

## Education

- Ph. D. student**, Biomedical Engineering, Georgia Institute of Technology 2005 - present  
Research Interests: Image segmentation and analysis, Computer vision.
- M.S., Mathematics**, Georgia Institute of Technology, Atlanta, USA 2008
- M.S., Biomedical Engineering**, (summa cum laude) Tsinghua University, Beijing, China 2005
- B.E., Biomedical Engineering**, Tsinghua University, Beijing, China 2003

## Work Experience

- Georgia Institute of Technology** 2005.8-present  
Atlanta, GA  
Graduate Research Assistant for Professor Don Giddens and Professor Allen Tannenbaum
- MRI/Phase Contrast-MRI hepatic image analysis and portal vein extraction
  - Conformal flattening
  - Spherical wavelets for shape analysis
- Siemens Corporate Research** 2007.5-2007.8  
Princeton, NJ  
Medical Image Processing Internship
- Tsinghua University** 2003.11-2005.7  
Beijing  
Graduate Research Assistant for Professor Shangkai Gao
- Dynamic 3D Intracardiac Echocardiographic Image Analysis
- General Electric** 2005.2 - 2005.7  
Beijing  
Medical Image Processing Internship
- Tsinghua University** 2003.1 - 2003.7  
Beijing  
Undergraduate Research Assistant for Professor Shangkai Gao
- 3D ultrasound image processing
- United Nations International Children's Emergency Fund** 2003.1 - 2003.7  
Beijing  
Volunteer Chinese-English Translator
- Translation of the report on Meigong River Program(AIDS prevention & healthcare)

## Publication

1. Y. Gao, J. Melonakos, A. Tannenbaum, *Conformal Flattening ITK Filter*, MICCAI 2006 Open Source Workshop / Insight Journal, Copenhagen, Denmark.
2. Y. Gao, D. Nain, X. LeFaucheur, A. Tannenbaum, *Spherical Wavelet ITK Filter*, MICCAI 2007 Open Source Workshop / Insight Journal, Brisbane, Australia.
3. J. Melonakos, Y. Gao, A. Tannenbaum, *Deriving Bayesian Priors from Expectation-Maximization Weights and Neighboring Posteriors: Applications for Brain MRI Segmentation*, SPIE 2007, accepted

4. J. Melonakos, Y. Gao, A. Tannenbaum, *Conformal Flattening of Brain Ventricles*, MemBIS 2006, Memphis, U.S.
5. Y. Gao, S. Gao, C. Ding, L. Rao, D. S. Khoury, *Semi-automatic Segmentation of the Endocardial Boundary in Intracardiac Echocardiographic Images*, Proceedings of 26th International Conference of the IEEE EMBS 2004, p1911-1913
6. Zm. Gao, Y. Gao, Yoshikazu Yasui, *On Algebraic Construction of Family of Rough Sets*, Scientiae Mathematicae Japonicae, Vol. 59, No.3, 2004, p473-478
7. Stephanie George, Puneet Sharma, Yan Yang, Yi Gao, Diego Martin, Don P Giddens, *Investigation of Geometry and Flow in the Portal Vein using Magnetic Resonance Imaging*, BMES 2007 accepted.

## Honors and Awards

Graduate summa cum laude from Tsinghua University	2005
Tsinghua University Master's Degree Thesis Award	2004
Tsinghua University Chorus Conductor Award	2004
Tsinghua University Graduate Student Scholarship	2004
Mitsui scholarship of Tsinghua University	2002