

CURRICULUM VITAE

BIOGRAPHICAL

Name: Fang Li, M.D. M.S. DABR
Home Address: 146 Rae Ave, PA 15228
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5230 Centre Ave, PA 15232
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EDUCATION and TRAINING

1984-1990	Peking University Health Science Center, Xueyuan Rd. Haidian District, Beijing, China 100083 M.D. Awarded 1990
1990-1992	Peking University Third Hospital, #49 Huayuan North Rd. Haidian District, Beijing, China, 100191; Resident Training
1992-1995	Peking Union Medical College, #9 Dongdan Santiao, Dongcheng District, Beijing, China, 100730; MS, Awarded 1995, Major in Immunology, Director: RenShe Chen
1998-2002	Weill Cornell Medical College, Dept. of Medicine 1300 York Ave, New York, NY 10065 Post-doc Research associate
2002-2004	Columbia University, 116th Street and Broadway, New York, NY 10027 MS, Awarded 2004, Major in Medical Physics, Director: Cheng-Shie Wu

APPOINTMENTS and POSITIONS

ACADEMIC:

1995-1998	Beijing Hospital, 1 Dahua Lu, Dongdan, Dongcheng District, Beijing, China 100730 Geriatric Attending, Assistant Professor
2002-2004	Columbia University, Department of Biological Sciences, 116th Street and Broadway, New York, NY 10027 Senior Researcher
2004-now	UPMC Shadyside Hospital, Dept. of Rad. Oncology 5230 Centre Ave, Pittsburgh, PA 15232 Medical Physicist

CERTIFICATION and LICENSURE

SPECIALTY CERTIFICATION:

The American Board of Radiology (ABR): 2008

MEDICAL OR OTHER PROFESSIONAL LICENSURE:

Educational Commission for Foreign Medical Graduates (ECFMG): 2012

MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES

American Association of Physicists in Medicine (AAPM): 2005-now

American Society for Radiation Oncology (ASTRO): 2005-now

PUBLICATIONS

ORIGINAL PEER REVIEWED ARTICLES

1. **Fang Li**, Noor Mail, Maria Stefania diMayorca, Travis J. McCaw, Cihat Ozhasoglu, Ronald Lalonde, Jina Chang, Mohammed Saiful Huq. Single isocenter HyperArc treatment of multiple intracranial metastases: targeting accuracy Journal of Applied Clinical Medical Physics, 2024; 25(1): e14234, <https://doi.org/10.1002/acm2.14234>
2. **Fang Li**, Jeonghoon Park, Ron Lalonde, Si Young Jang, Maria Stefania diMayorca, John C. Flickinger, Andrew Keller, Mohammed Saiful Huq. Is Halcyon feasible for single thoracic or lumbar vertebral segment SBRT? Journal of Applied Clinical Medical Physics, 2022; 23(1): e13458, <https://doi.org/10.1002/acm2.13458>
3. Darek Michalski, Marc Sontag, **Fang Li**, Regiane S. de Andrade, Irmute Uslene, Edward D. Brandner, Dwight E. Heron, Ning Yue, M. Saiful Huq. Four-Dimensional Computed Tomography–Based Interfractional Reproducibility Study of Lung Tumor Intrafractional Motion. International Journal of Radiation Oncology * Biology * Physics. 2008; 71(3), P 714-724, <https://doi.org/10.1016/j.ijrobp.2007.10.038>
4. Cheng B. Saw, Yong Yang, **Fang Li**, Ning J. Yue, Chuxiong Ding, Krishna Komanduri, Saiful Huq, and Dwight Heron. Performance Characteristics and Quality Assurance Aspects of Kilovoltage Cone-Beam CT on Medical Linear Accelerator. Medical Dosimetry, Vol. 32, No. 2, pp. 80-85, 2007
5. **Fang Li**, Dmitri A. Yarilin, Jennifer Valiando, Amy Ronco, Marc E. Weksler, Paul Szabo and David N. Posnett. Tumor antigen drives a persistent oligoclonal expansion of CD8+ T cells in aged mice. European Journal of immunology 2002; 32:1650-1658, [https://doi.org/10.1002/1521-4141\(200206\)32:6<1650::AID-IMMU1650>3.0.CO;2-Q](https://doi.org/10.1002/1521-4141(200206)32:6<1650::AID-IMMU1650>3.0.CO;2-Q)
6. **Fang Li**, Fang Jin, Antonio Freitas, Paul Szabo and Marc E. Weksler. Impaired regeneration of the peripheral B cell repertoire from bone marrow following lymphopenia in old mice. European Journal of Immunology 2001; 31: 500-505, [https://doi.org/10.1002/1521-4141\(200102\)31:2<500::AID-IMMU500>3.0.CO;2-C](https://doi.org/10.1002/1521-4141(200102)31:2<500::AID-IMMU500>3.0.CO;2-C)
7. **Fang Li**, Chen Renshe. Purification and identification of laminin. Journal of Modern Locality Science and technology 1997; Special Issue: 395-396
8. Chen Renshe, **Fang Li** and Gao Fangkun. Micro albumin in urea. Chinese Clinical Medicine 1996; 3: 11-12
9. Wang Geying, Wu wei, Bao Limin, **Fang Li**, Chen Renshe, Gao Fangkun. Correlation between various nephropathy and urinary mAlb & Ig light chain. Chinese Clinical Medicine 1996; Vol. 3: 10-1

10. **Fang Li**, Chen Renshe, Chen Jian, Wang Zaitong, Wang Yuchen. Determining serum Laminin level with direct enzyme-linked immunosorbent assay. Chinese Journal of Clinical Medicine 1996; 3: 10-11
11. Chen Renshe, Wei Jie, **Fang Li**. Distinguishment of bloody urine. Chinese Journal of Modern Medical Science 1996; 7: 508-5
12. **Fang Li**, Chen Renshe. Laminin-a multifunction glycoprotein. Chinese Clinical Medicine 1995; Vol. 2
13. Zhao Zongqun, **Fang Li**, He Wei, Ye kangping, Zhang Shuzhen. The effects of wind tunnel on cardiovascular system in workers. Chinese Journal of Preventive Medicine 1991; 25(5): 259-261

PUBLISHED ABSTRACT

1. **F Li**, Jeonghoon Park, Zhilei Shen, Ron Lalonde, John Flickinger, Dwight Heron, Saiful Huq, "Feasibility Study of a New Ring-Gantry Linac for Single Vertebral Segment SBRT", ASTRO 2019 Annual Meeting, Chicago, IL, 09/2019 International Journal of Radiation Oncology * Biology * Physics. 2019; 105(1S), P E766
2. Teo P, **Li F**, Rhoades D, Shen ZL, Jang S, Lalonde R, Heron D, Huq S, "Dosimetric Performance of a New Ring-Gantry Linear Accelerator for IMRT and VMAT Prostate Plans", 2018 ASTRO Annual Meeting, San Antonio, TX, 10/2018. (ePoster) International Journal of Radiation Oncology * Biology * Physics. 2018; 102(3), P E500
DOI:<https://doi.org/10.1016/j.ijrobp.2018.07.1421>
3. **F Li**, P Teo, ZL Shen, R Lalonde, D Clump, D Heron, M Huq, "Dosimetric Performance of a New Ring Gantry Linear Accelerator for the SBRT of Prostate Cancer", AAPM 60th Annual Meeting, Nashville, TN, 07/2018. Med. Phys. Vol 45, Issue 6 (2018)
4. Teo P, **Li F**, Fallon K, Kosterin P, Shen ZL, Jang S, Lalonde R, Bednarz G, Huq S, "Portal Dosimetry Based Patient-Specific QA of a New Ring-Gantry Linac Yielded Similar Passing Rate Compared to a Portable Ion Chamber Array Based QA", AAPM 60th Annual Meeting, Nashville, TN, 07/2018. Med. Phys. Vol 45, Issue 6 (2018)
5. T. Li, **F. Li**, D.A. Clump, D.E. Heron and M.S. Huq. Evaluation of kV Cone Beam Computed Tomography-Based Setup Errors in Stereotactic Body Radiation Therapy for Liver Cancer. International Journal of Radiation Oncology * Biology * Physics. 2016; 96(2), P e662
6. T Li, Y Yang, X Li, **F Li**, D Heron, and M Huq. Multiple Gating for Lung Stereotactic Body Radiotherapy Treatment. Med. Phys. 35 2830 (2008)
7. Y Yang, J Kim, **F Li**, X Li, T Li, N Yue, D Heron, and M Huq. An Experimental and Monte Carlo Study of Output Factors for Small Radiosurgery Beams. Med. Phys. 35 2785 (2008)
8. T Li, X Li, Y Yang, **F Li**, D Heron, and M Huq. Model-Based Deconvolution for 4D PET. Med. Phys. 35 2635 (2008)
9. Y Yang, W Fu, **F Li**, X Li, D Heron, and M Huq. Accuracy Assessment of An Optic-Guided Target Localization System for Non-Invasive Intra-Cranial SRS Using CBCT-Based 3D/3D Match. Med. Phys. 34 2641 (2007)
10. **F Li**, Y Yang, D Heron, H Chen, K Komanduri, C Saw, and M Huq. Patient Dose from Kilo-Voltage Cone Beam Computed Tomography (kV-CBCT) Imaging. Med. Phys. 34 2381 (2007)
11. N Yue, Y Yang, C Ding, **F Li**, C Saw, D Heron, and M Huq. The Influences of Detector Energy Dependence and Perturbation On the Determination of Small Field Output Factors. Med. Phys. 33 2143 (2006)
12. M Sontag, H Chen, D Michalski, R Andrade, I Usiene, **F Li**, N Yue, D Heron, and M Huq. Feasibility Study of Management of Respiration Induced Target Motion for the Radiotherapy Treatment of Lung Cancer Patients in the Absence of a 4DCT Simulator. Med. Phys. 33 2035 (2006)

13. D Michalski, M Sontag, **F Li**, R Andrade, I Uslene, E Brandner, D Heron, N Yue, and M Huq. 4DCT-Based Study of Lung Tumor Motion Reproducibility. Med. Phys. 33 2020 (2006)
14. H Kim, Z Wang, R Lalonde, M Sontag, H Chen, **F Li**, R Smith, M Huq, D Heron, and N Yue. The Use of Diode in In-Vivo Dosimetry Quality Assurance in IMRT. Med. Phys. 32 1988 (2005)
15. C Saw, K Komanduri, R Selvaraj, H Chen, **F Li**, and D Heron. Imaged-Based Simulation Technique To Determine Stepping Source Dwell Position For MammoSite(r) Brachytherapy Procedures. Med. Phys. 32 1956 (2005)

ABSTRACTS (not published in Scientific Journals)

16. N Mail, **F Li**, M diMayorca, D Clump, R Lalonde, M Huq, "Alignment Accuracy RS Patients Treated on True Beam STx: Assessment of Online and Offline 6D Couch Shifts" AAPM 64th Annual Meeting, Washington, DC, 07/2022. (ePoster)
17. N Mail, **F Li**, M diMayorca, R Lalonde, M Huq, "Does off-centering of treatment isocenter impact on CBCT image quality for Brain-Met Patients?" AAPM 64th Annual Meeting, Washington, DC, 07/2022. (ePoster)
18. Shen Z, Ramesh P, **Li F**, Lalonde R, Heron D, Huq S, "Early Clinical Experience with Halcyon Version 2 for SBRT Lung Treatments", AAPM 61st Annual Meeting, San Antonio, TX, 07/2019. (ePoster)
19. Shen ZL, Ramesh P, Teo P, Lalonde R, **Li F**, Heron D, Huq M, "A novel, automated multiple-arc stereotactic radiosurgery (SRS) technique reduces dose to the brain, optic nerves and chiasm for patients with intracranial meningioma compared to those treated with robotic-based technique", 2019 Radiosurgery Society Annual Meeting, San Diego, CA, 2/2019. (Poster)
20. Ramesh P, Shen ZL, Teo P, Lalonde R, **Li F**, Heron D, Huq M, "HyperArc SRS planning reduces the dose to brain, optic nerves and chiasm for patients with intracranial meningioma compared with CyberKnife", 2018 Penn-Ohio AAPM Fall Symposium, Triadelphia, WV, 11/2018. (Oral presentation)

PROFESSIONAL ACTIVITIES

Resident Teaching and Mentoring:

Mentoring medical residents and medical physics residents for SRS/ SBRT Planning, Hand-on demonstration / Plan reviewing for multiple disease site: Brain, Lung, Liver, Pancreas, Adrenal, Prostate, Spine, other Bone Mets

2005 Ajay Bhatnagar, MD; Chuxiong Ding, PhD

2006 Marsha Haley, MD

2007 Abhay Gokhale, MD and Simul Parikh, MD; Haisen Li, PhD

2008 Sarahgene Gillianne DeFoe, MD

2009 Regiane de Andrade, MD and Rodney E. Wegner, MD; Bo Zhao, PhD

2010 David A. Clump II, MD, PhD

2011 Peyman Kabolizadeh, MD, PhD; Yongqian Zhang, PhD

2012 Malolan Rajagopalan, MD

2013 Beant Gill, MD and John Austin Vargo, MD; Ming-Sig Hwang, PhD

2014 Mark Bernard, M.D. and Scott Glaser, M.D; Travis J McCaw, PhD

2015 Zachary Horne, MD and Brian Gebhardt, MD; Troy P Teo, PhD

2016 Ronny Kalash, DO; Pavel Kosterin, PhD

2017 Uzoma Iheagwara, MD, PhD; Jina Chang, PhD

2018 Ankur Patel, MD and Joshua Rodriguez-Lopez, MD; Naveed Islam, PhD

2019 Andrew Keller, MD and Adam Richman, MD; Maria Stefania diMayorca, MS

2020 Hima Bindu Musunuru, MD and Phillip Pifer, MD, PhD; Meysam Tavakoli, PhD

2021 Mohamed Abdelhakiem, MD and Sean Koerner, MD; Michael James Taylor, MS

2022 Baher Elgohari, MD and Ria Mulherkar, MD
2023 Diala Hamade, MD and Mohammed Mohammed, MD;
Denisa Goia, MS
2024 Jeffrey Shogan, DO,RO and Alberto Vera, MD
Denisa Goia, MS; Joe Shields, MS and Chris Tyerech, MS

RESEARCH

Non-Funded Research

1. Lung Tumor Motion Reproducibility
2. Feasibility Study of Management of Respiration Induced Target Motion for the Radiotherapy Treatment of Lung Cancer Patients in the Absence of a 4DCT Simulator
3. Evaluation of kV Cone Beam Computed Tomography–Based Setup Errors in Stereotactic Body Radiation Therapy for Liver Cancer
4. Feasibility Study of a New Ring-Gantry Linac for Single Vertebral Segment SBRT
5. Off-centering of treatment isocenter impact on CBCT image quality for Brain-Met Patients

LIST of CURRENT RESEARCH INTERESTS

1. Single isocenter HyperArc treatment of multiple intracranial metastases: targeting accuracy
2. QD vs QoD lung SBRT protocol efficacy and toxicity
3. Hypersight CBCT image quality and adapted radiotherapy

REFERENCES

1. **M. Saiful Huq**, PhD, *Professor and Director*, huqs@upmc.edu, 412-647-1813 (w)
2. **Steven Burton**, MD, *Professor*, burtos@upmc.edu, 412-623-2061 (w)
3. **Yong Yang**, PhD, *Clinical Professor*, yongy66@stanford.edu, 650-497-6507 (w)
4. **Xiang Li**, PhD, *Chief Attending Physicist*, lix3@mskcc.org, 516-559-1501 (w)