

**Jinsheng Li, Ph.D.**  
**Curriculum Vitae**

Department of Radiation Oncology, Fox Chase Cancer Center  
333 Cottman Ave., P2023, Philadelphia, PA 19111

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**Education**

- **Postdoctoral Residency in Medical Physics**, Nov. 1998 – Sept. 2001  
Division of Radiation Physics, Department of Radiation Oncology  
Stanford University School of Medicine, Stanford, CA.
- **Doctor of Philosophy and Master of Engineering**, 1997  
Department of engineering physics, Tsinghua University, Beijing, China  
Major: Radiation Physics
- **Bachelor of Science**, 1992  
Department of engineering physics, Tsinghua University, Beijing, China  
Major: Nuclear Electronics and Radiation Detection Technique

**Positions**

- **Associate Member, Medical Physicist**, April 2002 – Present  
Department of Radiation Oncology, Fox Chase Cancer Center
- **Research Associate**, September 2001 – March 2002  
Department of Radiation Oncology, Fox Chase Cancer Center
- **Postdoctoral Fellow**, November 1998 – September 2001  
Department of Radiation Oncology, Stanford University School of  
Medicine
- **Postdoctoral Fellow**, May 1997 – October 1998  
**HERA-B group, Deutsches Elektron-Synchrotron(DESY),  
Hamburg, Germany**
- **Research Assistant**, August 1991 – January 1997
- Department of Engineering Physics, Tsinghua University, Beijing, China

**Awards and Honors**

- 2009 Edition of Who's Who in America
- The LAP Award of Excellence for the Best Radiation Oncology Article of JACMP, 2007
- Award of NACMPA travel grants to the International Congress of Medical Physics meeting, Hangzhou, China, 2006
- Chief Medical Physics Resident, Department of Radiation Oncology, Stanford University School of Medicine (Jan. 2001 – July 2001)
- Postdoctoral Fellowship, Stanford University, November 1998 – September 2001
- Major National Award for Important Achievement in Science & Technology, Beijing, 1996
- Excellent Academic Achievement Award, Beijing, 1994
- Excellent Graduation Award, Beijing, 1992

**Session Chair/Organizer**

- Session Chair of AAPM Annual meetings (2005 and 2006)
- Course coordinator of the Short course on introduction to Monte Carlo Treatment Planning, Fox Chase Cancer Center, 2002-2008

#### **Referee and Editorial Position**

- Guest associate editor and Referee of *Medical Physics* since 2000
- Referee of *Physics in Medicine and Biology* since 2000
- Referee of *International Journal of Radiation Oncology Biology Physics* since 2002
- Referee of *Healthy Physics* since 2002
- Referee of *International Journal of Applied Medical Physics* since 2004
- Referee and session chair for AAPM annual meeting since 2003

#### **Professional Affiliations and Scientific Committees**

- Full Member of American Institute of Physics (AIP)
- Associate Member of American Society for therapeutic Radiology and Oncology (ASTRO)
- Full Member of American Association of Physicists in Medicine (AAPM)
- Full Member of AAPM Delaware Local Chapter (DVC)
- Committee Member of AAPM Task Group 157

#### **Board Certification**

- The American Board of Radiology (ABR) on Therapeutic Physics, 2005

#### **Radiation Oncology Clinic Experience**

- Linac monthly and annual calibration
- Linac acceptance and commissioning
- Initial and weekly physics chart review
- Prostate seed implant since 2002
- Low dose rate brachy-therapy since 2002
- Monte Carlo treatment planning
- Breast IMRT, 2002-2006
- Hypofractionated Breast treatment, 2003-2006
- IMRT dose verification since 2001
- Record and verify system (IMPAC) since 2002
- Calypso 4D localization for prostate treatment since 2007
- Imaging guided radiation therapy

#### **Teaching Experience**

- Invited speaker at the 2006 AAPM annual meeting “Advanced technology for radiation therapy” symposium
- Invited speaker at the AAPM DVC 2008 Spring Symposium on “novel imaging and therapy techniques for cancer therapy”.
- Course coordinator and faculty instructor of “Short course on introduction to Monte Carlo Treatment Planning”, Fox Chase Cancer Center, 2002-2008
- Faculty instructor of “Short course on intensity modulated radiation therapy”, Fox Chase Cancer Center, 2002-2005

- Faculty member of both the radiation oncology residency program and the medical physics residency program at FCCC since 2001
- Instructor of “Radiation Oncology Residency Training Course”, Fox Chase Cancer Center since 2001
- Instructor of “Radiation Oncology Residency Training Course”, Stanford University School of Medicine, 1999-2001
- Instructor for “Stanford Monte Carlo Treatment Planning (MCTP) Short Course”, Stanford University School of Medicine. 2000
- Instructor of “Experiment of Radiation Detection” for undergraduate student, Tsinghua University, Beijing, China, 1992-1996
- Instructor of “Software Engineering” course for undergraduate student, Tsinghua University, Beijing, China, 1992-1996

### **Research Projects**

- Fox Chase Cancer Center, September 2001 – Present
  - Breast IMRT with mixed beam and hypofractionation
  - 4D localization
  - 4D radiation therapy
  - Beam modeling and commission for Monte Carlo treatment planning
  - Monte Carlo dosimetry for radiation brachy-therapy
  - Monte Carlo dose verification for Intensity Modulated Radiation Therapy (IMRT)
  - Modulated electron beam radiation therapy (MERT)
  - Laser accelerated proton beams for radiation therapy
- Stanford University School of Medicine, November 1998 – September 2001
  - Monte Carlo Treatment Planning
  - Variance Reduction Techniques
  - Monte Carlo patient dose calculation
  - Radiation and light transport theory
  - Quality assurance for dose calculation and beam delivery
  - Monte Carlo simulation for linear accelerator
- Deutsches Elektron-Synchrotron (DESY), Germany, May 1997 – October 1998
  - Data acquisition system for B factory experiment (Software and Hardware)
- Tsinghua University, Beijing, China, August 1991- January 1997
  - National Eighth Five-Year Key Research Project “Large Container Inspection System”
  - A general user code of EGS4 with graphic user interface
  - Electron-accumulated ion-chamber for the radiation detection

### **Research Funding**

- “Monte Carlo projects for Cyberknife, Stage I, II and III”, Co-PI, Accuray Inc, 2006-2008

- “Monte Carlo Tools for IMRT”, Investigator, National Institute of Health (NIH:RO1): CA78331, 2003-2006

### Patents

- US 60/638,870 “Laser-accelerated Proton Therapy Units and Superconducting Elettromagnetig Systems for Same”, Co-inventor

### Invited Talks

1. Gains from Real-time Prostate Motion Monitoring During External Beam Radiation Therapy, The First SANTRO Symposium 2008, Beijing, August 28-30, 2008
2. 4D Localization for Prostate treatment, AAPM DVC Spring Symposium “Innovative Techniques in Radiation Oncology and Imaging”, May 16, 2008
3. Advanced Mixed Beam Therapy Combining IMRT and MERT, AAPM Annual meeting, Orlando, FL, August 2006
4. Breast IMRT and Monte Carlo dose calculation, Department of Radiation Oncology, NIH, September 2004
5. Monte Carlo for Radiation Therapy, Department of Radiation Oncology, Fox Chase Cancer Center, July 2001
6. Monte Carlo applications in Intensity Modulated Radiation Therapy, Department of Radiation Oncology, Duke University, June 2001
7. Monte Carlo for IMRT, Department of Medical Physics, Rush University, June 2001
8. Monte Carlo for IMRT, Division of Medical Oncology, University of Arkansas Medical Science, May 2001
9. Monte Carlo applications in Radiation Therapy, Department of Radiation Oncology, University of California, Irvine, May 2001

### Publications (Peer Reviewed Scientific Papers)

1. **Li JS**, Jin L, Horwitz E, Buyyounouski M, Price Jr RA, Pollack A and Ma C-M, Gains from real-time prostate motion tracking during external beam radiation therapy, *Int. J. of Radia. Onco. Biol. Phys.* 2008 (Submitted)
2. **Li JS** and Ma C-M, 4D radiation therapy for prostate cancer, *Int J Bio Eng Tech*, 2008 (In Press)
3. Luo W, **Li JS**, Fourkal E, Fan J, Jin L, R Price and Ma C-M Dosimetric advantages of IMPT over IMRT for laser accelerated proton beams, *Phys. Med. Biol.* **53** p7151-66, 2008
4. Jin L, Ma C-M, Fan J, Eldib A, Price Jr RA, Chen L, Wang L, Chi Z, Xu Q, Sherif M and **Li JS**, Dosimetric verification of modulated electron radiotherapy delivered using a photon multi-leaf collimator for intact breast, *Phys. Med. Biol.* **53** p6009-25, 2008
5. Lin T, Chen Y, Hossain M, **Li JS** and Ma C-M, Dosimetric Investigation of High Dose Rate, Gated IMRT, *Med. Phys.*, **35** (11) pp. 5079-87, 2008
6. **Li JS** and Ma C-M, A method to reduce the statistical uncertainty caused by high-energy cutoffs in Monte Carlo treatment planning, *J. Phys.: Conf. Ser.*, 102 012015, 2008

7. Ma CM, **Li JS**, Deng J and Fan J, Implementation of Monte Carlo dose calculation for Cyberknife treatment planning, *J. Phys.: Conf. Ser.*, 102 012016, 2008
8. Ding M, Newman F, Gaspar L, Kavanagh B, Stuhr K, Raben D, **Li JS** and Ma CM, A 4D treatment planning tool for the evaluation of motion effects on lung cancer treatments, *J. Phys.: Conf. Ser.*, 102 012008, 2008
9. Freedman GM, Anderson PR, Goldstein LJ, Ma CM, **Li JS**, Swaby RF, Litwin S, Watkins-Bruner D, Sigurdson ER and Morrow M, Four-week course of radiation for breast cancer using hypofractionated intensity modulated radiation therapy with an incorporated boost, *Int. J. of Radia. Onco. Biol. Phys.*, **68(2)**, p347-53, 2007
10. Xiong W, Huang D, Lee L, Feng J, Morris K, Calugaru E, Burman C, **Li JS**, Ma C-M, Implementation of Monte Carlo Simulations for the Gamma Knife system, *J. Phys.: Conf. Ser.*, 74 021023, 2007
11. Tang F, Sham J, Ma CM and **Li JS**, Monte Carlo-based QA for IMRT of head and neck cancers, *J. Phys.: Conf. Ser.*, 74 021021, 2007
12. Sotirios Stathakis, **Jinsheng Li**, Charlie C. M. Ma Monte Carlo determination of radiation induced cancer risks for prostate IMRT patients, *J. of Applied Clinical Medical Physics*, **8(4)**, Fall, 2007
13. Fan J, Luo W, Fourkal E, Lin T, **Li JS**, Veltchev I and C-M Ma, Shielding design for a laser-accelerated proton therapy system, *Phys. Med. Biol.* **52(13)**, p3913-30, 2007
14. Jin L, Wang L, **Li JS**, Luo W, Feigenberg SJ and Ma C-M, Investigation of optimal margins for stereotactic radiotherapy of lung-cancer using Monte Carlo dose calculations, *Phys. Med. Biol.* **52(12)**, p3549-61, 2007
15. Wei Luo, **Jinsheng Li**, Robert A. Price, Jr., Lili Chen, Jie Yang, Jiajin Fan, Zuoqun Chen, Shawn McNeeley, Xiu Xu, and Chang-Ming Ma, Monte Carlo based IMRT dose verification using MLC log files and R/V outputs, *Medical Physics*, **33(7)**, p2557-64, 2006
16. Stathakis S, **Li JS**, Paskalev K, Yang J, Wang L and Ma C\_M, Ultra-thin TLDs for skin dose determination in high energy photon beams, *Phys. Med. Biol.* **51(14)**:3549-67, 2006
17. Fan J, **Li JS**, Chen L, Stathakis, Luo W, Du Plessis F, Xiong W, Yang J and Ma C\_M, A practice Monte Carlo MU verification tool for IMRT quality assurance, *Phys. Med. Biol.* **51(10)**, p2503-15, 2006
18. Gary M Freedman, MD, Penny R Anderson, MD, **Jinsheng Li, PhD**, Debra F Eisenberg, MS, Alexandra L Hanlon, PhD, Lu Wang, PhD and Nicos Nicolaou, MD, Intensity Modulation Radiation Therapy (IMRT) Decreases Acute Skin Toxicity for Women Receiving Radiation for Breast Cancer, *American Journal of Clinical Oncology*, Vol **29 (1)**, p66-70, 2006
19. Lu Wang, **Li JS**, Paskalev K, Hoban P, Luo W, Chen L, McNeeley S, Price R and Ma C-M, Commissioning and quality assurance of a commercial stereotactic treatment-planning system for extracranial IMRT, *J. of Applied Clinical Medical Physics*, **7(1)**, p21-34, 2006
20. Chen Z, Ma C-M, Paskalev K, **Li JS**, Yang J, Richardson T, Palacio L, Xu X and Chen L, Investigation of MR image distortion for radiotherapy treatment planning of prostate cancer, *Phys. Med. Biol.* **51(6)**, p1393-1404, 2006

21. Wei Luo, Eugene Fourkal, **Jinsheng Li** and C-M Ma, Particle selection and beam collimation system for laser-accelerated proton beam therapy, *Medical Physics*, **32(3)**, p794-806, 2005
22. Xiong W, **Li JS** and Ma C-M, Effect of patient variation on standard- and hypo-fractionated radiotherapy of prostate cancer, *Phys. Med. Biol.* **50(7)**, p1483-92, 2005
23. **Li J.S.**, Shahine B., Fourkal E., Ma C.M., A Particle Track Repeating Algorithm for Proton Beam Dose Calculation. *Phys. Med. Biol.* **50(5)**, p1001-1011, 2005
24. Ma C.M., **Li J.S.**, Jiang S.B., Pawlicki T., Xiong W., Qin L.H., Yang J., Effect of statistical uncertainties on Monte Carlo treatment planning. *Phys. Med. Biol.* **50(5)**, p891-909, 2005
25. Yang J., **Li J.S.**, Chen L., Price R.A., McNeeley S., Qin L.H., Wang L., Xiong W., Ma C.M., Investigation of Heterogeneity Effect and Dose Verification for IMRT Using Monte Carlo Simulations. *Phys. Med. Biol.* **50(5)**, p869-879, 2005
26. Wang L., Hoban P., Paskalev K., Yang J., **Li J. S.**, Chen L., Xiong W., Ma C.M., Dosimetric Advantage and Clinical Implication of a micro-Multileaf Collimator in the Treatment of Prostate with Intensity Modulated Radiotherapy. *Medical Dosimetry.* **30(2)**, p97-103, 2005
27. L Chen, RA Price, L Wang, L Qin, M Ding, **J.S. Li**, E Paralia, C-M Ma, A Pollack, "Evaluation of MRI based treatment planning for prostate cancer using a commercial TPS", *Phys. Med. Biol* **49(22)**, p5157-70, 2004
28. Lili Chen, Robert A Price Jr., Lu Wang, **Jinsheng Li**, Lihong Qin, Shawn McNeeley, C-M Charlie Ma, Gary M Freedman, Alan Pollack, "MRI Based Treatment Planning for Radiotherapy: Dosimetric Verification for Prostate IMRT", *Int. J. of Radia. Onco. Biol. Phys.*, **60(2)**, p636-47, 2004
29. J Yang, **J.S. Li**, L Qin, W Xiong and C-M Ma, " Modeling of electron contamination in clinical photon beams for Monte Carlo doe calculation", *Phys. Med. Biol.* **49(12)**: pp2657-73, 2004
30. W Xiong, **J.S. Li**, L Chen, RA Price, G Freedman, M Ding, L Qin, J yang and C-M Ma, "Optimization of combined electron and photon beams for breast cancer", *Phys. Med. Biol.* **49(10)**: pp1973-89, 2004
31. C-M Ma, RA Price Jr., **J.S. Li**, L Chen, L Wang, E Fourkal, L Qin and J Yang, "Monitor unit calculation for Monte Carlo treatment planning", *Phys. Med. Biol.* **49(9)**: pp1671-87, 2004
32. **J.S. Li**, G Freedman, R Price, L Wang, P Anderson, L Chen, W Xiong, Jie Yang, A Pollack and C-M Ma, "Clinical Implementation of Intensity-Modulated Tangential Beam Irradiation for Breast Cancer", *Med. Phys.* **31** (5) pp1023-31, 2004
33. Fourkal, E., **Li, J.S.**, Xiong, W., Nahum, A.E., and Ma, C.M. Intensity modulated radiation therapy using laser-accelerated protons: a Monte Carlo dosimetric study, *Phys. Med. Biol.* **48(24)**: pp3977-4000, 2003
34. M Ding, **J.S. Li**, J Deng, E Fourkal and C-M Ma, "Dose Correlation for thoracic motion in radiation therapy of breast cancer", *Med. Phys.* **30(9)** pp 2520-9, 2003
35. E Fourkal, **J.S. Li**, M Ding, T Tajima, CM Ma, "Particle selection for laser-accelerated proton therapy feasibility study", *Med. Phys.* **30(7)** pp 1660-70, 2003

36. C-M Ma, M Ding and **J. S. Li**, MC Lee, T Pawlicki and J Deng, "A Comparative Dosimetric Study on Tangential Photon Beams, IMRT and MERT for Breast Cancer Treatment", *Physics in Medicine and Biology*, **48(7)** pp 909-24, 2003
37. C.-M. Ma, S. B. Jiang, T. A. Pawlicki, Y. Chen, **J. S. Li**, J. Deng and A. L. Boyer, "A quality assurance phantom for IMRT dose verification", *Physics in Medicine and Biology*, **48(5)**, pp561-572, 2003
38. E Fourkal, B Shahine, M Ding, **J.S. Li**, T Tajima and C-M Ma, "Particle in Cell Simulation of Laser Accelerated Proton Beams for Radiation Therapy", *Med. Phys.*, **29(12)**, pp2788-98, 2002
39. C.-M. Ma, **J. S. Li**, T. Pawlicki, S. B. Jiang, J. Deng, M.C. Lee, T. Koumrian, M. Luxton and S. Brain, "A Monte Carlo Dose Calculation Tool for Radiation Therapy Treatment Planning", *Physics in Medicine and Biology*, **47(10)**, pp1671-1689, 2002
40. Michael Blomquist, **Jinsheng Li**, C.-M. Ma, Björn Zackrisson and Mikael Karlsson, "Comparison between a conventional treatment energy and 50 MV photons for the treatment of lung tumors", *Physics in Medicine and Biology*, **47(8)**, pp889-897, 2002
41. **J. S. Li**, A. L. Boyer and C.-M. Ma, "Verification of IMRT dose distributions using a water beam imaging system", *Medical Physics*, **28(12)**, pp2466-2474, 2001
42. Michael C. Lee, Jun Deng, **Jinsheng Li**, Steve B. Jiang, C.-M. Ma, "Monte Carlo based treatment planning for modulated electron beam radiation therapy", *Physics in Medicine and Biology*, **46(8)**, p2177-2199, 2001
43. Jun Deng, Steve B. Jiang, **Jinsheng Li**, Todd Pawlicki, and C.-M. Ma, "Derive electron and photon energy spectra from electron central axis depth dose curves", *Physics in Medicine and Biology*, **46(5)** p1429-1449, 2001
44. Jun Deng, T. Pawlicki, Y. Chen, **Jinsheng Li**, S. B. Jiang and C.-M. Ma "The MLC tongue-and-groove effect on IMRT dose distributions", *Physics in Medicine and Biology*, **46(4)** p1039-1060, 2001
45. **J. S. Li**, T. Pawlicki, J. Deng, S.B. Jiang, E. Mok and C.-M. Ma, "Validation of a Monte Carlo dose calculation tool for radiotherapy treatment planning", *Physics in Medicine and Biology*, **45(10)** p2969-2985, 2000
46. C.-M. Ma, T. Pawlicki, S. B. Jiang, **J. S. Li**, J. Deng, E. Mok, A. Kapur, L. Xing, L. Ma and A. L. Boyer, "Monte Carlo verification of IMRT dose distributions from a commercial treatment planning optimization system", *Physics in Medicine and Biology*, **45(9)** p2483-95, 2000
47. C.-M. Ma, T. Pawlicki, M. C. Lee, S. B. Jiang, **J. S. Li**, J. Deng, B. Yi, E. Mok and A. L. Boyer, "Energy- and intensity- modulated electron beams for radiotherapy", *Physics in Medicine and Biology*, **45(8)** p2293-2311, 2000
48. J. Deng, S. B. Jiang, A. Kapur, **J. S. Li**, T. Pawlicki and C.-M. Ma, "Photon beam characterization and modeling for Monte Carlo treatment planning", *Physics in Medicine and Biology*, **45(2)** p411-427, 2000
49. **Li Jinsheng**, Liu Guilin and Zhang Jingyi, "Study on some performances of an array ion-chamber using EGS4 code", *Nuclear Electronic and Detection Technique* (in Chinese), Vol6 pp361:364, 1996

Publications (Short Papers/Proceedings/Technical Reports)

1. **JS Li**, J Fan, J Deng and C-M Ma, Monte Carlo treatment planning for a stereotactic radiotherapy system, *Proc. XVth ICCR* (Toronto, Canada) , Vol. 1, P470-474, 2007
2. Z Chen, C-M Ma, J Yang, **JS Li**, W Luo, J Fan, K Paskalev, R Price, Y Chen and L Chen, Monte Carlo dose verification of MR image based IMRT treatment planning for prostate cancer, Conference Proceeding of XVth International Conference on the Use of Computers in Radiation Therapy (ICCR) (Edited by J-P Bissonnette, Novel Digital Publishing, Oakville, Ontario Canada), Vol.2 , P267-271, 2007
3. C-M Ma, E Fourkal, I Veltchev, **JS Li**, W Luo, J Fan, T Lin and A Pollack, Development of a laser-proton radiotherapy system, *Proc. XVth ICCR* (Toronto, Canada) , Vol.2 , P521-525, 2007
4. L Qin, L Chen, **JS Li**, RA Price, J YANG, W Xiong and C-M Ma, "Phase space analysis of Siemens Electron beams for Monte Carlo treatment planning", *Proc. XIVth ICCR* (Seoul, Korea) , 2004
5. L Qin, **JS Li**, RA Price, L Chen, S McNeeley, M Ding, E Fourkal, G Freedman and C-M Ma, "A Monte Carlo based treatment optimization tool for modulated electron radiation therapy", *Proc. XIVth ICCR* (Seoul, Korea) , 2004
6. **JS Li**, J Yang, L Qin, W Xiong and C-M Ma, "MCBEAM – A Monte Carlo Tool for Beam Simulation", *Proc. XIVth ICCR* (Seoul, Korea) , 2004
7. L Chen, **JS Li**, RA Price, L Wang, S McNeeley, M Ding, L Qin, ZQ Chen and C-M Ma, "Investigation of MR-based treatment Planning for Lung and Head & Neck using Monte Carlo simulations", *Proc. XIVth ICCR* (Seoul, Korea) , 2004
8. C-M Ma, **JS Li**, T Pawlicki, SB Jiang, J Deng, RA Price, L Chen, L Wang, E Fourkal, LH Qin, W Xiong, "MCSIM – A Monte Carlo Dose Calculation Tool for Radiation Therapy", *Proc. XIVth ICCR* (Seoul, Korea) , 2004
9. C-M Ma, E Fourkal, **JS Li**, B Shahine, MC Lee, S McNeeley, W Xiong, W Luo and A Pollack, "A Laser-Proton Therapy System for Radiation Oncology", *Proc. XIVth ICCR* (Seoul, Korea) , 2004
10. Ma, C.-M., Price, R.A., McNeeley, S., Chen, L., **Li, J.S.**, Wang, L., Ding, M., Fourkal, E., Qin, L. Clinical implementation and quality assurance for intensity modulated radiation therapy. *In Standards and Codes of Practice in Medical Radiation Dosimetry*, (IAEA, Vienna, 2003) IAEA-CN-96-120, pp369-80.
11. **JS Li** and C-M Ma, MCPHANTOM users manual, internal report FCCC-RADPHYS-0301 (Fox Chase Cancer Center, Radiation Oncology Department, Philadelphia, 2003)
12. **JS Li** and C-M Ma, MCBEAM users manual, internal report FCCC-RADPHYS-0203 (Fox Chase Cancer Center, Radiation Oncology Department, Philadelphia, 2002)
13. C-M Ma, **JS Li**, T Pawlicki, SB Jiang and J Deng, MCSIM users manual, internal report FCCC-RADPHYS-0201 (Fox Chase Cancer Center, Radiation Oncology Department, Philadelphia, 2002)
14. Ma CM, Pawlicki T, **Li JS**, Deng J, Lee MC, Kapur A, Price RA, McNeeley S, Chen L, Fourkal E and Ding M, Accurate Dosimetry for Intensity Modulated Radiation Therapy, in *Accurate Dosimetry for*

- Radiation Dosimetry, Ed. J Seuntjens and P Mobit (Med. Phys. Publishing, Madison, 2002) 249-267
15. C.M. Ma, **JS Li**, T Pawlicki, SB Jiang and J Deng, MCDOSE: a Monte Carlo dose calculation tool for radiotherapy treatment planning, internal report SU-RADONC-PHYS-R0002 (Stanford University, Radiation Oncology Department, Stanford, 2000)
  16. J Deng, T Pawlicki, SB Jiang, **JS Li**, Ma C-M, MLC leaf sequencer users manual, internal report SU-RADONC-PHYS-R0005 (Stanford University, Radiation Oncology Department, Stanford, 2000)
  17. J Deng, SB Jiang, **JS Li**, T Pawlicki, Ma C-M, MCTP: Electron beam commissioning users manual, internal report SU-RADONC-PHYS-R0006 (Stanford University, Radiation Oncology Department, Stanford, 2000)
  18. **J. S. Li**, T. Pawlicki, J. Deng, S.B. Jiang and C.-M. Ma, "Simulation of Beam Modifiers for Monte Carlo Treatment Planing", *Proc. XIIIth ICCR* (Heidelberg, Germany) pp437-439, 2000
  19. C.-M. Ma, **J. S. Li**, T. Pawlicki, S.B. Jiang and J. Deng, "MCDOSE – A Monte Carlo dose calculation tool for radiation therapy treatment planing", *Proc. XIIIth ICCR* (Heidelberg, Germany) pp123-125, 2000
  20. J. Deng, S. B. Jiang, T. Pawlicki, **J. S. Li** and C-M Ma, "Electron beam commissioning for Monte Carlo dose calculation", *Proc. XIIIth ICCR* (Heidelberg, Germany) pp431-433, 2000
  21. S. B. Jiang, J Deng, **J. S. Li**, T. Pawlicki, A. L. Boyer and C.-M. Ma, "Modeling and commissioning of clinical photon beams for Monte Carlo treatment planning", *Proc. XIIIth ICCR* (Heidelberg, Germany) pp434-436, 2000
  22. C.-M. Ma, T. Pawlicki, M.C. Lee, S. B. Jiang, **J. S. Li**, J Deng, B. Yi., E. Mok, and A. L. Boyer, "Modulated Electron Beams for Treatment of Breast Cancer", *Proc. XIIIth ICCR* (Heidelberg, Germany) pp173-175, 2000
  23. C-M Ma, SB Jiang, T Pawlicki, **J.S. Li**, J Deng, A Kapur, G. Mora, MC Lee, E Mok, D Findaley and AL Boyer, " Monte Carlo Application in Radiation Dosimetry and Radiotherapy", *Proceedings of the eighth international Conference on Calorimetry in High Energy Physics*, Lisbon Portugal, Jun 13-19, 1999 Edited by G Barreira, B Tome, A Gomes, a Maio, MJ Varanda, (World Scientific, Singapore). Pp 681-692

### **Abstracts/Oral Presentations**

1. **JS Li**, Gains from Real-time Prostate Motion Monitoring During External Beam Radiation Therapy, The First SANTRO Symposium 2008, Beijing, August 28-30, 2008
2. L Jin, C Ma, A Eldib, J Fan, Z Chi, and **JS Li**, Dosimetric Verification of Modulated Electron Radiotherapy Delivery Using Photon Multileaf Collimator, *Med. Phys.* Volume 35, Issue 6, pp. 2968 (June 2008)
3. C Ma, **J Li**, J Fan, L Jin, A Eldib, R Price, L Wang, L Chen, and M Hossain, Developing Hardware and Software Tools for Advanced Mixed Beam Radiotherapy, *Med. Phys.* Volume 35, Issue 6, pp. 2985 (June 2008)

4. T Lin, L Wang, J Fan, **J Li**, and C Ma, Monte Carlo Dose Verification and Quality Assurance for Multi-Target SRT, *Med. Phys.* Volume 35, Issue 6, pp. 2954 (June 2008)
5. **Jinsheng Li**, 4D Localization for Prostate treatment, AAPM DVC Spring Symposium, May 16, 2008
6. Abramowitz MC, Freedman G, Jin L, Nicolaou N, Ma C, **Li J**. *Accuracy of Electron Dose Calculations for Breast Tumor Bed Boost* Presented at the 90th Annual Meeting of the American Radium Society, Laguna Niguel CA May 3-7, 2008, *Oncology*, April 2008, 4, suppl 1, pg 31.
7. Ma C-M, **Li JS**, Jin L, EIDid E, Mixed beam therapy, ASTRO 2007 Annual meeting, Los Angeles, CA, USA, Oct. 27-31
8. Ma C-M, Velchev I, Lin T, Fourkal E, **Li JS**, Fan J, Orimo S and Ogura K, Laser-proton acceleration for radiation therapy, AAPM 2007 Annual meeting, Minneapolis, Minnesota, USA, July 22-26
9. Ma C-M, **Li JS**, Deng J, Fan J, Investigation of fast Monte Carlo dose calculation for Cyberknife SRS/SRT treatment planning, AAPM 2007 Annual meeting, Minneapolis, Minnesota, USA, July 22-26
10. Velchev I., Lin T, Fourkal E, Fan J, **Li JS**, Ma C-M, beam of laser-accelerated proton: generation and characterization, AAPM 2007 Annual meeting, Minneapolis, Minnesota, USA, July 22-26
11. Jin L, Ma C-M, EIDib A, Fan J, Lin T, **Li JS**, Characteristics of electron beams collimated by an electron multileaf collimator, AAPM 2007 Annual meeting, Minneapolis, Minnesota, USA, July 22-26
12. Fan J, Paskalev K, **Li JS**, Wang L, Chen L, Prince R, Jin L, EIDib A, Ma C-M, Determination of output factors for stereotactic radiosurgery beams by Monte Carlo and measurements, AAPM 2007 Annual meeting, Minneapolis, Minnesota, USA, July 22-26
13. **JS Li**, J Fan, J Deng and C-M Ma, Monte Carlo treatment planning for a stereotactic radiotherapy system, *Proc. XVth ICCR* (Toronto, Canada) , 2007, June 4-7
14. C-M Ma, E Fourkal, I Veltchev, **JS Li**, W Luo, J Fan, T Lin and A Pollack, Development of a laser-proton radiotherapy system, *Proc. XVth ICCR* (Toronto, Canada) , 2007, June 4-7
15. **JS Li**, S Stathakis, L Jin, C Ma, A Monte Carlo –based inverse-planning system for advanced mixed beam radiation therapy, the International Congress of Medical Physics meeting, Hangzhou, China, September 3-6, 2006
16. J Fan, **J Li**, W Luo, E Fourkal, S Stathakis, T Lin, C Ma, Aperture-based beam delivery for intensity modulated proton therapy, AAPM 2006 Annual Meeting, Orlando FL, USA, July 30-Aug. 3.
17. **JS Li** and CM Ma, Advanced mixed beam therapy using MERT and IMRT, AAPM 2006 Annual Meeting, Orlando FL, USA, July 30-Aug. 3.
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