

CURRICULUM VITAE

DOUGLAS S. WON, M.D.

The Minimally Invasive SPINE INSTITUTE

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America's Top Orthopedist/Spine Surgeons" in 2009 by Research Consumers' Council of America.

**CURRENT
POSITION**

Co-Director/Founder, The Minimally Invasive SPINE INSTITUTE
Clinical Asst Professor, UT Southwestern Medical School
Diplomate of the American Board of Orthopaedic Surgery
Fellow of the American Academy of Orthopaedic Surgeons
Distinguished Fellow of the American College of General Surgery
Board Member of the American Board of General Surgery

**SPINE SURGERY
FELLOWSHIPS**

SPINE SURGERY, *July 2003 – June 2004*
William Beaumont Hospital, Royal Oak, MI
Fellowship Director: Harry N. Herkowitz, MD

CERVICAL SPINE Surgery and MICROSCOPIC Surgery, *June – Aug 2004*
Washington University School of Medicine, St. Louis, MO
K. Dan Riew, MD

SPINAL DEFORMITY SURGERY, *June - Aug 2004*
Washington University School of Medicine, St. Louis, MO
Keith Bridwell, MD, Larry Lenke, MD

RESIDENCY

ORTHOPAEDIC SURGERY, *July 1999 – June 2003*
CHIEF RESIDENT, *July 2002 – June 2003*
Resident Education Committee Member, 1999-2003
Washington University SOM/Barnes-Jewish Hospital, St. Louis, MO
Residency Director: Lawrence G. Lenke, MD
Chairman of Orthopaedic Surgery: Richard H. Gelberman, MD
Orthopaedic In-Training Examination 2000: **93rd percentile**
Orthopaedic In-Training Examination 2001: **100th percentile**
Orthopaedic In-Training Examination 2002: **95th percentile**

INTERNSHIP

GENERAL SURGERY, *July 1998 – June 1999*
Washington University SOM/Barnes-Jewish Hospital, St. Louis, MO
General Surgery In-Training Examination 1999: **95th percentile**

EDUCATION

Northwestern University, Evanston, IL, 1994
Tau Beta Pi Engineering Honor Graduate
Harvard University, Cambridge, MA - 1992
The University of Texas Medical Branch, Galveston, TX , 1998

Doctor of Medicine: *Distinguished Honor Graduate,*
Alpha Omega Alpha Honor Graduate

**HOSPITAL
AFFILIATION:**

Baylor Medical Center at Irving
Baylor Medical Center at Plano
Baylor Medical Center at Grapevine
Irving Coppel Surgical Hospital
Methodist Hospital at Dallas
Pinecreek Medical Center
Forest Park Medical Center
Las Colinas Medical Center
Palladium Surgery Center Dallas
Texas Health Presbyterian Hospital Flower Mound
Global Rehab Hospital Dallas
Prestonwood Surgery Center

**PROFESSIONAL
MEMBERSHIP**

Society for Minimally Invasive Spine Surgery
North American Spine Society
American Academy of Orthopaedic Surgeons
Texas Medical Association
Texas Orthopaedic Association

**CERTIFICATION
AND TRAINING**

Advanced Cardiac Life Support – St. Louis, *June 1998*
Advanced Techniques in Cervical Spine – St. Louis, *August 2000*
AO/ASIF Spine Trauma Course – Chicago, *October 2000*
AO/ASIF Fracture Management Course – Toronto, *November 2000*
AO/ASIF Comprehensive Spine Course – Tucson, *June 2001*
Advanced Techniques in Cervical Spine – St. Louis, *July 2001*
Minimally Invasive Spine Techniques – St. Louis, *May 2002*
Cervical Spine Study Group Residents Course – San Antonio, *May 2002*
Advanced Techniques in Cervical Spine – St. Louis, *July 2002*
Advanced Techniques in Cervical Spine – St. Louis, *January 2003*
Advanced Tech. in Spinal Decompression and Fixation – St. Louis, *May 2003*
Spinal Techniques and Practical Cadaver Course – Stanford, *August 2003*
Cervical Spine Research Society Annual Meeting – Scottsdale, *December 2003*
Minimal Access Surgical Techniques – Memphis, *January 2004*
Physician/Hospital Compliance and Coding Course – Las Vegas, *March 2004*
Contemporary Management of Spinal Disorders – Palm Beach, *May 2004*
Minimal Access Surgical Techniques – Memphis, *June 2004*
Advanced Techniques in Cervical Spine – St. Louis, *July 2004*
Pediatric Spine Deformity Course – Little Rock, *September 2004*
North American Spine Society Annual Meeting – Chicago, *October 2004*
Chronic Pain Management Course – Boca Raton, *February, 2005*
Advanced Spine Trauma Symposium – Miami, *March, 2005*
Spine Deformity Symposium – Phoenix, *April, 2005*
AO Reconstructive Spine Seminar, Nottingham, England, *April, 2005*
Minimally Invasive Symposium, *May, 2006*
Endoscopic Laser Surgery Symposium, Tampa, *July, 2006*
Advanced Minimally Invasive Symposium, Baltimore, *August, 2007*

Advanced Spinal Deformity Tutorials, Dallas, *November, 2008*
 Endoscopic Spine Surgery Symposium, Phoenix, *November 2008*
 Endoscopic Laser Spine Surgery Tutorials, Baltimore, *November, 2008*
 Advanced Minimally Invasive Spine Surgery Tutorial, Miami, *Feb, 2009*
 Advanced Endoscopic Spine Surgery Tutorial, Chicago, *Oct 2009*
 Society for Minimally Invasive Spine Surgery Tutorial, Las Vegas *Oct 2009*
 North American Spine Society Annual Meeting, San Francisco, *Nov 2009*
 Society of Minimally Invasive Spine Surgery Spine Masters, Dubai, *May 2010*
 SOLAS Membership Committee, *November 2010*
 Joimax Advanced Endoscopic Fellowship, Germany/Netherlands, *Sept 2010*
 Society for Minimally Invasive Spine Surgery Annual Meeting, Miami, *Nov 2010*
 Joimax Advanced Endoscopic Fellowship, Germany/Netherlands, *Feb 2011*

HONORS & AWARDS

America's Top Orthopedist/Spine Surgeons" in 2009 by Research Consumers' Council of America.

Undergraduate Alpha Lambda Delta Honor Society – 1991
 Golden Key National Honor Society – 1993
 National Science Foundation Research Grant – 1993
 Tau Beta Pi Engineering Honor Society – 1993
 Dean's List – 1990 – 1994

Medical School Sigma Xi The Scientific Research Honor Society – 1995
 Eben J. Carey Memorial Award in Anatomy – 1995
 Alpha Omega Alpha Honor Medical Society – 1997
 Dean's List – 1994-1998
 Hildebrand Academic Scholarship – 1994-1998

SCIENTIFIC RECOGNITION

Finalist, 2001 Hibbs Clinical Science Research Award Scoliosis Research Society, 36th Annual Meeting, Cleveland, OH. *Correlation of Radiographic, Clinical and Patient Assessment of Shoulder Balance Following Fusion Versus Non-fusion of the Proximal Thoracic Curve in Adolescent Idiopathic Scoliosis. (Co-author)*

JOURNAL ARTICLE PUBLICATIONS

1. Luby-Phelps K, Hori M, Phelps JM, **Won D**. Ca²⁺ regulated Dynamic Compartmentalization of Calmodulin in Living Smooth Muscle Cells. *J Biol Chem*, 270: 21532-21538, 1995.
2. Kuklo TR, Lenke LG, **Won DS**, Sweet FA, Graham E, Blanke K, Bridwell KH. Spontaneous Proximal Thoracic Curve Correction Following Selective Fusion of the Main Thoracic Curve in Adolescent Idiopathic Scoliosis. *Spine* 2001, Sept 15;26(18): 1966-75.
3. Kuklo TR, Lenke LG, Graham EJ, **Won DS**, Sweet FA, Blanke KM, Bridwell KH. Correlation of Radiographic, Clinical and Patient Assessment of Shoulder Balance Following Fusion Versus Non-fusion of the Proximal Thoracic Curve in Adolescent Idiopathic Scoliosis. *Spine* 2002, Sept; 27(18):2013-20

4. Rhee JR, Bridwell KH, **Won DS**, Hanson D. Sagittal Plane Analysis of Adolescent Idiopathic Scoliosis: The Effects of Anterior vs. Posterior Instrumentation. *Spine* 2002, Nov 1; 27(21):2350-6
5. Kuklo TR, **Won DS**, Riew KD. The Treatment of Osteoarthritis of the Atlanto-Axial Joint and C1-C2 Arthrodesis with Transarticular Screws for Severe Osteoarthritis. *JBJS*. (Submitted)
6. **Won DS**, Truumees E, Herkowitz HN. Tuberculosis in Spine. North American Spine Society Case of the Month. In press.

BOOK CHAPTERS

1. **Won DS**, Herkowitz HN. Posterior Surgical Approach to Cervical Radiculopathy. *The Spine*. Rothman and Simeone. 5th ed. In Press.
2. **Won DS**, Knaub M, Herkowitz HN. Lumbar Stenosis and Surgical Treatment. *Instructional Course Lecture*. Vol. 54. In Press.
3. Knaub M, **Won DS**, Herkowitz HN. Surgical Indications and Techniques for Spinal Tumors: Anterior Approach. *The Lumbar Spine*, 3rd Ed.
4. Knaub M, **Won DS**, Herkowitz HN. Surgical Decompression for Foraminal Stenosis. *Interventional spine: an algorithmic approach*. In Press.

ABSTRACT PUBLICATIONS

- **Won DS**, Phillips WA, Buford WL. The Biomechanical Effects of the Patella Alta. *Orthop Trans*, 20(4):938, 1996.

PAPER PRESENTATIONS

1. **Won DS**, Phillips WA, Buford WL. *The Biomechanical Effects of the Patella Alta*. Mid-America Orthopaedic Association 14th Annual Meeting, San Antonio, TX, April 1996.
2. **Won DS**, Phillips WA, Buford WL. *The Effects of the Patella Alta on the Mechanical Advantage of the Knee*. 15th Annual Houston Conference on Biomedical Engineering Research, Houston, TX, Feb 1997.
3. Kuklo TR, Lenke LG, **Won DS**, Graham EJ, Sweet FA, Betz RR, Bridwell KH, Blanke K. *Spontaneous Proximal Thoracic Curve Correction Following Selective Fusion of the Main Thoracic Curve in Adolescent Idiopathic Scoliosis*. Scoliosis Research Society 35th Annual Meeting, Cairns, Australia, Oct 18, 2000.
4. Kuklo TR, Lenke LG, **Won DS**, Graham EJ, Sweet FA, Betz RR, Bridwell KH, Blanke K. *Spontaneous Proximal Thoracic Curve Correction Following Selective Fusion of the Main Thoracic Curve in Adolescent Idiopathic Scoliosis*. SMOS 42nd Annual Meeting, San Antonio, TX, Dec 14, 2000.

5. Kuklo TR, Riew KD, **Won DS**, Gilula LA. *The Treatment of Osteoarthritis of the Atlanto-Axial Joint*. SMOS 42nd Annual Meeting, San Antonio, TX, Dec 14, 2000.
6. **Won DS**, Lenke LG, Kuklo TR, Graham EJ, Sweet FA, Betz RR, Bridwell KH, Blanke K. *Spontaneous Proximal Thoracic Curve Correction Following Selective Fusion of the Main Thoracic Curve in Adolescent Idiopathic Scoliosis*. American Orthopaedic Association 34th Annual Resident's Research Conference, Hershey, PA, Mar 31, 2001
7. **Won DS**, Riew KD, Kuklo TR, Gilula LA. *The Treatment of Osteoarthritis of the Atlanto-Axial Joint and Arthrodesis with Transarticular Screws*. American Orthopaedic Association 34th Annual Resident's Research Conference, Hershey, PA, Mar 31, 2001.
8. Kuklo TR, Riew KD, **Won DS**, Gilula LA. *The Treatment of Osteoarthritis of the Atlanto-Axial Joint*. 56th Annual Meeting of the Canadian Orthopaedic Association, London, Ontario, June 3, 2001.
9. Rhee JR, Bridwell KH, **Won DS**, Hanson D. *Sagittal Plane Analysis of Adolescent Idiopathic Scoliosis: The Effects of Anterior vs. Posterior Instrumentation*. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, Sept 20, 2001.
10. Kuklo TR, Lenke LG, Graham EJ, **Won DS**, Sweet FA, Blanke KM, Bridwell KH. *Correlation of Radiographic, Clinical and Patient Assessment of Shoulder Balance Following Fusion Versus Non-fusion of the Proximal Thoracic Curve in Adolescent Idiopathic Scoliosis*. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, Sept 20, 2001.
11. Riew KD, **Won DS**, DellaRocca G. *One Stage Circumferential Cervical Surgery*. 16th Annual Meeting of the North American Spine Society, Seattle, WA, Nov 2001.
12. Riew KD, **Won DS**. *Parameters for Maintaining Intubation Postoperatively Following Anterior Cervical Procedures*. 16th Annual Meeting of the North American Spine Society, Seattle, WA, Nov 2001.
13. Riew KD, **Won DS**, Kuklo TR, Gilula LA. *The Treatment of Osteoarthritis of the Atlanto-Axial Joint*. 16th Annual Meeting of the North American Spine Society, Seattle, WA, Nov 2001.

SCIENTIFIC EXHIBITS/POSTERS

1. **Won D**, Luby-Phelps K. *Binding and Diffusion of Calmodulin in Smooth Muscle Cells*. Annual Biophysical Society Meeting, New Orleans, LA, Oct 1994.
2. **Won DS**, Phillips WA, Buford WL. *The Biomechanical Effects of the Patella Alta*. UTMB Medical Research Program, Galveston, TX, June 1996.
3. Kuklo TR, Lenke LG, Graham EJ, **Won DS**, Sweet FA, Blanke KM, Bridwell KH. *Correlation of Radiographic, Clinical and Patient Assessment of Shoulder Balance Following Fusion Versus Non-fusion of the Proximal Thoracic Curve in Adolescent Idiopathic Scoliosis*. 8th International Meeting on Advanced Spine Techniques (IMAST), Paradise Island, Bahamas, July 12, 2001.

4. Kuklo TR, Riew KD, **Won DS**, Gilula LA. *The Treatment of Osteoarthritis of the Atlanto-Axial Joint*. 8th International Meeting on Advanced Spine Techniques (IMAST), Paradise Island, Bahamas, July 12, 2001.

LECTURES

1. ***Cervical Spine Trauma***. William Beaumont Hospital, Department of Orthopaedic Surgery, Royal Oak, MI, Sept 22, 2003
2. ***Lumbar Spinal Stenosis and Lumbar Disc Herniation***. William Beaumont Hospital, Department of Orthopaedic Surgery, Royal Oak, MI, Nov 10, 2003
3. ***Adolescent Spondylolisthesis and Scoliosis***. William Beaumont Hospital, Department of Orthopaedic Surgery, Royal Oak, MI, Feb 9, 2003
4. ***Embryology & Congenital Abnormalities of Spine & Spinal Cord***. William Beaumont Hospital, Department of Orthopaedic Surgery, Royal Oak, MI, Mar 8, 2004
5. ***Anterior & Posterior Interbody Fusion: Indications, Techniques, & Complications***. William Beaumont Hospital, Department of Orthopaedic Surgery, Royal Oak, MI, Apr 12, 2004
6. ***Biology of Spinal Fusion & Bone Graft Alternatives***. William Beaumont Hospital, Department of Orthopaedic Surgery, Royal Oak, MI, May 10, 2004
7. ***Neck & Arm Pain / Osteoporosis & Spine***. Heritage Senior Center, Irving, TX , Sept. 16, 2004
8. ***Osteoporosis Treatment in Spine***, Heritage Senior Center, Irving, TX, Nov, 2004
9. ***Treatment of Spine Fracture in Multiple Myeloma***, DFW Multiple Myeloma Support Group Meeting, Dec. 2004
10. ***Updates on Neck & Back Care / Artificial Disc Replacement***, Medical & Surgical Clinic of Irving, Feb. 8, 2005
11. ***Treatment of Spine Fracture in Multiple Myeloma***, International Myeloma Foundation Annual Meeting, Dallas, Feb. 11, 2005
12. ***Update on Neck & Back Care / Artificial Disc Replacement Surgery***, Baylor Trophy Club Medical Center Physician Lecture Series, Feb. 26, 2005
13. ***Updates on Neck & Back Care***, Las Colinas Medical Center, CME Lecture Series, Aug 2008
14. ***Minimally Invasive Spine surgery***, Asan university hospital, Seoul, Korea, Jan 2011
15. ***MIS TLIF***, Catholic Medical Center, Seoul, Korea, Jan 2011
16. ***MIS TLIF***, St. peters Hospital, Seoul, Korea Jan 2011

OTHER RESEARCH EXPERIENCES

1. "The Knee Balance." Preceptor: Frank M. Ivey, M.D., William L. Buford, Jr., Ph.D. UTMB
Developed a model to study the effects of total knee arthroplasty upon muscle balance at the knee.
2. "Endoscopic decompression for intermetatarsal nerve entrapment study with cadaveric specimens."
Preceptor: Jason Calhoun, M.D., David Wyatt, M.D. UTMB
3. "Electrochemical response of self-passivating oxide films to tensile fracture of hip prosthetics."
Preceptor: Jeremy Gilbert, Ph.D. Northwestern University

COMMUNITY SERVICES

1. **Eagle-Condor Medical Expedition** – Medical mission trips to Peru
2. **St. Vincent's Free Clinic.** Student-run clinic which provides free medical care to the indigent population in Galveston, TX. Served as an assistant director and clinical instructor (1997-1998) and student/faculty recruiter (1995-1996)
3. **Asian-American Medical Association. Co-Founder.** Provided education and promoted Asian-American healthcare issues. Organized community vaccination project (1996) and community health fairs (1997).
4. **Child International Mentor Program. Founder.** Mentorship program for the adopted children from foreign countries to educate them and their American families about their heritage and ethnic background.
5. **Alpha Phi Omega Service Fraternity.** Remodeled inner city project housings and volunteered at The Center for Battered Women and Children.

PREVIOUS EMPLOYMENTS

Academic Tutoring (1992-98)

Massachusetts Citizens' Action for Environment Canvasser (1990)

Manager Dallas Bazaar Electronic Store (1989-94)

Shoe Shiner at Four Season Resort/Hotel - Las Colinas (1988-89)

Building Janitorial Service (1983-88)

Irving Healthcare System Hospital Transporter (1987)

EXTRACURRICULAR ACTIVITIES

Tae Kwon Do Instructor – Second degree Black Belt. Self-defense and Martial Arts classes.

UTMB Orthopaedic Relay Marathon Team. 1995-1997

Galveston Half-Marathon. 1995, 1996, 1997, 1998

Washington University Intramural Sports: Football, Softball, Soccer

PERSONAL INTERESTS

Martial arts, swing/salsa dancing, violin, tennis, hiking, running, skiing, indoor rock climbing, music, traveling, golfing.