

## *Curriculum vitae*

**Name: You Zhang**

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### **Education**

Year	Degree (Honors)	Field of Study (Thesis advisor for PhDs)	Institution
2010	B.S. (Magna Cum Laude)	Physics	Nanjing University
2015	Ph.D.	Medical Physics (Lei Ren, Ph.D. & Fang-Fang Yin, Ph.D.)	Duke University

### **Postdoctoral Training**

Year	Titles	Specialty/Discipline	Institution
2015-2018	Resident	Therapeutic Physics Residency	UT Southwestern Medical Center

### **Current Licensure and Certification**

#### **Licensure**

Licensed Medical Physicist, State of Texas June 2019 to Present

#### **Board and Other Certification**

Certified in Therapeutic Medical Physics, American Board of Radiology June 2019 to Present

Certificate of Training for GammaPod Applications, Xcision Medical Systems March 2019 to Present

Certificate in College Teaching, Duke University May 2015 to Present

### **Honors and Awards**

Year	Name of Honor/Award	Awarding Organization
2023	IOP Trusted Reviewer (Top 15% reviewers of physical science)	Institute of Physics (IOP)

2023	Basic/Translational Science Abstract Award (Co-investigator)	ASTRO
2022	Best of Physics Abstract (Senior Author)	ASTRO
2022	ASTRO Travel Award (Senior Author)	ASTRO
2021	John R. Cameron Early-Career Investigator Competition Finalists (Co-investigator)	AAPM
2020	Top cited article 2020-2021 (Co-first Author)	JACMP
2019	Highlighted Article (Corresponding Author)	Medical Physics
2019	Top 10% most downloaded paper for JACMP (Co-first Author)	JACMP
2019	AAPM Summer School Scholarship	AAPM
2018-2019	Science Council Associates Mentorship Program Awardee	AAPM
2017	ABS Prostate HDR/LDR Brachytherapy Scholarship	ABS
2016	Basic/Translational Science Abstract Award (First Author)	AAPM
2016	John R. Cameron Young Investigator Competition Finalists (First Author)	AAPM
2016	Science Council Junior Investigator Competition Winner (Co-investigator)	AAPM
2016	1 <sup>st</sup> Prize for Residents	South Texas Chapter – Health Physics Society Meeting
2015	Featured Presentation (First Author)	AAPM
2014	Best of Physics Abstract (Co-investigator)	ASTRO

### **Faculty Academic Appointments**

Year(s)	Academic Title	Department/Program	Academic Institution
2023-	Associate Professor	Radiation Oncology	UT Southwestern Medical Center
2020-	Member	BME	UT Southwestern Medical Center
2018-	Assistant Professor	Radiation Oncology	UT Southwestern Medical Center

### **Appointments at Hospitals/Affiliated Institutions**

Year(s)	Position Title	Department/Division	Institution
2018-	Medical Physicist	Radiation Oncology	UT Southwestern Medical Center

### **Major Administrative/Leadership Positions**

Year(s)	Position Title	Institution
2022-	Director, BME Graduate Program Medical Physics Track	UT Southwestern Medical Center
2021-2023	Lead Physicist, GammaPod Services	UT Southwestern Medical Center

**Committee Service** (Member, unless noted otherwise)

Year(s)	Name of Committee	Institution/Organization
<b>UTSW</b>		
2023-	Medical Physics Graduate Program 2.0 Committee	Radiation Oncology
2022-	BME Steering Committee	BME Graduate Program
2022-	Graduate/Certificate Program Steering Committee	Radiation Oncology
2020-	MP Residency Program Evaluation Committee	Radiation Oncology
2020	Physics Residency Committee for Vision 2020	Radiation Oncology
2018-2019	Technology Expansion Committee	Radiation Oncology

**Professional Societies**

Dates	Society Name, member
2021-	International Society for Magnetic Resonance in Medicine (ISMRM), Member
2020	The Medical Image Computing and Computer Assisted Intervention Society (MICCAI), Member
2020-	Institute of Electrical and Electronics Engineers (IEEE), Member
2017-	American Society for Radiation Oncology (ASTRO), Member
2011-	American Association of Physicists in Medicine (AAPM), Member
	Committees
2023-	AAPM Medical Physics Graduate Education Subcommittee (MPGESC)
2023	AAPM Annual Meeting 2023, Scientific Session Moderator
2023-	AAPM Joint Working Group for Research Seed Funding Initiative, Member
2022	AAPM Summer School Workshop Coordination Committee, Chair
2021	AAPM Annual Meeting 2021, Scientific Session Moderator
2019-	AAPM Summer School Subcommittee, Member
2019-	AAPM Work Group “Ask the Expert”, Member
2019-2022	AAPM Science Council Associates Mentorship Program, Member

**Grant Review Activities**

Year(s)	Name of Review Committee	Organization
2023	Detection, Diagnosis & Prognosis (DDP) peer review panel	Department of Defense (DoD) Congressionally Directed Medical Research Programs (CDMRP)
2023	Ralph E. Powe Junior Faculty Award	Oak Ridge Associated Universities
2023	ZonMw Veni Programme	Dutch Research Council, domain Health Research and Development

2022	Detection, Diagnosis & Prognosis (DDP) peer review panel	Department of Defense (DoD) Congressionally Directed Medical Research Programs (CDMRP)
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### **Editorial Activities**

Year(s)	Journal Name
<u>Editor/Associate Editor</u>	
2018-	Medical Physics (Guest Associate Editor)
2020-	Frontiers in Oncology (Review Associate Editor)
<u>Editorial Board</u>	
2024-	Physics in Medicine and Biology
<u>Ad Hoc Reviewer</u>	
2023	Medical Image Analysis
2023	Joint MICCAI Workshop on Time-Series Data Analytics and Learning (MTSAIL) and Efficient Lesion Assessment and Follow-up (ELAF)
2023-	IEEE Transactions on Pattern Analysis and Machine Intelligence
2022-	Zeitschrift Fuer Medizinische Physik
2022-	Journal of Medical Imaging and Radiation Oncology
2022-	IET Image Processing
2020	Nuclear Science and Techniques
2020-	MICCAI Annual Conference
2019	Quantitative Imaging in Medicine and Surgery
2019-	AAPM Annual Conference
2019	Journal of Cancer Research and Clinical Oncology
2019	Practical Radiation Oncology
2018	IEEE Access
2018	Biomedical Physics & Engineering Express
2018	Cureus
2018	International Journal of Radiation Oncology Biology Physics
2017-	IEEE Transactions on Medical Imaging
2017	Optical Engineering
2017	Journal of X-ray Science and Technology
2017	Advances in Radiation Oncology
2016-	Medical Dosimetry
2016	Physica Medica
2015-	Radiotherapy & Oncology
2015-	PLOS One
2015-	Technology in Cancer Research and Treatment
2015	Journal of Clinical Trials
2015-	Journal of Applied Clinical Medical Physics

2014-	International Journal of Computer Assisted Radiology and Surgery
2014	Applied Sciences
2014-	Physics in Medicine and Biology
2013	Journal of Computational Medicine
2013-	Medical Physics

## **Grant Support**

<u>Present</u>	<i>Grantor:</i> NIH/NCI R01CA240808
	<i>Title of Project:</i> Accurate 4D Liver Tumor Localization for Radiotherapy using Contrast-Agent-Free X-ray Imaging and Liver Biomechanical Modeling
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator (Contact)
	<i>Award Period:</i> 2020-2025

<u>Present</u>	<i>Grantor:</i> NIH/NCI R01CA258987
	<i>Title of Project:</i> Artificial Intelligence-Based Quality Assurance for Online Adaptive Radiotherapy
	<i>Role (Principal Investigator, Co-Investigator):</i> Multi-Principal Investigator
	<i>Award Period:</i> 2022-2027

<u>Present</u>	<i>Grantor:</i> NIH/NCI R01CA280135
	<i>Title of Project:</i> High-Precision Proton Therapy for Liver Cancer: Developing an End-to-end Strategy with Real-time Liver Tumor Localization and On-the-fly Plan Delivery Adaptation
	<i>Role (Principal Investigator, Co-Investigator):</i> Multi-Principal Investigator (Contact)
	<i>Award Period:</i> 2024-2029

<u>Present</u>	<i>Grantor:</i> Varian Medical Systems
	<i>Title of Project:</i> Real-time liver tumor localization via a single x-ray projection using graph neural network-assisted deep biomechanical modeling (MeshBioNet)
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator (Contact)
	<i>Award Period:</i> 2023-2025

<u>Present</u>	<i>Grantor:</i> Varian Medical Systems
	<i>Title of Project:</i> Time-resolved Dynamic Cone-beam CT Imaging for Lung Patients Using Spatial and Temporal Implicit Neural Representation (STINR)
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator (Contact)
	<i>Award Period:</i> 2023-2025

<u>Past</u>	<i>Grantor:</i> NIH/NIBIB R01EB027898
	<i>Title of Project:</i> Real-time prostate lesion tracking during SBRT

	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator
	<i>Award Period:</i> 2019-2023

<u>Past</u>	<i>Grantor:</i> UT Southwestern Medical Center – Radiation Oncology
	<i>Title of Project:</i> 4D Liver Tumor Localization for Radiotherapy
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator (Contact)
	<i>Award Period:</i> 2018-2020

### **Clinical Trials Activities**

<u>Present</u>	<i>Grantor:</i> UT Southwestern Medical Center
	<i>Title of Project:</i> Evaluation of Contrast-Agent-Free Liver Tumor Imaging and Localization Using 4D Cone-Beam Computed Tomography
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator

<u>Present</u>	<i>Grantor:</i> UT Southwestern Medical Center
	<i>Title of Project:</i> A Phase I Dose Escalation Study of Single Fraction Pre-operative Partial Breast (S-PBI) for Early Stage Breast Cancer
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator

### **Teaching Activities**

Year(s)	Activity
<u>Medical and graduate school didactic and small group teaching</u>	
2023-	Director, <i>Introductory Radiation Therapy Physics Rotation</i>
2021-	Case Study Leader, <i>Responsible Conduct of Research</i>
2020-	Lecturer, <i>Radiological Physics and Dosimetry</i>
2020-2021	Lecturer, <i>VMAT-based TBI Techniques</i>
2019-	Lecturer, <i>Radiation Protection and Radiation Safety</i>
2019-2021	Lecturer, <i>Introductory Radiation Therapy Physics Rotation</i>
2019-2021	Lecturer, <i>RT 3314–Medical Dosimetry &amp; Treatment Planning I</i>
2019-2021	Lecturer, <i>RT 4315–Medical Dosimetry &amp; Treatment Planning II</i>
2019-2021	Lecturer, <i>RT 5212–Emerging Technology in Radiation Therapy (MRI)</i>
2019-2021	Lecturer, <i>RT 5401–Advanced Radiotherapy and Medical Physics</i>
<u>Committees concerned with medical and graduate student education</u>	
2023-	Medical Physics Graduate Program 2.0 Committee
2022-	BME Steering Committee
2022-	Grad/Certificate Program Steering Committee
2020-	Ph.D. Candidate Interview Committee

<u>Graduate student rotations</u>	
2023	Shunyu Yan
2023	Tianyu Wang
2022	Yunxiang Li
<u>Graduate student mentor</u>	
2022-	Yunxiang Li
Ph.D. Dissertation Committee Service	
2024-	Yan Dai (Member)
2024-	Banghao Zhou (Member)
<u>Postgraduate medical education (graduate &amp; continuing medical education)</u>	
2019-	Faculty Mentor of the UTSW Medical Physics Residency Program
<u>Postdoctoral trainees</u>	
2020-	Hua-Chieh Shao
2022	Tielige Mengke Position after training: Samsung Semiconductor
2023-	Xiaoxue Qian
2024-	Yang Li
<u>Student Interns/Trainees</u>	
2023-	Jiacheng Xie
2023-	Taejoon Park
2023	Kaden Vasquez (AAPM Summer Undergraduate Fellowship Program)
2022-2023	Raghav Ramki (UTSW STARs Program) Position after training: college student at Stanford University
2021-	Shiau Ho
2021	Shree Allada (UTSW STARs Program) Position after training: college student at Emory University

### **Invited Lectures**

Year(s)	Title	Location
<u>International</u>		
2023	Pre- and Post-Operative Breast SBRT Using New Modalities	Shenzhen, China (Virtual)
2022	Pre- and Post-Op Breast SBRT Using Gamma Pod	Washington DC
2022	Artificial Intelligence-Assisted Medical Imaging for Image-Guided Radiation Therapy	Harbin, China (Virtual)
2014	3D/4D imaging verification using digital tomosynthesis (DTS)	Hong Kong, China
<u>National</u>		
2022	AI-assisted 4D and Real-time Imaging for Radiotherapy Treatment Planning and Delivery	Houston, TX

2022	Pre- and Post-Op Breast SBRT Using New Modalities	AAMD (Virtual)
2021	Enabling Accurate On-board Imaging for Radiotherapy Using Advanced Reconstruction and Machine Learning Techniques	Buffalo, NY (Virtual)
2017	Enhancing image-guided radiation therapy through deformation-driven CBCT estimation techniques	Atlanta, GA
2017	Enhancing image-guided radiation therapy through deformation-driven CBCT estimation techniques	Brunswick, NJ
<b><u>Regional/Local</u></b>		
2023	AI-Driven Dynamic and Real-Time Imaging for Adaptive Radiotherapy	MD Anderson Cancer Center
2023	Barriers to clinical implementation/translation of AI	UT Southwestern Medical Center
2022	AI-Assisted Fast Volumetric Imaging and Target Localization for Image-Guided Radiation Therapy	UT Southwestern Medical Center: ROAR seminar series
2022	Artificial Intelligence-Assisted Medical Imaging for Image-Guided Radiation Therapy	United Imaging, Houston
2022	Artificial Intelligence-Assisted Medical Imaging for Image-Guided Radiation Therapy	University of Texas at Arlington
2022	Towards intra-treatment, real-time (time-resolved) volumetric MRI: current developments and challenges	UT Southwestern Medical Center

**Service to the Community**

Year(s)	Role	Organization or institution
<b>External</b>		
2020-	Reviewer, AAPM summer school topic proposals	AAPM
2019	Reviewer, AAPM SCAMP candidates	AAPM
<b>Internal</b>		
2022-	Interviewer, medical physics faculty candidates	UT Southwestern Medical Center
2020-	Interviewer, medical physics Ph.D. program candidates	UT Southwestern Medical Center
2020	Interviewer, radiation oncology engineer candidates	UT Southwestern Medical Center
2020	Interviewer, medical physics assistant candidates	UT Southwestern Medical Center



2016-2019	Interviewer, medical physics resident candidates	UT Southwestern Medical Center
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## Bibliography

### Peer-Reviewed Publications

#### Original Research Articles (\*as corresponding author)

1.	H. Shao, T. Mengke, J. Deng, <b>Y. Zhang*</b> , “ 3D cine-magnetic resonance imaging using spatial and temporal implicit neural representation learning (STINR-MR)”, <i>Physics in Medicine and Biology</i> , accepted.
2.	Y. Li, H. Shao, X. Liang, L. Chen, R. Li, S. Jiang, J. Wang, <b>Y. Zhang*</b> , “ Zero-shot Medical Image Translation via Frequency-Guided Diffusion Models”, <i>IEEE Transactions on Medical Imaging</i> , 43(3), 980-993 (2024).
3.	Z. Li, Y. Li, Q. Li, P. Wang, D. Guo, L. Lu, D. Jin, <b>Y. Zhang</b> , Q. Hong, “ LViT: Language meets Vision Transformer in Medical Image Segmentation”, <i>IEEE Transactions on Medical Imaging</i> , 43(1), 96-107 (2024).
4.	H. Shao, Y. Li, J. Wang, S. Jiang, <b>Y. Zhang*</b> , “ Real-time Liver Motion Estimation via Deep Learning-based Angle-agnostic X-ray Imaging”, <i>Medical Physics</i> , 50(11), 6649-6662 (2023).
5.	Y. Li, Z. Li, K. Zhang, R. Dan, S. Jiang, <b>Y. Zhang*</b> , “ ChatDoctor: A Medical Chat Model Fine-Tuned on a Large Language Model Meta-AI (LLaMA) Using Medical Domain Knowledge”, <i>Cureus</i> , 15(6) (2023).
6.	<b>Y. Zhang*</b> , H. Shao, T. Pan, T. Mengke, “ Dynamic Cone-beam CT Reconstruction using Spatial and Temporal Implicit Neural Representation Learning (STINR)”, <i>Physics in Medicine and Biology</i> , 68(4), p.045005 (2023).
7.	H. Shao, Y. Li, J. Wang, S. Jiang, <b>Y. Zhang*</b> , “ Real-time Liver Tumor Localization via combined Surface Imaging and A Single X-ray Projection”, <i>Physics in Medicine and Biology</i> , 68(6), p.065002 (2023).
8.	H. Shao, T. Li, M. Dohopolski, J. Wang, J. Cai, J. Tan, K. Wang, <b>Y. Zhang*</b> , "Real-Time MRI Motion Estimation through an Unsupervised K-Space-Driven Deformable Registration Network (KS-RegNet) ", <i>Physics in Medicine &amp; Biology</i> , 67(13), p.135012 (2022)
9.	H. Shao, J. Wang, T. Bai, J. Chun, C. Park, S. Jiang, <b>Y. Zhang*</b> , "Real-time Liver Tumor Localization via a Single X-ray Projection Using Deep Graph Neural Network-assisted Biomechanical Modeling", <i>Physics in Medicine and Biology</i> , 67(11), p.115009 (2022).
10.	E. Zhang-Velten, <b>Y. Zhang</b> , et. al., "A How-To Compendium for GammaPod Treatments, Clinical Workflow, and Clinical Program at an Early Adapting Institution", <i>Practical Radiation Oncology</i> , 12(3), pp.e177-e182 (2022).
11.	T. Peng, C. Wang, <b>Y. Zhang</b> , J. Wang, "H-SegNet: Hybrid Segmentation Network for lung segmentation in Chest Radiographs using Mask Region-based Convolutional Neural Network and Adaptive Closed Polyline Searching Method", <i>Physics in Medicine and Biology</i> , 67(7), p.075006 (2022).
12.	Z. Xiong, Y. Zhong, T. Chiu, J. Tan, <b>Y. Zhang</b> , D. Parsons, T. Banks, R. Reynolds, Y. Yan, A. Godley, S. Stojadinovic, “ Machine characterization and central axis depth dose data of a superficial radiotherapy unit”, <i>Biomedical Physics &amp; Engineering Express</i> , 9(1): 015005 (2022).
13.	H. Shao, X. Huang, M. Folkert, J. Wang, <b>Y. Zhang*</b> , "Automatic Liver Tumor Localization Using a Combined Deep Learning and Biomechanical Model (DL-Bio) ", <i>Medical Physics</i> 48(6), 7790-7805 (2021).

14.	<b>Y. Zhang*</b> , "An Unsupervised 2D-3D Deformable Registration Network (2D3D-RegNet) for Cone-Beam CT Estimation", <i>Physics in Medicine &amp; Biology</i> , 66(7): 074001 (2021).
15.	J. Chun, J. Park, S. Olberg, <b>Y. Zhang</b> , D. Nguyen, J. Wang, J. Kim, S. Jiang, "Intentional Deep Overfit Learning (IDOL): A Novel Deep Learning Strategy for Adaptive Radiation Therapy", <i>Medical Physics</i> 49(1), 488-496 (2021).
16.	E. Zhang, D. Parsons, et al., <b>Y. Zhang</b> , et al., K. Kumar, X. Gu, "Volumetric Modulated Arc Therapy Enabled Total Body Irradiation (VMAT-TBI): Six-year Clinical Experience and Treatment Outcomes", <i>Transplantation and Cellular Therapy</i> 28(2), 133-e1 (2021).
17.	S. Niu, S. Lu, <b>Y. Zhang</b> , X. Huang, Y. Zhong, G. Yu, J. Wang, "Statistical image-based material decomposition for triple-energy Computed Tomography using total variation regularization", <i>Journal of X-Ray Science and Technology</i> 28(4), 751-771 (2020).
18.	Y. Xing, <b>Y. Zhang*</b> (co-first author), D. Nguyen, M. Lin, W. Lu, S. Jiang, "Boosting radiotherapy dose calculation accuracy with deep learning", <i>Journal of Applied Clinical Medical Physics</i> 21:8, 149-159 (2020).
19.	D. Parsons, <b>Y. Zhang</b> , X. Gu, W. Lu, "POD-DOSI: A Dedicated Dosimetry System for GammaPod Commissioning and Quality Assurance", <i>Medical Physics</i> 47(8), 3647-3657 (2020).
20.	X. Huang, <b>Y. Zhang*</b> , L. Chen, J. Wang, "U-net-based Deformation Vector Field Estimation for Motion-Compensated 4D-CBCT Reconstruction", <i>Medical Physics</i> 47(7), 3000-3012 (2020).
21.	<b>Y. Zhang*</b> , M. Folkert, B. Li, X. Huang, J. Meyer, T. Chiu, P. Lee, J. Tehrani, J. Cai, D. Parsons, X. Jia and J. Wang, "4D Liver Tumor Localization using Cone-Beam Projections and a Biomechanical Model", <i>Radiotherapy &amp; Oncology</i> 133, 183-192 (2019).
22.	<b>Y. Zhang*</b> , M. R. Folkert, X. Huang, J. Meyer, J. N. Tehrani, L. Ren, J. Wang, "Enhancing Liver Tumor Localization Accuracy by Prior-Knowledge-Guided Motion Modeling and a Biomechanical Model", <i>Quantitative Imaging in Medicine and Surgery</i> 9(7), 1337-1349 (2019).
23.	<b>Y. Zhang*</b> , A. H. Le (co-first author), Z. Tian, T. Chiu, X. Gu, A. Pugachev, R. Reynolds, Y. Park, M.H. Lin, S. Stojadinovic, "Modeling Elekta VersaHD using the Varian Eclipse treatment planning system for photon beams: a single-institution experience", <i>Journal of Applied Clinical Medical Physics</i> 20:10, 33-42 (2019).
24.	<b>Y. Zhang*</b> , T. Chiu, J. Dubas, Z. Tian, P. Lee, X. Gu, Y. Yan, D. Sher, R. Timmerman, B. Zhao, "Benchmarking Techniques for Stereotactic Body Radiotherapy for Early-Stage Glottic Laryngeal Cancer: LINAC-Based Non-Coplanar VMAT vs. Cyberknife Planning", <i>Radiation Oncology</i> , 14:193 (2019).
25.	<b>Y. Zhang*</b> , X. Huang, J. Wang, "Advanced 4D-CBCT reconstruction by combining motion estimation, motion-compensated reconstruction, biomechanical modeling and deep learning", <i>Visual Computing for Industry, Biomedicine, and Art</i> 2, 23 (2019).
26.	Y. Chen, F. F. Yin, Y. Zhang, <b>Y. Zhang</b> , L. Ren, "Low dose cone-beam computed tomography reconstruction via hybrid prior contour based total variation regularization (hybrid-PCTV)", <i>Quantitative Imaging in Medicine and Surgery</i> 9(7), 1214-1228 (2019).
27.	X. Li, J. Wu, M. Palta, <b>Y. Zhang</b> , Y. Sheng, J. Zhang, C. Wang, "A Collimator Setting Optimization Algorithm for Dual-arc Volumetric Modulated Arc Therapy in Pancreas Stereotactic Body Radiation Therapy", <i>Technology in Cancer Research and Treatment</i> , 1533033819870767 (2019).
28.	D. Shrestha, M. Tsai, N. Qin, <b>Y. Zhang</b> , X. Jia, and J. Wang, "Dosimetric Evaluation of 4D-CBCT Reconstructed by Simultaneous Motion Estimation and Image Reconstruction (SMEIR) for Carbon Ion Therapy of Lung Cancer", <i>Medical Physics</i> 46 (2019).
29.	Y. Chi, C. Shen, B. Li, <b>Y. Zhang</b> , M. Yang, M. Folkert, X. Jia, "A method to reconstruct intra-fractional liver motion in rotational radiotherapy using linear fiducial markers", <i>Physics in Medicine and Biology</i> 64, 225013 (2019).
30.	S. Niu, <b>Y. Zhang</b> , Y. Zhong, G. Yu, J. Ma and J. Wang, "Iterative reconstruction for photon-counting CT using prior image constrained total generalized variation", <i>Computers in Biology and Medicine</i> 103, 167-182 (2018).

31.	X. Huang, <b>Y. Zhang*</b> (co-first author), J. Wang, "A biomechanical modeling-guided simultaneous motion estimation and image reconstruction technique (SMEIR-Bio) for 4D-CBCT reconstruction", <i>Physics in Medicine and Biology</i> 63, 045002 (2018).
32.	Shrestha, N. Qin, <b>Y. Zhang</b> , F. Kalantari, S. Niu, X. Jia, A. Pompos, S. Jiang and J. Wang, "Iterative reconstruction with boundary detection for carbon ion computed tomography", <i>Physics in Medicine and Biology</i> 63, 055002 (2018).
33.	Y. Chen, F.F. Yin, Y. Zhang, <b>Y. Zhang</b> , L. Ren, "Low dose CBCT reconstruction via prior contour based total variation (PCTV) regularization: a feasibility study", <i>Physics in Medicine and Biology</i> 63, 085014 (2018).
34.	Y. Zhong, F.K. Mahmoudabadi, <b>Y. Zhang</b> , Y. Shao, J. Wang, "Quantitative 4D-PET reconstruction for small animal using SMEIR-reconstructed 4D-CBCT", <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> 2(4), 2018.
35.	C. Zhao, Y. Zhong, X. Duan, <b>Y. Zhang</b> , X. Huang, J. Wang, M. Jin, "4D cone-beam computed tomography (CBCT) using a moving blocker for simultaneous radiation dose reduction and scatter correction", <i>Physics in Medicine and Biology</i> 63, 115007 (2018).
36.	W. Harris, F.F. Yin, C. Wang, <b>Y. Zhang</b> , J. Cai, L. Ren, "Accelerating volumetric cine MRI (VC-MRI) using undersampling for real-time 3D target localization/tracking in radiation therapy: a feasibility study", <i>Physics in Medicine and Biology</i> 63, 01NT01 (2018).
37.	<b>Y. Zhang*</b> , J.N. Tehrani, J. Wang, "A biomechanical modeling guided CBCT estimation technique", <i>IEEE Transactions on Medical Imaging</i> 36, 641-652 (2017).
38.	<b>Y. Zhang*</b> , J. Ma, P. Iyengar, Y. Zhong, J. Wang, "A new CT reconstruction technique using adaptive deformation recovery and intensity correction (ADRIC)", <i>Medical Physics</i> 44 (2017).
39.	<b>Y. Zhang*</b> , L. Ren, I. Vergalasova, F.F. Yin, "Clinical study of orthogonal-view phase-matched digital tomosynthesis for lung tumor localization", <i>Technology in Cancer Research and Treatment</i> , 1533034617705716 (2017).
40.	W. Harris, <b>Y. Zhang</b> , F.F. Yin, L. Ren, "Estimating 4D-CBCT from prior information and extremely limited angle projections using structural PCA and weighted free-form deformation for lung radiotherapy", <i>Medical Physics</i> 44 (2017).
41.	L. Ouyang, M. Folkerts, <b>Y. Zhang</b> , B. Hrycushko, R. Lamphier, P. Lee, E. Chambers, E. Ramirez, R. Reynolds, Y. Yan, S. Jiang, R. Timmerman, N. Desai, R. Abdulrahman and X. Gu, "Volumetric modulated arc therapy based total body irradiation: workflow and clinical experience with an indexed rotational immobilization system", <i>Physics and Imaging in Radiation Oncology</i> 4, 22-25 (2017).
42.	Y. Zhang, F.F. Yin, <b>Y. Zhang</b> , L. Ren, "Reducing scan angle using adaptive prior knowledge for a limited-angle intrafraction verification (LIVE) system for conformal arc radiotherapy", <i>Physics in Medicine and Biology</i> 62, 3859-3882 (2017).
43.	R. Mao, L. Tian, <b>Y. Zhang</b> , L. Ren, R. Gao, F.F. Yin and H. Ge, "Dosimetric analysis of microscopic disease in SBRT for lung cancers", <i>Technology in Cancer Research and Treatment</i> , 1533034617734689 (2017).
44.	L. Zhang, Y. Zhang, <b>Y. Zhang</b> , W. Harris, F.F. Yin, J. Cai and L. Ren, "Markerless 4D-CBCT projection phase sorting using prior knowledge and patient motion modeling: a feasibility study", <i>Cancer Translational Medicine</i> 3, 185-193 (2017).
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