ZOUJUN DAI

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EDUCATION

University of Illinois at Chicago — Ph.D. 2012 Mechanical Engineering

Shanghai Jiao Tong University — B.S. 2006 Mechanical Engineering

RESEARCH AREA

Acoustics and vibration with biomedical applications, lung acoustics

RESEARCH EXPERIENCE

Jan 2013-present — Postdoctoral Research Associate, Acoustics & Vibration Lab, UIC

Aug 2007-Dec 2012 — Research Assistant, Acoustics & Vibration Lab, UIC

PUBLICATIONS

Archival Journal

(1) Peng Y, Dai Z, Mansy HA, Sandler RH, Royston TJ, Modeling percussive sound transmission through the torso and lungs, *Medical & Biological Engineering & Computing* – submitted 2013 (under review).

(2) Dai Z, Peng Y, Royston TJ, Mansy HA, Sandler RH, Poroviscoelastic models for sound and vibration in the lungs, accepted for publication in *ASME J. of Vibration and Acoustic* 2013.

(3) Royston TJ, Dai Z, Chaunsali R, Liu Y, Peng Y, Magin RL, Estimating material viscoelastic properties based on surface wave measurements: A comparison of techniques and modeling assumptions, *Journal of the Acoustical Society of America* **130** (6), 4126 – 4138 (2011).

Conference papers & presentations

(1) Peng Y, Dai Z, Royston TJ, Mansy HA, Sandler RH, Chest response to vibratory excitation: advances beyond percussion, *ASME IMECE* (Nov. 9 - 15, 2012, Houston, TX).

(2) Peng Y, Dai Z, Mansy HA, Royston TJ, Poroviscoelastic modeling of mechanical wave motion in the lungs, *ASME Summer Bioengineering Conference* (Jun. 20 – 23, 2012, Fajardo, Puerto Rico).

(3) Royston TJ, Dai Z, Peng Y, Mansy HA, Fractional poroviscoelastic modeling of sound and vibration in the lungs, *4th International Conference on Porous Media & Annual Meeting of the International Society for Porous Media* (May 14 – 16, 2012, West Lafayette, IN).

(4) Dai Z, Peng Y, Mansy HA, Royston TJ, Sandler RH, Estimation of local viscoelasticity of lungs based on surface waves, *ASME IMECE* (Nov. 11 - 17, 2011, Denver, CO).

(5) Dai Z, Peng Y, Royston TJ, Array measurement and imaging of sound transmission through the

lungs, *159th Meeting of the Acoustical Society of America* (Apr. 19 – 23, 2010, Baltimore, MD)

(6) Royston TJ, Dai Z, Mazzucco M, The Audible Human Project: Modeling Subject-Specific Sound Transmission in the Lungs and Torso, *ASME IMECE* (Oct. 31 – Nov. 6, 2008, Boston, MA)

(7) Dai Z, Royston TJ, Development and evaluation of computational and mechanical phantom models of lung and chest acoustics, *First International Symposium on Audible Acoustics in Medicine and Physiology* (Sept. 8 – 9, 2008, West Lafayette, IN)

Honors and Awards

The Provost's Award for Graduate Research	Fall 2008 UIC Graduate College
Excellent Academic Scholarship (first-class)	SJTU 2003-2004 academic year
Excellent Academic Scholarship (second-class)	SJTU 2004-2005 academic year

Professional Affiliations

Student Member - Acoustical Society of America

Student Member - American Society of Mechanical Engineers