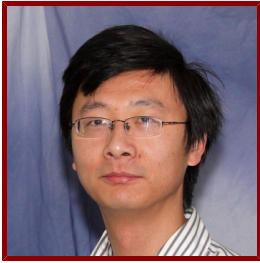


Stanford



Ruijiang Li

Assistant Professor (Research) of Radiation Oncology (Radiation Physics)
Radiation Oncology - Radiation Physics

CONTACT INFORMATION

- **Alternate Contact**

Carrie Zhang - Assistant Clinical Research Coordinator

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Bio

ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Radiation Oncology - Radiation Physics
- Member, Bio-X
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Graduate Alumni Fellowship, University of Florida (2004-2008)
- Resident Poster Recognition Award, ASTRO (2009)
- Resident Clinical/Basic Science Research Award, ASTRO (2010)
- Annual Meeting Science Council Research Award, AAPM (2010, 2014)
- Annual Meeting Scientific Abstract Award, ASTRO (2011)
- Pathway to Independence Award (K99/R00), NIH/NCI (2012)
- Resident Clinical/Basic Science Research Award (senior author), ASTRO (2014)
- Basic/Translational Science Abstract Award (senior author), ASTRO (2015)

PROFESSIONAL EDUCATION

- Board Certification, American Board of Radiology , Therapeutic Medical Physics (2013)
- Ph.D., University of Florida , Electrical and Computer Engineering (2008)
- B.Sc., Zhejiang University , Electrical Engineering (2004)

LINKS

- My Lab Website: <http://med.stanford.edu/lilab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My lab's research is focused on the development of imaging and molecular biomarkers to improve early detection, diagnosis, prognostication, and prediction of therapy response in cancer. Our ultimate goal is to translate these biomarkers into clinical practice to guide optimal management and therapeutic decisions for precision cancer medicine.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Yuming Jiang, Cheng Jin, Arian Lundberg, Thaidy Moreno Rodriguez

Postdoctoral Research Mentor

Yuming Jiang, Cheng Jin, Arian Lundberg, Thaidy Moreno Rodriguez

Publications

PUBLICATIONS

- **Development and Validation of a Deep Learning CT Signature to Predict Survival and Chemotherapy Benefit in Gastric Cancer: A Multicenter, Retrospective Study.** *Annals of surgery*
Jiang, Y., Jin, C., Yu, H., Wu, J., Chen, C., Yuan, Q., Huang, W., Hu, Y., Xu, Y., Zhou, Z., Fisher, G. A., Li, G., Li, et al
2020
- **The immune subtypes and landscape of squamous cell carcinoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Li, B., Cui, Y., Nambiar, D. K., Sunwoo, J. B., Li, R.
2019
- **Integrating Radiosensitivity and Immune Gene Signatures for Predicting Benefit of Radiotherapy in Breast Cancer.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Cui, Y., Li, B., Pollom, E. L., Horst, K., Li, R.
2018
- **Intratumoral Spatial Heterogeneity at Perfusion MR Imaging Predicts Recurrence-free Survival in Locally Advanced Breast Cancer Treated with Neoadjuvant Chemotherapy.** *Radiology*
Wu, J., Cao, G., Sun, X., Lee, J., Rubin, D. L., Napel, S., Kurian, A. W., Daniel, B. L., Li, R.
2018: 172462
- **Unsupervised clustering of quantitative image phenotypes reveals breast cancer subtypes with distinct prognoses and molecular pathways.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Wu, J., Cui, Y., Sun, X., Cao, G., Li, B., Ikeda, D. M., Kurian, A. W., Li, R.
2017
- **Heterogeneous Enhancement Patterns of Tumor-adjacent Parenchyma at MR Imaging Are Associated with Dysregulated Signaling Pathways and Poor Survival in Breast Cancer.** *Radiology*
Wu, J., Li, B., Sun, X., Cao, G., Rubin, D. L., Napel, S., Ikeda, D. M., Kurian, A. W., Li, R.
2017: 162823
- **Development and Validation of an Individualized Immune Prognostic Signature in Early-Stage Nonsquamous Non-Small Cell Lung Cancer.** *JAMA oncology*
Li, B., Cui, Y., Diehn, M., Li, R.
2017

- **Early-Stage Non-Small Cell Lung Cancer: Quantitative Imaging Characteristics of (18)F Fluorodeoxyglucose PET/CT Allow Prediction of Distant Metastasis.** *Radiology*
Wu, J., Aguilera, T., Shultz, D., Gudur, M., Rubin, D. L., Loo, B. W., Diehn, M., Li, R.
2016; 281 (1): 270-278
- **Prognostic Imaging Biomarkers in Glioblastoma: Development and Independent Validation on the Basis of Multiregion and Quantitative Analysis of MR Images** *RADIOLOGY*
Cui, Y., Tha, K. K., Terasaka, S., Yamaguchi, S., Wang, J., Kudo, K., Xing, L., Shirato, H., Li, R.
2016; 278 (2): 546-553
- **A unifying probabilistic Bayesian approach to derive electron density from MRI for radiation therapy treatment planning.** *Physics in medicine and biology*
Gudur, M. S., Hara, W., Le, Q., Wang, L., Xing, L., Li, R.
2014; 59 (21): 6595-6606
- **Integrating Imaging, Histologic, and Genetic Features to Predict Tumor Mutation Burden of Non-Small-Cell Lung Cancer.** *Clinical lung cancer*
Zhang, N., Wu, J., Yu, J., Zhu, H., Yang, M., Li, R.
2019
- **Predicting metastasis in clinically negative axillary lymph nodes with minimum apparent diffusion coefficient value in luminal A-like breast cancer** *BREAST CANCER*
Kato, F., Kudo, K., Yamashita, H., Baba, M., Shimizu, A., Oyama-Manabe, N., Kinoshita, R., Li, R., Shirato, H.
2019; 26 (5): 628-36
- **Tumor Subregion Evolution-based Imaging Features to Assess Early Response and Predict Prognosis in Oropharyngeal Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Wu, J., Gensheimer, M., Zhang, N., Guo, M., Liang, R., Zhang, C., Fischbein, N., Pollom, E., Beadle, B., Le, Q., Li, R.
2019
- **Predicting metastasis in clinically negative axillary lymph nodes with minimum apparent diffusion coefficient value in luminal A-like breast cancer.** *Breast cancer (Tokyo, Japan)*
Kato, F., Kudo, K., Yamashita, H., Baba, M., Shimizu, A., Oyama-Manabe, N., Kinoshita, R., Li, R., Shirato, H.
2019
- **Integrating tumor and nodal imaging characteristics at baseline and mid-treatment CT scans to predict distant metastasis in oropharyngeal cancer treated with concurrent chemoradiotherapy.** *International journal of radiation oncology, biology, physics*
Wu, J., Gensheimer, M. F., Zhang, N., Han, F., Liang, R., Qian, Y., Zhang, C., Fischbein, N., Pollom, E. L., Beadle, B., Le, Q., Li, R.
2019
- **The utility of MRI histogram and texture analysis for the prediction of histological diagnosis in head and neck malignancies.** *Cancer imaging : the official publication of the International Cancer Imaging Society*
Fujima, N., Homma, A., Harada, T., Shimizu, Y., Tha, K. K., Kano, S., Mizumachi, T., Li, R., Kudo, K., Shirato, H.
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- **Tensor framelet based iterative image reconstruction algorithm for low-dose multislice helical CT.** *PloS one*
Nam, H., Guo, M., Yu, H., Lee, K., Li, R., Han, B., Xing, L., Lee, R., Gao, H.
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- **Integrating quantitative morphological and intratumoural textural characteristics in FDG-PET for the prediction of prognosis in pharynx squamous cell carcinoma patients** *CLINICAL RADIOLOGY*
Fujima, N., Hirata, K., Shiga, T., Li, R., Yasuda, K., Onimaru, R., Tsuchiya, K., Kano, S., Mizumachi, T., Homma, A., Kudo, K., Shirato, H.
2018; 73 (12): 1059.e1-1059.e8
- **Magnetic resonance imaging and molecular features associated with tumor-infiltrating lymphocytes in breast cancer.** *Breast cancer research : BCR*
Wu, J., Li, X., Teng, X., Rubin, D. L., Napel, S., Daniel, B. L., Li, R.
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- **Radiomics and radiogenomics for precision radiotherapy** *JOURNAL OF RADIATION RESEARCH*
Wu, J., Tha, K., Xing, L., Li, R.
2018; 59: 125-131

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Lee, J., Li, B., Cui, Y., Sun, X., Wu, J., Zhu, H., Yu, J., Gensheimer, M. F., Loo, B. W., Diehn, M., Li, R.
2018
- **Imaging CF3I conical intersection and photodissociation dynamics with ultrafast electron diffraction** *Science*
Yang, J., Zhu, X., Wolf, T. J., Li, Z., Nunes, J. F., Coffee, R., Cryan, J. P., Gühr, M., Hegazy, K., Heinz, T. F., Jobe, K., Li, R., Shen, et al
2018; 361 (6397): 64-67
- **Automatic Estimation of Volumetric Breast Density Using Artificial Neural Network-Based Calibration of Full-Field Digital Mammography: Feasibility on Japanese Women With and Without Breast Cancer** *JOURNAL OF DIGITAL IMAGING*
Wang, J., Kato, F., Yamashita, H., Baba, M., Cui, Y., Li, R., Oyama-Manabe, N., Shirato, H.
2017; 30 (2): 215-227
- **Robust Estimation of Electron Density From Anatomic Magnetic Resonance Imaging of the Brain Using a Unifying Multi-Atlas Approach.** *International journal of radiation oncology, biology, physics*
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Zuo, Y., Cui, Y., Yu, G., Li, R., Resson, H. W.
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- **Prognostic value and molecular correlates of a CT image-based quantitative pleural contact index in early stage NSCLC.** *European radiology*
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- **Intratumor partitioning and texture analysis of dynamic contrast-enhanced (DCE)-MRI identifies relevant tumor subregions to predict pathological response of breast cancer to neoadjuvant chemotherapy.** *Journal of magnetic resonance imaging : JMRI*
Wu, J., Gong, G., Cui, Y., Li, R.
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- **Automatic multiorgan segmentation in CT images of the male pelvis using region-specific hierarchical appearance cluster models** *MEDICAL PHYSICS*
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- **Prognostic value of midtreatment FDG-PET in oropharyngeal cancer.** *Head & neck*
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- **Quantitative Analysis of (18)F-Fluorodeoxyglucose Positron Emission Tomography Identifies Novel Prognostic Imaging Biomarkers in Locally Advanced Pancreatic Cancer Patients Treated With Stereotactic Body Radiation Therapy.** *International journal of radiation oncology, biology, physics*

- Cui, Y., Song, J., Pollom, E., Alagappan, M., Shirato, H., Chang, D. T., Koong, A. C., Li, R.
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- **INDEED: Integrated differential expression and differential network analysis of omic data for biomarker discovery.** *Methods (San Diego, Calif.)*
Zuo, Y., Cui, Y., Di Poto, C., Varghese, R. S., Yu, G., Li, R., Ransom, H. W.
2016
 - **Robust Intratumor Partitioning to Identify High-Risk Subregions in Lung Cancer: A Pilot Study.** *International journal of radiation oncology, biology, physics*
Wu, J., Gensheimer, M. F., Dong, X., Rubin, D. L., Napel, S., Diehn, M., Loo, B. W., Li, R.
2016; 95 (5): 1504-1512
 - **3D fluoroscopic image estimation using patient-specific 4DCBCT-based motion models** *PHYSICS IN MEDICINE AND BIOLOGY*
Dhou, S., Hurwitz, M., Mishra, P., Cai, W., Rottmann, J., Li, R., Williams, C., Wagar, M., Berbeco, R., Ionascu, D., Lewis, J. H.
2015; 60 (9): 3807-3824
 - **Beam's-eye-view dosimetrics (BEVD) guided rotational station parameter optimized radiation therapy (SPORT) planning based on reweighted total-variation minimization** *PHYSICS IN MEDICINE AND BIOLOGY*
Kim, H., Li, R., Lee, R., Xing, L.
2015; 60 (5): N71-N82
 - **Optimization approaches to volumetric modulated arc therapy planning** *MEDICAL PHYSICS*
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 - **Simultaneous beam sampling and aperture shape optimization for SPORT.** *Medical physics*
Zarepisheh, M., Li, R., Ye, Y., Xing, L.
2015; 42 (2): 1012-?
 - **Identifying Triple-Negative Breast Cancer Using Background Parenchymal Enhancement Heterogeneity on Dynamic Contrast-Enhanced MRI: A Pilot Radiomics Study.** *PloS one*
Wang, J., Kato, F., Oyama-Manabe, N., Li, R., Cui, Y., Tha, K. K., Yamashita, H., Kudo, K., Shirato, H.
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 - **Accuracy of surface registration compared to conventional volumetric registration in patient positioning for head-and-neck radiotherapy: A simulation study using patient data** *MEDICAL PHYSICS*
Kim, Y., Li, R., Na, Y. H., Lee, R., Xing, L.
2014; 41 (12)
 - **An initial study on the estimation of time-varying volumetric treatment images and 3D tumor localization from single MV cine EPID images** *MEDICAL PHYSICS*
Mishra, P., Li, R., Mak, R. H., Rottmann, J., Bryant, J. H., Williams, C. L., Berbeco, R. I., Lewis, J. H.
2014; 41 (8): 171-178
 - **A Fourier-based compressed sensing technique for accelerated CT image reconstruction using first-order methods** *PHYSICS IN MEDICINE AND BIOLOGY*
Choi, K., Li, R., Nam, H., Xing, L.
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 - **Assessing the dosimetric impact of real-time prostate motion during volumetric modulated arc therapy.** *International journal of radiation oncology, biology, physics*
Azcona, J. D., Xing, L., Chen, X., Bush, K., Li, R.
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 - **Nonisocentric treatment strategy for breast radiation therapy: a proof of concept study.** *International journal of radiation oncology, biology, physics*
Li, R., Xing, L., Horst, K. C., Bush, K.
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 - **Nonisocentric treatment strategy for breast radiation therapy: a proof of concept study.** *International journal of radiation oncology, biology, physics*
Li, R., Xing, L., Horst, K. C., Bush, K.
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- **Clinical implementation of intrafraction cone beam computed tomography imaging during lung tumor stereotactic ablative radiation therapy.** *International journal of radiation oncology, biology, physics*
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- **Cone beam CT imaging with limited angle of projections and prior knowledge for volumetric verification of non-coplanar beam radiation therapy: a proof of concept study.** *Physics in medicine and biology*
Meng, B., Xing, L., Han, B., Koong, A., Chang, D., Cheng, J., Li, R.
2013; 58 (21): 7777-7789
- **Automatic prostate tracking and motion assessment in volumetric modulated arc therapy with an electronic portal imaging device.** *International journal of radiation oncology, biology, physics*
Azcona, J. D., Li, R., Mok, E., Hancock, S., Xing, L.
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- **Improving IMRT delivery efficiency with reweighted L1-minimization for inverse planning** *MEDICAL PHYSICS*
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- **An adaptive planning strategy for station parameter optimized radiation therapy (SPORT): Segmentally boosted VMAT.** *Medical physics*
Li, R., Xing, L.
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- **First study of on-treatment volumetric imaging during respiratory gated VMAT.** *Medical physics*
Choi, K., Xing, L., Koong, A., Li, R.
2013; 40 (4): 040701-?
- **Development and clinical evaluation of automatic fiducial detection for tumor tracking in cine megavoltage images during volumetric modulated arc therapy** *MEDICAL PHYSICS*
Azcona, J. D., Li, R., Mok, E., Hancock, S., Xing, L.
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- **Evaluation of 3D fluoroscopic image generation from a single planar treatment image on patient data with a modified XCAT phantom** *PHYSICS IN MEDICINE AND BIOLOGY*
Mishra, P., Li, R., St James, S., Mak, R. H., Williams, C. L., Yue, Y., Berbeco, R. I., Lewis, J. H.
2013; 58 (4): 841-858
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- **4D cone beam CT via spatiotemporal tensor framelet** *MEDICAL PHYSICS*
Gao, H., Li, R., Lin, Y., Xing, L.
2012; 39 (11): 6943-6946
- **Real-time tumor motion estimation using respiratory surrogate via memory-based learning** *PHYSICS IN MEDICINE AND BIOLOGY*
Li, R., Lewis, J. H., Berbeco, R. I., Xing, L.
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- **Intrafraction Verification of Gated RapidArc by Using Beam-Level Kilovoltage X-Ray Images** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Li, R., Mok, E., Chang, D. T., Daly, M., Loo, B. W., Diehn, M., Quynh-Thu Le, Q. T., Koong, A., Xing, L.
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- **Efficient IMRT inverse planning with a new L1-solver: template for first-order conic solver** *PHYSICS IN MEDICINE AND BIOLOGY*
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- **Dose optimization with first-order total-variation minimization for dense angularly sampled and sparse intensity modulated radiation therapy (DASSIM-RT)** *MEDICAL PHYSICS*

- Kim, H., Li, R., Lee, R., Goldstein, T., Boyd, S., Candes, E., Xing, L.
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 - **Improved compressed sensing-based cone-beam CT reconstruction using adaptive prior image constraints** *PHYSICS IN MEDICINE AND BIOLOGY*
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 - **Bridging the gap between IMRT and VMAT: Dense angularly sampled and sparse intensity modulated radiation therapy** *MEDICAL PHYSICS*
Li, R., Xing, L.
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 - **A Bayesian approach to real-time 3D tumor localization via monoscopic x-ray imaging during treatment delivery** *MEDICAL PHYSICS*
Li, R., Fahimian, B. P., Xing, L.
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 - **GPU-based fast low-dose cone beam CT reconstruction via total variation** *JOURNAL OF X-RAY SCIENCE AND TECHNOLOGY*
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Li, R., Jia, X., Lewis, J. H., Gu, X., Folkerts, M., Men, C., Jiang, S. B.
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