

# Curriculum Vitae

## Robert Po-Chen Huang

### Office Address:

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### Education:

B.S., University of Rochester, Rochester, NY  
Major: Biochemistry; Minor: Chemistry  
September 1987 - May 1991  
M.D., SUNY Stony Brook School of Medicine, Stony Brook, NY  
September 1991 - May 1995

### Training:

Research Assistant, Department of Biochemistry, University of Rochester,  
Rochester, NY  
July 1989 – May, 1991  
Internship, Department of Surgery, University Medical Center,  
Stony Brook, NY  
July 1995 - June 1996  
Resident Research Scholar, Musculo-Skeletal Research Laboratory,  
Stony Brook, NY  
July, 1996 - June, 1997  
Residency, Department of Orthopaedics, University Medical Center,  
Stony Brook, NY  
July 1997 - June 2001  
Fellowship, Division of Pediatric Orthopaedics,  
Rainbow Babies and Children's Hospital,  
Cleveland, OH  
August, 2001- July, 2002

### Academic

#### Appointments:

Shriners Hospital for Children, Houston, TX  
Staff Orthopaedic Surgeon  
September, 2002 – April, 2007  
University of Texas Health Science Center - Houston  
Department of Orthopaedic Surgery  
Clinical Instructor  
March, 2003 – April, 2007  
Baylor College of Medicine, Houston, TX  
Department of Orthopaedic Surgery  
Clinical Assistant Professor  
July, 2003 – April, 2007  
Banner Children's Hospital, Mesa, AZ  
Center for Spinal Disorders and Pediatric Orthopaedics  
Director of Academics and Research  
May, 2007 – Present  
Midwestern University, Glendale, AZ  
Physician Assistant Program  
Adjunct Faculty  
June, 2007 – Present  
Arizona State University, Tempe, AZ  
Center for Adaptive Neural Systems

Adjunct Clinical Faculty  
January, 2008 – Present

- Memberships:** American Academy of Orthopaedic Surgeons  
2001 – Present  
Pediatric Orthopaedic Society of North America  
2003 – Present  
Scoliosis Research Society  
2003 – Present  
Orthopaedic Research Society  
2003 – Present  
International Chinese Hard Tissue Society  
2004 – Present  
Texas Medical Association  
2003 – 2007  
Harris County Medical Society  
2003 – 2007
- Committees:** Shriners Hospital for Children, Houston, Safety Committee, 2004-2007  
Shriners Hospital for Children, Houston, Radiation Safety Subcommittee, 2004-2007  
Shriners Hospital for Children, Houston, Medical Executive Committee, 2004-2007  
SRS, Prevalence and Natural History Committee, 2004-2009  
SRS, Patient Based Outcomes Committee, 2008-2011  
Banner Childrens Hospital, Performance Improvement Strategic Charter,  
2008-Present  
Banner Medical Group, Quality Advisory Committee, 2007-Present  
Banner Desert Medical Center, Graduate Medical Education Committee,  
2008-Present
- Licensure & Certification:** Licensed New York, Ohio, District of Columbia, Texas, and Arizona  
Board Eligible in Orthopaedic Surgery
- Honors & Awards:** NYS Regent's Scholarship Recipient, '87-'91  
Cum Laude Graduate, University of Rochester, '91  
Editor of the Medical Student Handbook '92 - '93  
Editor of Kronos '95, Stony Brook Medical School Yearbook  
M.D. with Distinction in Research. '91-'95
- Service:** Team Physician for Sachem Varsity & JV Football Games  
Volunteer Member NYC Marathon 2000 Medical Team  
Volunteer Orthopaedic Physician for Woodstock '99
- Traveling Fellowship:** Scoliosis Research Society  
Edgar Dawson Traveling Fellowship  
May 12-16, 2008  
Preceptor: Peter O. Newton, M.D.
- Grants:** *Development of diagnostic vibromyography for the early detection of osteoporosis.*  
Co-Investigator. New York State Center for Advanced Technology: Center for  
Biotechnology. \$108,400. July, 1997-June, 1999.
- Effect of Parathyroid Hormone on Spinal Fusion.* Principal Investigator. Palms  
Clinic and Hospital Corporation Foundation. \$19,990. January, 2008-December,  
2008.

- Patents:** Non-Invasive Method of Physiologic Vibration Quantification.  
Patent # 6,234,975, Issue Date: May 22, 2001.
- Chapters:** Huang RP, Thompson GH. Antibiotic Therapy in Spine Surgery. *In* DeWald R (ed): Spinal Deformities: the Comprehensive Text. New York: Thieme Medical Publisher, pp. 188-194, 2003.
- Huang RP, Thompson GH. 28262-Extensive Hindfoot Capsulotomy. *In* Drennan JC, Blasier RD (eds): Orthopaedic Pocket Procedures Series: Pediatrics. New York: McGraw-Hill, pp. 326-331, 2003.
- Huang RP, Thompson GH. 28285-Hammertoe Correction. *In* Drennan JC, Blasier RD (eds): Orthopaedic Pocket Procedures Series: Pediatrics. New York: McGraw-Hill, pp. 332-333, 2003.
- Huang RP, Thompson GH. Neuromuscular: Hamartomatous Disorders. *In* Cramer KE, Scherl S (eds): Essentials of Orthopaedic Surgery: Pediatric Orthopaedics. Philadelphia: Lippincott Williams & Wilkins, pp. 227-233, 2004.
- Publications:** Huang RP, McLeod KJ. Characterization of changes in muscle dynamics as a function of age. *Trans Phy Reg Bio Med* 14:15, 1994.
- Huang RP, Rubin CT, McLeod KJ. Alterations in muscle dynamics as a function of age: A possible etiology for senile osteopenia. *Trans Orthop Res Soc* 20(2): 459, 1995.
- Huang RP, Rubin CT, McLeod KJ. Prediction of osteoporosis: an etiologic basis for assessment of risk. *J Bone Min Res* 12: S496, 1997.
- Huang RP, Rubin CT, McLeod KJ. Changes in the dynamics of muscle contraction as a function of age. *J Gerontol A Biol Sci Med Sci* 54A(8), B352-357, 1999.
- Huang, RP, Bohlman HH, Thompson GH, Poe-Kochert C. Predictive value of pelvic incidence in progression of spondylolisthesis. *Spine* 28(20):2381-5, 2003.
- Florentino-Pineda I, Thompson GH, Poe-Kochert C, Huang, RP, Haber LL, Blakemore LC. The effect of amicar on perioperative blood loss in idiopathic scoliosis: the results of a prospective, randomized double-blind study. *Spine* 29(3):233-8, 2004.
- Huang RP, Ambrose CG, Sullivan E, Hayne RJ. Functional significance of bone density measurements in pediatric patients with osteogenesis imperfecta. *J Bone Joint Surg*, 88(A):1324-1330, 2006.
- Presentations:** SUNY School for Allied Health. Physician's Assistant Lectures. *Orthopaedic Basic Science*. September, 1997.
- Winthrop University Hospital. Continuing Medical Education Lecture Series. *Principles of the Ilizarov Method*. March, 1999.
- St. Charles Hospital. Hip and Knee Conference. *Vascular Issues in Total Knee Arthroplasty*. April, 1999.
- University Medical Center at Stony Brook. Department of Orthopaedics Grand Rounds. *High Tibial Osteotomy for Varus Gonarthrosis*. October, 1999.
- University Medical Center at Stony Brook. Department of Orthopaedics Grand

Rounds. *Review of Orthopaedic Oncology*. October, 2000.

Rainbow Babies' and Children's Hospital. Pediatrics Today: What's New in Sports Medicine. *The Two-Minute Sports Physical and Physical Examination of Common Sports Injuries*. August, 2001.

University of Florida. Department of Orthopaedics and Rehabilitation. Visiting Professor Lecture. *Leg Length Discrepancy*. January, 2002.

Shriners Hospital for Children Los Angeles. Indications Conference. *Spondylolysis and Spondylolisthesis*. February, 2002.

Cardinal Glennon Children's Hospital. Department of Pediatric Orthopaedics. Pediatric Conference. *Distraction Osteogenesis*. April, 2002.

Rainbow Babies' and Children's Hospital. Pediatric Orthopaedic Conference. *Scoliosis*. April, 2002.

Shriners Hospitals for Children Houston. Houston Pediatric Orthopaedic Conference. *Operative Management of Legg-Calve-Perthes*. January, 2003.

Shriners Hospitals for Children Houston. Houston Pediatric Orthopaedic Conference. *Physiologic Torsional & Angular Lower Extremity Processes*. July, 2003.

University of Texas. Department of Orthopaedics Grand Rounds. *Pediatric OITE Review*. October, 2003.

Shriners Hospital for Children Houston. Houston Pediatric Orthopaedic Conference. *Outcomes in Non-operative AIS Management*. December, 2003.

Huang RP, Ambrose CG, Sullivan E, Haynes RJ. *Functional Significance of DEXA Measurements in Patients with Osteogenesis Imperfecta*. Poster presented at: Annual Meeting of the Pediatric Orthopaedic Society of North America; April, 2004; St. Louis, MO.

Shriners Hospital for Children Houston. Houston Pediatric Orthopaedic Conference. *Pediatric Thoracolumbar Spine Injuries*. May, 2004.

Huang RP, Ambrose CG, Sullivan E, Haynes RJ. *Functional Significance of DEXA Measurements in Patients with Osteogenesis Imperfecta*. Paper presented at: Annual Meeting of the Western Orthopaedic Association; September, 2004; San Francisco, CA.

Huang RP, Haynes RJ, Casey BE, Sullivan E. *Congenital Scoliosis: Intraspinous Anomalies and Progression*. Poster presented at: Annual Meeting of the Western Orthopaedic Association, September, 2004; San Francisco, CA.

Shriners Hospital for Children Houston. Houston Pediatric Orthopaedic Conference. *Orthopaedic Management of Osteogenesis Imperfecta*. January, 2005.

Huang RP, Ambrose CG, Sullivan E, Haynes RJ. *Functional Significance of DEXA Measurements in Patients with Osteogenesis Imperfecta*. Poster presented at: Annual Meeting of the Orthopaedic Research Society; February, 2005; Washington, DC.

Huang RP, Ambrose CG, Sullivan E, Haynes RJ. *Functional Significance of DEXA Measurements in Patients with Osteogenesis Imperfecta*. Paper presented at: Annual Meeting of the American Academy of Orthopaedic Surgeons; February, 2005;

Washington, DC.

Huang RP, Ambrose CG, Sullivan E, Haynes RJ. *Frequency of Surgery and Fractures as a Function of BMD in Patients with OI*. Poster presented at: Annual Meeting of the Pediatric Orthopaedic Society of North America; May 2005; Ottawa, ON, Canada.

Shriners Hospitals for Children Houston. Houston Pediatric Orthopaedic Conference. *Orthopaedic Issues in Neurofibromatosis*. May, 2005.

Banner Children's Hospital. Pediatric Surgery for the General Pediatrician. *Limb Length Discrepancy and Distraction Osteogenesis*, June 22, 2007.

Banner Children's Hospital. Pediatric Surgery for the General Pediatrician. *Osteogenesis Imperfecta*, August 3, 2007.

Banner Children's Hospital. Pediatric Surgery for the General Pediatrician. *Introduction to Pediatric Orthopedics*. October 26, 2007.

Banner Children's Hospital. Pediatric Surgery for the General Pediatrician. *Scoliosis Primer*. February 15, 2008.

Arizona State University. Harrington Department of Bioengineering. BME 300 Bioengineering Product Design. *Pediatric Orthopaedics 101*. April 2, 2008.

Midwestern University. Physician Assistant Program. *Pediatric Orthopaedics*. April 11, 2008.