### Jing Wang, Ph.D.

Division of Medical Physics and Engineering Department of Radiation Oncology The University Texas Southwestern Medical Center 5641 Southwestern Medical Avenue Dallas, TX 75235-8808 *Phone*: 214-633-1741 (office) *Email*: jing.wang@utsouthwestern.edu

## Education

State University of New York at Stony Brook, Stony Brook, NY, USA Ph. D. in Physics	December 2006
State University of New York at Stony Brook, Stony Brook, NY, USA M. A. in Physics	May 2003
University of Science and Technology of China, Hefei, Anhui, China B.S. in Materials Physics	July 2001

## **Professional Experience**

2002-2006 Research Assistant, Department of Radiology, State University of New York at Sony Brook, Stony Brook, NY
2007 Research Associate, Department of Radiology, State University of New York at Sony Brook, Stony Brook, NY
2007-2009 Postdoctoral Fellow, Department of Radiation Oncology, Stanford University, Stanford, CA
2010-present Assistant Professor, Department of Radiation Oncology, University of Texas Southwestern Medical Center, Dallas, TX

# Certification

The American Boar of Radiology, Certified in Therapeutic Medical Physics, 2011

## Honors

CPRIT Individual Investigator Research Award, 2012 AAPM Annual Meeting Travel Grant, ASTRO, 2008 Prostate Cancer Training Award, Department of Defense 2008-2010 ASTRO Annual Meeting Travel Grant, ASTRO, 2007 Research Access Program Travel Grant, SUNY at Stony Brook 2006 Peter B. Kahn Fellowships, SUNY at Stony Brook 2005 Outstanding Student Scholarship, USTC 1999 Zhen Xiong Industry Scholarship, USTC 1998

## **Research Grant**

Cancer Prevention and Research Institute of Texas (RP130109) Individual Investigator Research Award Title: "Quantitative Cone-beam CT for Adaptive Radiation Therapy" Period: 3/01/2013-2/28/2016 Role: Principal Investigator Direct Cost: \$642,329 Effort: 30% Cancer Prevention and Research Institute of Texas, RP110562, (PI: Choy Hak) Multi-Investigator Research Award Title: "Technology-Directed Advances in Radiation Therapy of Lung Cancer" Period: 5/01/2011-4/30/2016 Role: Co-investigator Effort: 20%

American Cancer Society, Institutional Research Grant (ACS-IRG-02-196) Title:" Enhancement of four-dimension cone-beam computed tomography for radiation therapy of lung cancer" Period: 1/1/2011-12/31/2011 Role: Principal Investigator Direct cost: \$30,000

Elekta Ltd, 900555 (PI: Timothy Solberg) Title: "Applications of Image Guided Therapy" Period: 1/1/2010 – 3/31/13 Role: Co-investigator Effort: 10%

Department of Defense, Prostate Cancer Research Program (W81XWH-08-1-0127) Title: "Accurate and Fast Localization of Prostate for External Beam Radiation Therapy" Period: 2/15/2008 – 2/14/2010 Role: Principal Investigator Direct cost: \$115,000

### Activities

**Guest Associate Editor** for Medical Physics **Reviewer:** 

Medical Physics Physics in Medicine and Biology Physica Medica: European Journal of Medical Physics Journal of Applied Clinical Medical Physics Medical and Biological Engineering and Computing IEEE Transactions on Medical Imaging IEEE Transactions on Imaging Processing IEEE Transactions on Nuclear Science IEEE Medical Imaging Conference Malaysian Journal of Medical Sciences Journal of X-ray Science and Technology Imaging in Medicine Medical Dosimetry E-Journal of Advanced Maintenance (EJAM)

#### Membership:

American Association of Physicists in Medicine (AAPM) since 2008 American Society for Radiation Oncology (ASTRO) since 2012

### **Patents**

1. **J. Wang** and L. Xing, "Accurate determination of the shape and localization of metallic object(s) in X-ray CT imaging", pending, (Stanford Office of Technology Licensing, Disclosure# S09-061) 2009

- 2. W. Liu, R. Wiersma, J. Wang and L. Xing, "Arc based 3D Geometric tracking of human anatomy as a function of time by the use a single MV imager", pending, (Stanford Office of Technology Licensing, Disclosure# S08-257) 2008
- 3. L. Zhu, **J. Wang**, and L. Xing, "A novel scheme of cone-beam CT imaging in radiation therapy", pending, (Stanford Office of Technology Licensing, Disclosure# S07-382) 2007

### **Publications**

#### Journal Paper

- 1. X. Gu, B. Dong, J. Wang, J. Yordy, L. Mell, X. Jia, and S. Jiang, "A Contour-Guided Deformable Image Registration Algorithm for Adaptive Radiotherapy", *Physics in Medicine and Biology*, to appear, 2013
- 2. J. Wang and X. Gu, "High quality four dimensional cone-beam CT by deforming prior images", *Physics in Medicine and Biology*, vol. 58, pp. 231-246, 2013
- 3. J. Wang, J. Robar, and H. Guan, "Noise Suppression in Reconstruction Low-Z Target MV CBCT Images", *Medical Physics*, vol. 39, pp 5111-5117, 2012
- 4. L. Ouyang, T. Solberg, and **J. Wang**, "Noise Reduction in Low-Dose Cone Beam CT by Incorporating Prior Volumetric Image Information", *Medical Physics*, vol. 39, pp. 2569-2577, 2012
- 5. Y. Yang, Z. Zhong, G. Rong, X. Guo, **J. Wang**, T. Solberg, and W. Mao, "A Novel Markerless Technique to Evaluate Daily Lung Tumor Motion Based on Conventional Conbeam CT Projection Data", *Int J Radiat Oncol Biol Phys*, vol.75, pp 749-756, 2012
- L. Ouyang, T. Solberg, and J. Wang, "Effects of the penalty to penalized weighted leastsquares image reconstruction for low-dose CBCT", *Physics in Medicine and Biology*, vol. 56, pp. 5535-5552, 2011
- 7. J. Wang, H. Guan and T. Solberg, "Inverse determination of the penalty parameter in penalized weighted least-squares algorithm for noise reduction of low-dose CBCT", *Medical Physics*, vol. 38, pp. 4066-4072, 2011
- 8. X. Zhang, **J. Wang**, and L. Xing, "Metal Artifact Reduction in X-ray Computed Tomography (CT) by Constrained Optimization", *Medical Physics*, vol. 38, pp. 701-711, 2011
- 9. J. Wang, W. Mao, and T. Solberg, "Scatter correction for cone-beam computed tomography using one-dimensional moving blocker strips: a preliminary study", *Medical Physics*, vol. 37, pp. 5792-5800, 2010
- J. Wang, and L. Xing, "Accurate determination of the shape and location of metal objects in x-ray computed tomography", *Journal of X-ray Science and Technology*, vol. 18, pp 403-414, 2010
- B. Meng, J. Wang, and L. Xing, "Sinogram Pre-processing and Binary Reconstruction for Determination of the Shape and Location of Metal Objects in Computed Tomography (CT)", *Medical Physics*, vol. 37, pp. 5867-5875, 2010
- K. Choi , J. Wang , L. Zhu , T. Suh , S. Boyd, L. Xing, "Compressed Sensing with a First-Order Method for Cone-Beam CT Dose Reduction", *Medical Physics*, vol. 37, pp. 5113-5125, 2010.
- L. Zhu, J. Wang, Y. Q. Xie, J. Starman, R. Fahrig and L. Xing, "A Patient Set-up Protocol Based on Partially Blocked Cone-beam CT," *Technology in Cancer Research & Treatment* vol. 9, pp. 191-198, 2010.
- 14. J. Wang, L. Zhu, and L. Xing, "Noise reduction in low-dose X-ray fluoroscopy for Image Guided Radiation Therapy (IGRT)", *Int J Radiat Oncol Biol Phys*, vol.72, pp.637-643, 2009
- 15. L. Zhu, Y. Xie, J. Wang, and L. Xing "Scatter correction for cone-Beam CT in radiation therapy", *Medical Physics*, vol. 36, pp. 2258-2268, 2009
- 16. J. Wang, T. Li, and L. Xing, "Iterative image reconstruction for CBCT using edgepreserving prior", *Medical Physics*, vol. 36, pp. 252-260, 2009
- 17. L. Zhu, **J. Wang**, and L. Xing, "Noise suppression in scatter correction for Cone-Beam CT", *Medical Physics*, vol. 36, pp. 741-752, 2009

- J. Wang, T. Li, Z. Liang and L. Xing, "Dose reduction for kilovoltage cone-beam computed tomography in radiation therapy", *Physics in Medicine and Biology*, vol. 53, pp. 2897-2909, 2008
- 19. E. Schreibmann, B. Thorndyke, T. Li, J. Wang and L. Xing, "Four-Dimensional Image Registration for IGRT," *Int J Radiat Oncol Biol Phys*, vol.71, pp. 578-586, 2008
- 20. J. Wang, H. Lu, D. Eremina, G. Zhang, S. Wang, J. Chen, J. Manzione, and Z. Liang, "An experimental study on the noise properties of X-ray CT sinogram data in the Radon space", *Physics in Medicine and Biology*, vol. 53, pp. 3327-3341, 2008
- 21. J. Wang, S. Wang, L. Li, H. Lu, and Z. Liang, "Virtual colonoscopy screening with ultra low-dose CT: a simulation study", *IEEE Transactions on Nuclear Science*, vol. 55, pp. 2566-2575, 2008
- 22. J. Wang, H. Lu, J. Wen and Z. Liang, "Wavelet-based penalized weighted least-squares sinogram restoration for low-dose X-ray computed tomography", *IEEE Trans. on Biomedical Engineering*, vol. 55, pp. 1022-1031, 2008
- 23. J. You, J. Wang, Z. Liang, "Consistency condition and ML-EM Checkerboard artifacts", *IEEE Trans. Nucl. Science*, vol. 54, pp. 1696-1702, 2007
- 24. J. Wang, T. Li, H. Lu, and Z. Liang, "Penalized weighted least-squares approach to sinogram noise reduction and image reconstruction for low-dose X-ray computed tomography", *IEEE Trans. on Medical Imaging*, vol. 25, pp. 1272-1283, 2006
- 25. J. Wang, T. Li, H. Lu, and Z. Liang, "Noise reduction for low-dose single-slice helical CT sinograms", *IEEE Trans. Nucl. Science*, vol. 53, pp. 1230-1237, 2006
- 26. J. Wang, H. Lu, T. Li, and Z. Liang, "An alternative solution to the non-uniform noise propagation problem in fan-beam FBP image reconstruction", *Medical Physics*, vol. 32, pp. 3389-3394, 2005
- 27. T. Li, Xiang Li, J. Wang, J. Wen, H. Lu, J. Hsieh, and Z. Liang, "Nonlinear sinogram smoothing for low-dose X-ray CT", *IEEE Trans. Nucl. Science*, vol. 51 pp. 2505-2513, 2004

#### Invited Review

1. J. Wang, H. Lu, Z. Liang and L. Xing, "Recent development of low-dose cone-beam computed tomography", *Current Medical Imaging Reviews*, vol. 6 pp 72-81, 2010

*Conference Proceeding* (\* denotes oral presentation)

- 1. \*L. Ouyang, K. Song, T. Solberg, and J. Wang, "A moving blocker system for cone-beam computed tomography scatter correction", *SPIE Medical Imaging*, 2013
- 2. H. Zhang, Y. Liu, J. Ma, H. Han, J. Wang, and Z. Liang, "A comparison study of penalized reweighted least-squares approach to sinogram noise reduction and image reconstruction for low-dose cone-beam CT", *SPIE Medical Imaging*, 2013
- H. Zhang, J. Wen, D. Shi, R. Yang, J. Wang, and Z. Liang, "Noise reduction for cone-beam SPECT by penalized reweighted least-squares projection restoration", *SPIE Medical Imaging*, 2013
- Y. Liu, J. Ma, H. Zhang, J. Wang, and Z. Liang, "A Comparison Study of Low-Dose CT Image Reconstruction Strategies by Adapted Weighted Total Variation Regularization", *Conf.* of IEEE NSS and MIC, 2012
- H. Zhang, Y. Liu, H. Han1, Y. Fan, J. Wang, and Z. Liang, "A Comparison Study on KL Domain Penalized Weighted Least-Squares Approach for Low-Dose Cone-Beam CT Imaging", *Conf. of IEEE NSS and MIC*, 2012
- 6. Y. Liu, J. Ma, H. Zhang, J. Wang, and Z. Liang, "Low-dose CT image reconstruction by adaptive-weighted TV-constrained penalized weighted least-squares approach", *Proceedings of The Second International Conference on Image Formation in X-Ray Computed Tomography*, 2012
- \*J. Wang and T. Solberg, "Scatter correction for cone-beam computed tomography using moving blocker", 12th World Congress on Medical Physics and Biomedical Engineering, 2012

- 8. \*L. Ouyang, T. Solberg and J. Wang, "Noise Reduction in Low-Dose Cone Beam CT by Incorporating Prior Volumetric Image Information ", 12th World Congress on Medical Physics and Biomedical Engineering, 2012
- 9. \*J. Wang, W. Mao, and T. Solberg, "Scatter correction for cone-beam computed tomography using moving blocker strips", *SPIE Medical Imaging*, 2011
- 10. Y. Fan, H. Lu, H. Zhu, J. Wang, Q. Lin, Y. Liu, Z. Liang, "A novel noise suppression solution in cone-beam CT images", *SPIE Medical Imaging*, 2011
- 11. \*Y. Yang, Z. Zhong, G. Rong, X. Guo, J. Wang, T. Solberg, and W. Mao, "Real-Time GPU-Aided Lung Tumor Tracking", *Fourth Pacific-Rim Symposium on Image and Video Technology*, 2010
- 12. \*Y. Fan, H. Zhu, H. Lu, J. Wang, and Z. Liang, "Noise-reduction for low-dose cone-beam CT sinograms", *The First International Meeting on Image Formation in X-Ray Computed Tomography*, 2010
- 13. \*T. Solberg, J. Wang, X. Zhang, W. Mao, and L. Xing, "Enhancement of 4D Cone-beam Computed Tomography through Constraint Optimization", *International Conference on the Use of Computers in Radiation Therapy*, 2010
- 14. J. Wang, and L Xing, "Low-Dose Cone-Beam CT Imaging for Radiotherapy", *International Conference on the Use of Computers in Radiation Therapy*, 2010
- 15. L. Xing, and **J. Wang**, "A binary image reconstruction technique for accurate determination of the shape and location of metal objects in x-ray computed tomography", *International Conference on the Use of Computers in Radiation Therapy*, 2010
- X. Zhang, J. Wang, and L. Xing, "A Constrained Optimization Approach for Metal Artifact Reduction in Computed Tomography", *International Conference on the Use of Computers in Radiation Therapy*, 2010
- 17. B. Meng, **J. Wang**, and L. Xing, "Binary CT image reconstruction with limited number of projections for metal artifacts removal", *International Conference on the Use of Computers in Radiation Therapy*, 2010
- 18. \*K .Choi, J. Wang, L. Zhu, T. Suh, S. Boyd, and L Xing, "Compressed Sensing with A First-Order Method for Low-Dose Cone-Beam CT Reconstruction", *International Conference on the Use of Computers in Radiation Therapy*, 2010
- 19. J. Wang, and L. Xing, "Accurate determination of the shape and location of metal objects in x-ray computed tomography", *Proc. SPIE Medical Imaging*, 2010
- 20. \*X. Zhang, J. Wang, and L. Xing, "Constrained optimization for CT metal artifact reduction", *Proc. SPIE Medical Imaging*, 2010
- 21. \*J. Wang, T. Li, and L. Xing, "Low-Dose Cone-Beam CT Imaging for Radiotherapy", *Proc.* 11th World Congress on Medical Physics and Biomedical Engineering, 2009
- 22. J. Wang, A. Chai, and L. Xing, "Noise correlation in CBCT projection data and its application for noise reduction in low-dose CBCT", *Proc. SPIE Medical Imaging*, 7258-84, 2009
- 23. Y. Fan, J. Wang, H. Lu, Z. Liang, "Implementation of an effective KL domain penalized weighted least-squares sinogram restoration for low-dose CT colonography" *Proc. SPIE Medical Imaging*, 7258-194, 2009
- 24. **\*J. Wang,** H. Lu, D. Eremina, G. Zhang, S. Wang, J. Chen, J. Manzione, and Z. Liang, "An experimental study on the noise properties of X-ray CT sinogram data in the Radon space", *Proc. SPIE Medical Imaging*, 2008
- 25. **\*J. Wang**, H. Lu, T. Li, and Z. Liang, "Gain of KL-domain adaptive FBP reconstruction for 4-D dynamic CT", *Conf. of IEEE NSS and MIC*, 2007
- 26. J. Wang, S. Wang, L. Li, H. Lu, and Z. Liang, "Virtual colonoscopy screening with ultra low-dose CT: a simulation study", *Conf. of IEEE NSS and MIC*, 2007
- 27. Z. Liang, S. Wang, H. Lu, and J. Wang, "Model parameter estimation and tissue mixture segmentation by a MAP-EM algorithm", *Conf. of IEEE NSS and MIC*, 2007
- 28. **\*J. Wang**, H. Lu, T. Li, and Z. Liang, "Noise reduction for four dimension dynamic computed tomography", *International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine*, 2007

- 29. L. Li, S. Wang, J. Wang, D. Eremina, X. Wei, and Z. Liang, "A new electronic colon cleansing method for virtual colonoscopy", *SPIE Medical Imaging*, vol. 6511, 2007
- L. Li, Z. Wang, S. Wang, J. Wang, and Z. Liang, "Gain by mixture-based image segmentation for virtual colonoscopy with colonic material tagging", *SPIE Medical Imaging*, vol. 6511, 2007
- 31. J. You, J. Wang, Z. Liang, "Consistency condition and ML-EM Checkerboard artifacts", *Conf. Record of IEEE NSS and MIC*, vol. 4, pp.2245-2250, 2006
- 32. \*J. Wang, Z. Liang, H., Lu, "Multiscale penalized weighted least-squares sinogram restoration for low-dose X-ray computed tomography", *International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, pp. 3282-3285, 2006
- 33. J. Wang, T. Li, H. Lu, and Z. Liang, "Noise reduction of low-dose helical CT by 3D penalized weighted least-squares sinogram smoothing", *SPIE Medical Imaging*, vol. 6142, pp. 1434-1441, 2006
- 34. J. Wang, T. Li, H. Lu, and Z. Liang, "Penalized weighted least-squares approach for lowdose x-ray computed tomography", *SPIE Medical Imaging*, vol. 6142, pp. 1369-1380, 2006
- D. Eremina, X. Li, W. Zhu, J. Wang, and Z. Liang, "Investigation on an EM Framework for Partial Volume Image Segmentation", *SPIE on Medical Imaging*, vol. 6144, pp. 1398-1406, 2006
- 36. J. Wang, H. Lu, T. Li, and Z. Liang, "Sinogram Noise reduction for Low-dose CT by statistics-based nonlinear filters", *SPIE Medical Imaging*, vol. 5747. pp. 2058-2066, 2005
- 37. J. Wang, T. Li, H. Lu, and Z. Liang, "Noise reduction for low-dose single-slice helical CT sinogram", *Conf. Record of IEEE NSS and MIC*, vol. 5, pp. 2769 2773 2004
- 38. T. Li, J. Wang, J. Wen, X. Li, H. Lu, J. Hsieh, and Z. Liang "SNR-weighted sinogram smoothing with improved noise-resolution properties for low-dose X-ray computed tomography", *SPIE Medical Imaging*, vol. 5370, pp. 2058-2066, 2004.

*Conference Abstract:* (\* denotes oral presentation)

- 1. \*Z. Li and J. Wang, "Patient-Specific Biomechanical Model of Human Lung Using Four-Dimensional CT", *AAPM Annual Meeting*, 2012
- 2. **\*J. Wang**, X. Gu, and T. Solberg, "High Quality Four Dimensional Cone-Beam CT by Deforming Prior Planning CT", *AAPM Annual Meeting*, 2012
- 3. J. Wang and T. Solberg, "Lung Ventilation Image from Enhanced Four-dimension Conebeam Computed Tomography", *ASTRO Annual Meeting*, 2011
- 4. \*J. Wang, J. Robar, and H. Guan, "Noise Suppression in Reconstruction Low-Z Target MV CBCT Images", *AAPM Annual Meeting*, 2011
- 5. J. Wang, L. Ouyang, and T. Solberg, "Low-Dose CBCT by Iterative Image Reconstruction Using Non-Local Edge-Preserving Prior", *AAPM Annual Meeting*, 2011
- 6. \*L. Ouyang, T. Solberg, and **J. Wang**, " Dose Reduction for CBCT by Incorporating Prior Volumetric Image Information", *AAPM Annual Meeting*, 2011
- W. Lu, W. Yao, J. Wang and D. Yang "Noise Reduction with Detail Preservation for Low-Dose KV CBCT Using Non-Local Means: Simulated Patient Study", *AAPM Annual Meeting*, 2011
- 8. B. Meng, J. Wang, and L. Xing, "Metal Artifacts Reduction Using Sinogram Pre-Processing and Post-Processing in Computed Tomography (CT)", *AAPM Annual Meeting*, 2011
- 9. X. Zhang, L. Xing, and **J. Wang**, "CT Metal Artifact Reduction by Dual Constrained Optimizations", *ASTRO Annual Meeting*, 2010
- 10. **\*J. Wang**, W. Mao, and T. Solberg, "A novel scatter correction scheme for cone-beam computed tomography using moving 1D blocker strips", *AAPM Annual Meeting*, 2010
- 11. J. Wang, H. Guan, and T. Solberg, "Optimize the smoothing parameter in penalized weighted least-squares algorithm for noise reduction of low-dose CBCT", *AAPM Annual Meeting*, 2010
- 12. L. Ouyang, T. Solberg, and **J. Wang**, "Penalized weighted lease-Squares image reconstruction for low-dose CBCT: a comparison study of different edge-preserving penalties", *AAPM Annual Meeting*, 2010

- 13. \*W. Lu, D. Yang, and **J. Wang**, "Noise reduction with detail preservation for low-dose kilovoltage CBCT using nonlocal means algorithm", *AAPM Annual Meeting*, 2010
- W. Mao, J. Wang, R. Foster, K Song, and T. Solberg, "Direct investigation of geometric coincidence among Calypso system, onboard kV imaging, and MV treatment beam imaging", *AAPM Annual Meeting*, 2010
- 15. B. Meng, J Wang, S. Boyd, and L. Xing, "Binary CT image reconstruction with limited number of projections for metal artifacts removal", *AAPM Annual Meeting*, 2010
- 16. \*X. Zhang, J. Wang, and L. Xing, "A Constrained Optimization Algorithm for CT Metal Artifact Reduction", *AAPM Annual Meeting*, 2010
- 17. \*K .Choi, **J. Wang**, L. Zhu, T. Suh, S. Boyd, and L Xing, "Compressed Sensing with a First-Order Method for Low-Dose Cone-Beam CT Reconstruction", *AAPM Annual Meeting*, 2010
- \*J. Wang, and L. Xing, "Incorporation of Prior Volumetric Image Information into Conebeam CT (CBCT) Reconstruction: a Novel Strategy of Imaging dose Reduction for Daily Patient Set-up and Adaptive Radiation Therapy", ASTRO Annual Meeting, 2009
- 19. K.Choi, J. Wang, L. Zhu, Y. Ye and L. Xing, "CBCT Image Reconstruction via Anisotropic Total-Variation Regularization", *ASTRO Annual Meeting*, 2009
- 20. X. Zhang, J. Wang, and L. Xing, "Metal Artifact Reduction in Cone-Beam CT by Constrained Optimization", *ASTRO Annual Meeting*, 2009
- 21. \*J. Wang and L. Xing, "Accurate noise modeling of cone-beam CT projection data", *AAPM Annual Meeting*, 2009
- 22. J. Wang, T. Li, and L. Xing, "Iterative image reconstruction for CBCT using edgepreserving prior", AAPM Annual Meeting, 2009
- 23. \*L. Xing, **J. Wang**, and L. Zhu, "Noise suppression in scatter correction for Cone-Beam CT", *AAPM Annual Meeting*, 2009
- 24. **\*J. Wang**, T. Li, and L. Xing, "Low-dose CBCT Imaging for External Beam Radiotherapy", *ASTRO Annual Meeting*, 2008
- 25. X. Zhang, J. Wang, L. Zhu, and L. Xing, "Low-dose X-ray fluoroscopy for Image Guided Radiation Therapy (IGRT)", *ASTRO Annual Meeting*, 2008
- 26. \*J. Wang, T. Li, Z. Liang and L. Xing, "Dose reduction for kilovoltage cone-beam computed tomography in radiation therapy", *AAPM Annual Meeting*, 2008 (selected for long presentation at the John S. Laughlin Science Council Research Symposium)
- 27. J. Wang, L. Zhu, A. Chai, and L. Xing, "Temporal filtering of noise in low-dose x-ray fluoroscopy", *AAPM Annual Meeting*, 2008
- 28. L. Zhu, J. Wang, Y. Xie, J. Starman, R. Fahrig, and L. Xing, "A patient set-up protocol based on partially blocked cone-beam CT", *AAPM Annual Meeting*, 2008
- 29. J. Wang, T. Li, and L. Xing, "Iterative image reconstruction for on-board CBCT", *Electronic Portal Imaging & Positioning Devices*, 2008
- \*J. Wang, M. Cao, and L. Xing, "Toward Clinical Implementation of Adaptive Treatment Planning: Auto-Propagation of Contours from Planning CT to Cone Beam CT Images", *ASTRO Annual Meeting*, 2007
- 31. J. You, J. Wang, and Z. Liang, "An investigation on FBP reconstruction for attenuated Radon transform with partial data", *The Annual Meeting of Society of Nuclear Medicine*, 2007.

#### **Student Supervision**

Postdoctoral Fellows

- 1. <u>Jun Dang</u>, Ph.D., Department of Radiation Oncology, the University of Texas Southwestern Medical Center, October 2012- present
- 2. <u>Zhiliang Li</u>, Ph.D., Department of Radiation Oncology, the University of Texas Southwestern Medical Center, June 2011- February 2012

#### Ph.D. Dissertation Students

1. Dissertation advisor of <u>Luo Ouyang</u>, Radiological Sciences Graduate Program, the University of Texas Southwestern Medical Center, January 2010- present