

## Wayne Kelley Jr., MD

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### EDUCATION

**Medical University of South Carolina**, Charleston, South Carolina  
M.D., May 2005

**Honors:** *Junior AOA, President's Basic Science Award, Gross Anatomy Achievement Award, South Carolina Space Grant Consortium, AOA Hiram B. Curry Award, Class President 2001-2005*

**College of Charleston**, Charleston, South Carolina  
B.S. Biochemistry/ B.A. Chemistry, May 2000

**Honors:** *Cum Laude, Departmental Honors Chemistry & Biochemistry, Phi Kappa Phi*

**Trident Technical College**, North Charleston, South Carolina  
Associate in Science, May 1996

**Honors:** *Magna Cum Laude*

### HOSPITAL TRAINING

**Duke University Medical Center**  
Orthopaedic Surgery Residency Program  
Durham, North Carolina  
7/2005 – 7/2010

**OrthoCarolina**  
Spine Surgery Fellowship  
8/2010 – 7/2011

### PUBLICATIONS

**Kelley, Wayne, M.D.**, Goldner, Richard, M.D. The Effects of Upper Extremity Immobilization on Automobile Driving. *In Progress*

Donna R. Roberts, Raffaella Ricci, Frederick Funke, Patricia Ramsey, **Wayne Kelley**, et al. Lower limb immobilization is associated with increased corticospinal excitability. *Experimental Brain Research*. 2007; 181:213-220.

Heather McCann, M.D., **Wayne Kelley, BS.**, Richard Gross, M.D. Somatosensory Evoked Potential Monitoring in Surgery for Pediatric Spine Deformity. *MUSC Orthopaedic Journal*. Volume VII, June 2004: 11-13.

Roberts DR, **Kelley W**, Carroll SJ, Haines SJ, George MS. Reproducibility of functional MRI Activation in Clinical Practice. *Applied Radiology*. 2003; Suppl: 36-38.

Downs, Jennifer R., Pastine, Stefan J., Townsend, Jessica D., Greer, Heather A., **Kelley, Wayne Jr.**, et al. Preparation of substituted 1,2-Dihydro-3H-pyrazol-3-ones from Polyolithiated 2'-Phenylphenylacetohydrazides and Aromatic Esters. *Journal of Heterocyclic Chemistry*. 2001; 38(3):695-701.

Downs, Jennifer R., Pastine, Stefan J., Schady, Deborah A., Greer, Heather A., **Kelley, Wayne Jr.**, et al. Preparation of 1H-Pyrazole-5-carboxamides from dilithiated C( $\alpha$ ), N-phenylhydrazones and lithiated ethyl oxanilates or lithiated ethyl oxamate. *Journal of Heterocyclic Chemistry*. 2001;38(3):691-694.

Pastine, Stefan J., **Kelley, Wayne Jr.**, Bear, Jennifer J., Templeton, J. Nathan, III, Beam, Charles F. The preparation of 3-(2-phenylethenyl)-1H-pyrazoles from

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dilithiated (3E)-4-phenyl-3-buten-2-one hydrazones. *Synthetic Communications*. 2001;31(4):539-548.

Townsend, Jessica D., **Kelley, Wayne Jr.**, Rose, Kelly L., Schady, Deborah A., Downs, Jennifer R., Greer, Heather A., *et. al.* The preparation of 4,5-dihydro-5-phenyl-5-(2-phenylethenyl) isoxazoles, or 4,5-dihydro-5,5-di-(2-phenylethenyl) isoxazoles from dilithiated C( $\alpha$ ), O-oximes and select  $\alpha,\beta$ -unsaturated ketones. *Synthetic Communications*. 2000;30(12):2175-2189.

### PODIUM PRESENTATIONS

Heather McCann, M.D., **Wayne Kelley, BS.**, Richard Gross, M.D. Somatosensory Evoked Potential Monitoring in Surgery for Pediatric Spine Deformity. *72nd Annual Meeting of the AAOS in Washington, DC, February 24, 2005.*

Roberts DR, **Kelley W**, Carroll SJ, Horner MD, George MS. BOLD Functional MRI Activation Correlates with Cortical Excitability Measured by Transcranial Magnetic Stimulation. *Radiology Society of North America Annual Meeting*. Chicago, IL. 2003. Presented by Donna R. Roberts, M.D.

Beam, CF., Schady, DA., Rose, KL., **Kelley, W.**, Rakkhit, R, Hornsby, CD., Studer-Martinez, SL. Preparation of 4,5-dihydro-3-arylnaphth[1,2-c]isoxazoles from dilithiated 1-tetralone oxime and aromatic esters. *The South Carolina Academy of Science Annual Meeting*. Clinton, SC. 2000. Presented by Wayne Kelley.

### PROFESSIONAL MEMBERSHIPS

American Academy of Orthopaedic Surgeons Member  
North American Spine Society, Resident Member  
SOLAS Society of Lateral Access Surgery  
Georgia Orthopaedic Society

### RELATED WORK EXPERIENCE

July 2011-Present      **OrthoGeorgia**

May 2002-Jul 2002      **Research Assistant**, Summer Research Fellowship, *South Carolina Space Grant Consortium*. Medical University of South Carolina  
• *Transcranial Magnetic Stimulation combined with functional-MRI.*

Jan 1996-May 2001      **Radiology Technician**, *Doctor's Care Medical Affiliation*

### MILITARY EXPERIENCE

Sep 1990-Sep 1998      **United States Navy**. Hospital Corpsman Second Class

### EXTRACURRICULAR ACTIVITIES

Spending time with family  
Running  
Outdoors  
Intramural sports