

Baozhong Tian, Ph. D.

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EDUCATION

- Ph. D., Computer Science, The University of Western Ontario (2007).
- Master of Science, Computer Science, Lakehead University (2000).
- Master of Science, Acoustics Science, Peking University (1996).
- Bachelor of Science in Engineering, Electronics & Information Engineering, Huazhong University of Science & Technology (1993).

COURSES TAUGHT

University of Wisconsin – Platteville (2014 – present):

CS2340 – Programming in VB.NET
CS3520/5520 – Programming Language Structures
CS3840 – Introduction to Computer Security
EE2210Lab – Circuit II

West Virginia University Institute of Technology (2011 – 2014):

CS121 – Computer Science I (Java)
CS122 – Computer Science II (Data Structures & Algorithms)
CS201 – Data Structures
CS310 – Principles of Programming Languages
CS322 – System Analysis and Design Methodologies
CS365 – Computer Languages: ACM Programming Contest Practicum
CS365 – Computer Languages: C
CS465 – Introduction to Computer Security
CS470 – Introduction to Computer Graphics
CS472 – Artificial Intelligence
CS456 – Digital Image Processing

Azusa Pacific University (2007 – 2011):

CS205 – Microcomputer Software Tools
CS220 – Introduction to Computer Science
CS225 – Fundamentals of Computer Science
CS250 – Operating Systems
CS320 – Data Structures
CS325 – Database Systems
CS330 – System Programming I, Unix System and C
CS340 – System Programming II, Assembly Language
CS400 – Compiler Construction
CS420 – Telecommunications/Interfacing
CS430 – Artificial Intelligence
CS435 – Advanced Database Application Programming
CS470 – Software Engineering I
CS480 – Software Engineering II
CS495 – ACM Programming Contest Practicum
CS496 – Senior Seminar, Ethics in Computer Science
MCIS250 – Operating Systems
MCIS315 – Computer Programming with MS Visual Basic .NET
MCIS348 – Database Program Development
MCIS400 – Client Server Technologies

The University of Western Ontario

PUBLICATIONS

- B. Resheske, B. Tian, Real-Time Eye Detection and Tracking, accepted at 2015 SSR International Conference on Social Sciences and Information, November 29-30, 2015, Tokyo, Japan
- B. Tian, S. Sambasivam and J. L. Barron, Practical Digital Playback of Gramophone Records using Flat-Bed Scanner Images, Audio Engineering Society 131st Convention, October 20-23, 2011, New York, New York.
- B. Tian and J. L. Barron, Using computer vision technology to play gramophone records, Journal of Audio Engineering Society, Volume 59 Issue 7/8 pp. 514-538, July 2011.
- C. Bradney, B. Tian, The Integration of Computers and Culture, Christians on Diversity in the Academy (CDA) Conference 2010, Monrovia, California, USA, March 24-26, 2010.
- B. Tian, J. L. Barron, Sound From Gramophone Record Groove Surface Orientation, International Conference on Image Processing, San Antonio, Texas, USA, September 16-19, 2007.
- B. Tian, J. L. Barron, Reproduction of Sound Signal from Gramophone Records using 3D Scene Reconstruction, Irish Machine Vision and Image Processing Conference, Dublin City University, Ireland, August 30 - September 1, 2006. pp. 84-91.
- B. Tian, J. L. Barron, A Quantitative Comparison of 4 Algorithms for Recovering Dense Accurate Depth, 2nd Canadian Conference on Computer and Robot Vision, Victoria, BC, Canada, May 9-11, 2005. pp. 498-505.
- B. Tian, J. L. Barron, W.K.J. Ngai and H. Spies. A comparison of 2 methods for recovering dense accurate depth using known 3D camera motion. In Vision Interface, Halifax, Canada, June 11-13, 2003. pp. 229-236.

EDITORIAL SERVICES

- Member of the editorial board of the Journal of Cyber-Physical Systems.

GRANTS

- 2013 – 2014: West Virginia 2013 Research Trust Fund Grant, West Virginia Center of Excellence for Cyber-Physical Systems, \$100,000, Co-PI.
- 2007 – 2008: Azusa Pacific University Faculty Research Grant, \$3,000, PI.

EXPERIENCE

- August 2014 – present: Assistant Professor
Department of Computer Science and Software Engineering,
University of Wisconsin – Platteville, Platteville, Wisconsin, USA
- August 2011 – July 2014: Assistant Professor
Department of Computer Science and Information Systems, West Virginia University Institute of
Technology, Montgomery, West Virginia, USA
- August 2007 – July 2011: Assistant Professor
Department of Computer Science, Azusa Pacific University, Azusa, California, USA
- May 2007 – June 2007: Senior Software Engineer
I3DVR International Ltd, Scarborough, Ontario, Canada
 - Developed human/object tracking algorithms in video surveillance system, C++.
- January 2007 – April 2007: Postdoctoral Fellowship
Department of Computer Science, University of Western Ontario, London, Ontario, Canada
 - Programmed 3D scanning system for plant growth measurement, C++.
 - Designed the interface used in stepping motor controls in Windows platform.
- 2002 – 2004: Lecturer
Department of Computer Science, University of Western Ontario, London, Ontario, Canada

- September 2000 – April 2004: Teaching Assistant
Department of Computer Science, University of Western Ontario, London, Ontario, Canada
- April 1999 - March 2000: Software Developer & Analyst
Computer Mind Ltd, Thunder Bay, Ontario, Canada
 - Programmed various web applications using Cold Fusion, ASP, SQL, JAVA, PERL and JavaScript.
 - Implemented a real-time panel designed for displaying real-time stock market indexes, using JAVA.
 - Programmed and maintained several commercial web sites (Miracle Ear, Mortgage Trade, etc.) using Cold Fusion, ASP, SQL, etc.
 - Resolved the Y2K issue in Motorola's internal customer survey database and maintained the survey site in smooth running condition.
- September 1998 - December 1998: Associate Development Analyst
IBM Footprint Development Lab, IBM Canada, Toronto, Ontario, Canada
 - Programmed the IBM "Visual Banker" demo using HTML, DHTML and Java Script.
 - Developed key techniques for the implementation of "Visual Banker" demonstration, resulted in the success of the demo in Las Vegas.
 - Designed the home pages of the demo, which are a set of advanced web pages contain audio, video and a lots of dynamic effects.
 - Worked with the quality assurance (QA) group to improve the product's quality.
- September 1997 - August 2000: Teaching Assistant
Department of Computer Science, Lakehead University, Thunder Bay, Ontario, Canada
 - Marked the student assignments.
 - Guided the students in different labs regarding the students' assignments.
 - Tutored in the computer lab: FORTRAN and MS Excel.
- July 1996 - August 1997: Assistant Professor
Department of Electronics, Peking University, Beijing, P. R. China
 - Taught Digital Signal Processing (DSP), both theory and experiments.
 - Edited DSP experiment textbooks.
 - Taught DSP labs using various hardware/software including Motorola and TI DSP chips.

SUMMARY OF SKILLS

- C/C++, C#, VB.NET, OpenCV, MATLAB, Assembly Language, JAVA, etc.
- Web Application Developments, ASP, Python, ORACLE, MYSQL, PHP, AJAX, etc.
- Video/image Analysis Algorithms.
- Digital Signal Processing Algorithms.
- Electronics circuits design and trouble shooting.
- Acoustics design and applications.

LANGUAGE SKILLS

- English
- Chinese (Mandarin)