Training Years
Goal: To assess the extent, causes, and deterrents of burnout in osteopathic otolaryngology residents.

Houser (PI) 09/01/11 – 02/28/14
American Osteopathic Association Responsibilities: Statistician
Investigating Objective Functional Characteristics to Differentiate Subgroups in Chronic Low
Back Pain Patients
Goal: To determine if objective measurements of muscle activity and balance can consistently differentiate among low back pain, sacroiliac joint pain, and control.

Degenhardt (PI) 09/01/11 – 08/31/14
American Osteopathic Association Responsibilities: Co-Investigator
Use and Effectiveness of Osteopathic Manipulative Medicine in the Clinical Setting
Goal: To evaluate the utilization, effectiveness, and safety of osteopathic manipulative treatment using data collected in the clinical setting.

Snider (PI) 07/01/13 – 01/01/15
American Assoc of Colleges of Osteopathic Medicine Responsibilities: Co-Investigator
The Effect of Table Trainer Ratios on Student Learning of Cervical Muscle Energy
Goal: To assess the effect of table trainer ratios on written and practical assessment scores.

Snider (PI) 07/01/12 – 06/30/14
ATSU Strategic Research Fund Responsibilities: Statistician
Correlation of Somatic Dysfunction with Gastrointestinal Endoscopic Findings
Goal: To assess which types of somatic dysfunction correlate with gastrointestinal pathology.

CONTINUING EDUCATION:

Structural Equation Modeling Using Stata®, American Statistical Association, Joint Statistical Meetings, August 6, 2014. Instructor: Kristin MacDonald, M.S.

Applied Text Mining and Unstructured Data Analysis, American Statistical Association, Joint Statistical Meetings, August 2, 2014. Instructor: James Wisnowski, Ph.D.

Successful Data Mining in Practice. American Statistical Association (Kansas-Western Missouri Chapter), October 17, 2013. Instructor: Richard D. De Veaux, Ph.D.

Annual Research Intensive. Oregon Institute for Patient Centered Comparative Effectiveness, July 28-31, 2013.

Using Propensity Scores to Design and Analyze Observational Studies. American Statistical Association (Kansas-Western Missouri Chapter), Innovations in Design, Analysis and

Dissemination: Frontiers in Biostatistical Methods, April 18, 2013. Instructor: Thomas E. Love, Ph.D.

Structural Equation Models and Latent Variables, University of Missouri Biostatistics Group, March 15-16, 2013. Instructor: Kenneth A. Bollen, Ph.D.

Computing for Data Analysis, Johns Hopkins University, Coursera, January, 2013. Instructor: Roger D. Peng, Ph.D.

Group Sequential Analysis Using SAS® Software, American Statistical Association, Joint Statistical Meetings, August 1, 2012. Instructor: Yang Yuan, Ph.D.

Creating Statistical Graphics in SAS®, American Statistical Association, Joint Statistical Meetings, August 1, 2012. Instructor: Warren Kuhfeld, Ph.D.

Analysis of Overdispersed Data using SAS®, American Statistical Association, Joint Statistical Meetings, July 31, 2012. Instructors: Jorge Morel, Ph.D., Nagaraj Neerchal, Ph.D.

Targeted Learning: Causal Inference for Observational and Experimental Data, American Statistical Association, Joint Statistical Meetings, July 29, 2012. Instructors: Mark van der Laan, Ph.D., Maya Petersen, M.D., Ph.D., Sherri Rose, Ph.D.

Analysis of Complex Sample Survey Data, University of Missouri Biostatistics Group, March 1-2, 2012. Instructor: Steven Heeringa, Ph.D.

Bayesian Analysis in SAS, American Statistical Association, Conference on Statistical Practice, February 18, 2012. Instructor: Mike Patetta, M.S.

Regression Modeling with Many Correlated Predictors: High-dimensional Data Analysis in Practice, American Statistical Association, Conference on Statistical Practice, February 16, 2012. Instructors: Jay Magidson, Ph.D., Tony Babinec, Ph.D.

Applied Mixed Modeling for Longitudinal Data, University of Missouri Biostatistics Group, March 8-9, 2011. Instructor: Donald Hedeker, Ph.D.

Joint Modeling Approaches in Longitudinal Studies Using Random Effects, American Statistical Association, Joint Statistical Meetings, August 3, 2010. Instructors: Dimitris Rizopoulos, Ph.D., Geert Verbeke, Ph.D., Geert Molenberghs, Ph.D.

Analysis of Ordinal Categorical Data, American Statistical Association, Joint Statistical Meetings, August 1, 2010. Instructors: Alan Agresti, Ph.D., Bhramar Mukherjee, Ph.D.

State Space Time Series Analysis in Practice. American Statistical Association, Joint Statistical Meetings, August 4, 2009. Instructor: Siem Jan Koopman, Ph.D.

Group Sequential Analysis Using SAS® Software. American Statistical Association, Joint Statistical Meetings, August 5, 2009. Instructor: Yang Yuan, Ph.D.

Applied Survival Analysis. American Statistical Association (Kansas-Western Missouri Chapter), University of Kansas Medical Center, October 10, 2008. Instructor: Susanne May, Ph.D.

What's New in SAS® 9.2 for Mixed Models Analysis. SAS® Institute, August 22, 2008. Instructor: Jill Tao, Ph.D.

Genetic and Microarray Data Analysis. American Statistical Association, Joint Statistical Meetings, August 2, 2008. Instructors: Russell D. Wolfinger, Ph.D., Carl D. Langefeld, Ph.D.

Adaptive Analysis of Data: Tests of Significance and Confidence Intervals. American Statistical Association, Joint Statistical Meetings, August 4, 2008. Instructor: Tom O’Gorman, Ph.D.

Mixed Models for the Practicing Statistician. American Statistical Association, Joint Statistical Meetings, August 5, 2008. Instructors: Linda J. Young, Ph.D., Ramon C. Littell, Ph.D.

An Introduction to SAS® Stat Studio For SAS/STAT® Users. American Statistical Association, Joint Statistical Meetings, August 6, 2008. Instructor: Rick Wicklin, Ph.D.

Design and Analysis of Crossover Experiments. American Statistical Association, Joint Statistical Meetings, July 2007. Instructor: Dallas E. Johnson, Ph.D.

A Course in Multiple Comparisons and Multiple Tests. American Statistical Association, Joint Statistical Meetings, July 2007. Instructor: Peter H. Westfall, Ph.D.

Fundamentals of Building a Primary Care Practice-based Research Network. North American Primary Care Research Group, Annual Meeting, October 15, 2006. Instructors: Margaret Love, Ph.D., John Ryan, DrPH, Lyle Fagnan, MD, Chester Fox, MD, James Mold, MD, MPH, Kevin Peterson, MD, MPH, Jonathan Temte, MD, Ph.D.

Analysis of Clinical Trials: Theory and Applications. American Statistical Association, Joint Statistical Meetings, August 7, 2006. Instructors: Christy Chuang-Stein, Ph.D., Alex Dmitrienko, Ph.D., Geert Molenberghs, Ph.D.

Methods and Computational Tools for the Screening and Classification of Microarray Gene Expression Data. American Statistical Association, Joint Statistical Meetings, August 8, 2006. Instructors: Keith Baggerly, Ph.D., Kim-Anh Do, Ph.D., Geoff McLachland, Ph.D.

Introduction to Microarray Technology, Experimental Design, and Data Analysis. International Biometric Society Eastern North American Region, Spring Meeting, March 26, 2006. Instructor: Dan Nettleton, Ph.D.

Models for Repeated Discrete Data. American Statistical Association, Joint Statistical Meetings, August 7, 2005. Instructors: Geert Verbeke, Ph.D., Geert Molenberghs, Ph.D.

Statistical Methods for Evaluating Tests and Biomarkers in Medicine. American Statistical Association, Joint Statistical Meetings, August 8, 2005. Instructor: Margaret Pepe, Ph.D.

Statistical Analysis with the GLIMMIX Procedure. American Statistical Association, Joint Statistical Meetings, August 10, 2005. Instructor: Oliver Schabenberger, Ph.D.

Longitudinal and Incomplete Data Analysis. American Statistical Association, Joint Statistical Meetings, August 8, 2004. Instructors: Geert Verbeke, Ph.D., Geert Molenberghs, Ph.D.

Writing Effectively & Communicating with Non-Statisticians. American Statistical Association, Joint Statistical Meetings, August 9, 2004. Instructors: Tom Lang, M.A., Ralph O’Brien, Ph.D.

Power and Sample Size Analysis Using New SAS/STAT® Software. American Statistical Association, Joint Statistical Meetings, August 11, 2004. Instructor: John Castelleo, Ph.D.

Practical Approaches to Data Monitoring of Clinical Trials. International Biometric Society Eastern North American Region, Spring Meeting, March 28, 2004. Instructors: Susan S. Ellenberg, Ph.D., Thomas R. Fleming, Ph.D., David L. DeMets, Ph.D.

Mixed Models Analyses Using the SAS® System. SAS® Institute, November 12-14, 2003. Instructor: Jill Tao, Ph.D.

Power and Sample Size Analysis Using New SAS/STAT® Software. American Statistical Association, Joint Statistical Meetings, August 6, 2003. Instructor: John Castelloe, Ph.D.

Multiple Imputation for Missing Data with SAS® Software. American Statistical Association, Joint Statistical Meetings, August 6, 2003. Instructor: Yang C. Yuan, Ph.D.

Design and Analysis of Cross-Over Trials. American Statistical Association, Joint Statistical Meetings, August 2, 2003. Instructors: Byron Jones, Ph.D., Michael G. Kenward, Ph.D.

Longitudinal Data Analysis. American Statistical Association, Joint Statistical Meetings, August 13, 2002. Instructors: Geert Verbeke, Ph.D., Geert Molenberghs, Ph.D.

Analysis of Repeated Categorical Measurement Data. American Statistical Association, Joint Statistical Meetings, August 12, 2002. Instructor: Alan Agresti, Ph.D.

Statistical Methods for the Analysis of Ordered Categorical Data. American Statistical Association, Joint Statistical Meetings, August 12, 2002. Instructor: Charles S. Davis, Ph.D.

Tools for Scientific Investigation in Manual Medicine Research. Continuing Medical Education, 13th Triennial International Congress Integrative Manual Medicine, July 28-29, 2001

Design and Analysis of Clinical Trials. American Statistical Association, Joint Statistical Meetings, August 9, 1998. Instructors: Shein-chung Chow, Ph.D., Jen-pei Liu, Ph.D.

Mixed Models for the Practicing Statistician Using SAS. American Statistical Association, Joint Statistical Meetings, August 8, 1998. Instructors: Linda J. Young, Ph.D., George A. Milliken, Ph.D.

Designing and Implementing Economic Evaluations in Health Care. American Statistical Association, Joint Statistical Meetings, August 4, 1996. Instructor: Joseph Heyse, Ph.D.