CHEN CUI

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EDUCATION

College of Engineering, University of Iowa, Iowa City, IA   2010-Present
PhD Candidate in Computer Engineering | GPA: 3.85/4.0
Technological Entrepreneurship Certificate | Computer Skills: C++, Python, Matlab, Linux

Xidian University, Xi'an, China   2006-2010
BS in Engineering, "Honors Program" (top 3% of 5000 students admitted); GPA:3.8/4.0 (top 1%).

ENGINEERING EXPERIENCE

Computational Biomedical Imaging Group (CBIG), Iowa, Iowa City, IA   2012-Present
Graduate Research Assistant
• Developed graph search algorithms to separate water and fat signals in magnetic resonance imaging (MRI)
• Improved the accuracy of fat tissue identification to 99.23% and reduced computational time by 80%

Publications:
• Chen C, Xiaodong W, Milan S, Mathews J. "Water/fat decomposition using globally optimal non-iterative graph surface estimation", *In Proceedings of ISMRM*, Salt Lake City, USA, 2013.
• Chen C, Xiaodong W, John N, Mathews J. "3D GlObally Optimal Surface Estimation algorithm for fat and water separation", *In Proceedings of ISMRM*, Milan, Italy, 2014.
• Chen C, Xiaodong W, John N, Mathews J. "Fat water decomposition using GlObally Optimal Surface Estimation algorithm (GOOSE)", *Magnetic Resonance in Medicine*, 2015; 73:1289-1299.
• Chen C, Abhay S, Xiaodong W, Mathews J. "A fast fat-water decomposition method using 3D non-Euclidean graph search with global optimality", *In Proceedings of ISMRM*, Singapore, 2016.
• Chen C, Abhay S, Xiaodong W, Mathews J. "A Rapid 3D fat water decomposition method using GlObally Optimal Surface Estimation algorithm (R-GOOSE)", Magnetic *Resonance in Medicine*, submitted.

ENTREPRENEURIAL EXPERIENCE

WesternWise Inc. (WWI), Beijing, China & Iowa City, IA   2014-2016
WWI improves Chinese children's English communication skills through one-to-one video conferencing lessons with native speakers.
Cofounder
• Led WWI's major operations including hiring, service development and client relationship management

Stanford University & National Science Foundation, Iowa City, Iowa & Palo Alto, California   2013-2014
University Innovation Fellow
• Selected as the first Iowa student to join the student entrepreneurship program at Stanford and Google, Inc.
• Organized the first 3-Day-Startup event at UI resulting in the founding of 7 new ventures founded
• Conducted a landscape analysis for innovation resources in University of Iowa (UI)

LEADERSHIP EXPERIENCE & COMMUNITY SERVICE

Iowa United Nations Association, Iowa City, IA   2012-2013
State Coordinator for UNICEF Projects
• Led 6 volunteers and 500 elementary students to raise $5,113 for underprivileged children through "Trick-Or-Treat" Project
• Raised $2,000 through "Tap the Beat" benefit concert to promote access to clean water for children in developing countries

The Crisis Center of Johnson County, Iowa City, IA   2013-2015
Suicide Intervention Specialist
• Served as a chat specialist for 100 clients (150+ hours) with mental conditions and successfully prevented 13 suicidal attempts

HONORS AND AWARDS

• Championship: Business Model Competition (1/42), Iowa City, IA   Mar 2015
• International Society for Magnetic Resonance in Medicine (ISMRM) Educational Stipend Award, Milan, Italy   May 2014
• 2nd Place: 2012 ISMRM, Salt Lake City, USA   April 2013
The *Challenge* is a competition to develop the most robust water-fat reconstruction algorithm for MRI with the highest clinical impact.
• 3rd Place: the National English Debate Competition, Beijing, China   May 2010
• National Scholarship (top 1% of 5000+ students), Xi'an, China   May 2007
• 1st level University Academic Scholarship (Top 1% of 350 students), Xi'an, China   2007-2010

ADDITIONAL INFORMATION

• Interests: Saxophone, Soccer, Japanese and Italian