

## Personal Information

Full Name:	WU Wangjiang	Gender:	Male
Born:	March 1993	Birth Place:	Linfen, Shanxi
Phone:	86-17888810958	Email:	1014910755@qq.com
Address:	Southern Medical University, Guangzhou, China		



## Education Experience

### *Southern Medical University*

- Ph.D. in Biomedical Engineering. Guangzhou, China
- Dissertation: “Cold-cathode Flat-panel X-ray Source based phase contrast imaging” Sep. 2021– Dec. 2025

### *Capital Medical University*

- M.S., Biomedical Engineering. Beijing, China
- Dissertation: “CT Image Quality Assessment Based on Volumetric Data” Sep. 2016 – July 2019

### *Capital Medical University*

- B.S. in Biomedical Engineering. Beijing, China
- Dissertation: “Research and Design of Lower Limb Virtual Rehabilitation Training Scene”. Sep. 2012 – July 2016

## Work Experience

### *Medical Physicist, Peking University Third Hospital*

- Design radiotherapy treatment plans using Eclipse and Oncentra treatment planning system Beijing, China
- Perform patients specific plan QA. Conduct monthly quality assurance (QA) Aug. 2019 - Aug. 2021
- for Linac and HDR Brachytherapy machine

## Publications

### *Journal Articles*

1. **Wu, W.**, Shao G. Pan, Z., et al. Reconstruction of Cold-Cathode Flat-Panel X-ray Source distribution by Coded Aperture Imaging. IEEE Transactions on Medical Imaging. **(Under Review)**
2. Zhang X., Dai J., Chen J.#, **Wu, W.#**, and Xu Y.#, Characteristic Analysis of Anode Panel for ZnO Nanowires Cold Cathode Flat-Panel X-ray Source Using Monte Carlo Simulation, Nuclear Science and Techniques, (2024) (# co-corresponding author).
3. **Wu, W.**, Qi, M., Chen, X., Zhou, Y., Pan, Z., Kang, S., Dai, J., Zhang, X., Zhou, L., Chen, J. and Xu, Y.

Feasibility Study of a Cold-cathode Flat-panel X-ray Source with Micro-array Anode Target for Grating Interferometer Computed Tomography. IEEE Transactions on Nuclear Science. (2023)

4. **Wu, W.**, Qu, J., Cai, J. and Yang, R. Multiresolution residual deep neural network for improving pelvic CBCT image quality. Medical Physics, 49(3), pp.1522-1534. (2022)
5. **WU, W.**, LI, Y., YANG, Z. Performance of multi-slice channelized Hotelling observer for low-contrast signal detection in simulated CT data[J]. Chinese Journal of Medical Physics, 35(12):1462-1467. (2018)

### **Conference Proceedings**

1. Shao G, Li Q, Pan Z, Chen X, Zhang X., Liu Q., Guicai Qi, Chen J., **Wu W.#**, Xu Y#, Zhou L#. Source Phase Stepping for grating interferometry using Addressable Cold-Cathode Flat-Panel X-ray Source, XNPIG 2024. (**Oral Presentation, Corresponding Author**)
2. **Wu W.**, Dai J., Qi M., et al. Simulation study of a novel ZnO nanowire cold cathode flat-panel x-ray source using EGSnrc for Talbot-Lau type grating interferometry[C]//Medical Imaging 2023: Physics of Medical Imaging. SPIE, 2023, 12463: 47-52. (**Oral Presentation + Conference Paper**)
3. **Wu W.**, Qu J., Cai J., et al. Multi-Resolution Residual Deep Neural Network for Generating Synthetic CT Images with High HU Accuracy and Structural Fidelity. (**Oral Presentation** at AAPM 2021 Virtual 63rd Annual Meeting)

### **Skills**

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- GRE: 168Q, 159V, 3.5W
- TOEFL: 96
- Experienced in MATLAB, Python, C and C++