



昆山杜克大学  
DUKE KUNSHAN  
UNIVERSITY

# Master of Science in Medical Physics

*A Fusion of Physics and Medicine for a Globally Minded Career*

Become a leader in the emerging field of Medical Physics, fusing your expertise in physics with improved medical care. This is a dynamic profession that applies the concepts of physics to the diagnosis and treatment of human disease, with career paths that include academic, research and clinical settings. With an advanced degree in Medical Physics, you will be empowered to contribute cutting-edge medical care globally.

ABUNDANT SEMINARS AND RESEARCHES  
RICH SCHOLARSHIP  
TWO YEARS TWO COUNTRIES  
DUKE MASTER DEGREE  
INTERNATIONAL CONFERENCE  
ACCREDITED BY AAPM AND IAEA

SMALL CLASS  
PRACTICUM  
DIVERSITY  
PHD BRIDGE

STELLAR FACULTY  
MEDICAL PHYSICS FRONTIER KNOWLEDGE  
ENGLISH ENVIRONMENT  
GUARANTEED JOB PLACEMENT

## REQUIRED APPLICATION MATERIALS

Completed online application form  
Resume/CV  
Statement of Purpose(500 words-1000 words)  
Three letters of recommendation  
Transcript(s) from each post-secondary institution attended  
Official GRE or MCAT scores  
Official TOEFL score (minimum score of 90 required) or IELTS score (minimum score of 7.0 required)

## QUICK FACTS

Type: Full time  
Length: 2 years  
Degree: Duke University  
Location: Duke University & Duke Kunshan University  
Candidate: Bachelor degree holder in Physics, or other Natural Science and Engineering majors  
Language: English  
Scholarship: Available

## DEADLINES

**Priority Deadline: January 31**

All applications are submitted online. Applications submitted after the priority deadline will be considered if places are still available. Please email: [mp-education@dukekunshan.edu.cn](mailto:mp-education@dukekunshan.edu.cn) to find out more.

## SCHOLARSHIP

All students are automatically considered for merit scholarships based on their Graduate School application - no additional application is required. In addition, accepted students may apply for need-based scholarships and awards based on financial need, country of origin, and field of study.



See our website for more information on how to apply:  
[www.dukekunshan.edu.cn](http://www.dukekunshan.edu.cn)



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# PROGRAM AT A GLANCE

*Two Years, Two Countries, Multiple Tracks.*

Year 1 Fall & Spring at Duke Kunshan Campus  
6 core courses, 1 seminar course and field trips to hospitals, companies & labs, qualifier exam

Summer After Year 1 at Duke University, US  
Thesis research, practicum

Year 2 Fall at Duke University, US  
Thesis research, practicum, track-specific courses

Year 2 Spring at Duke Kunshan Campus  
Frontier courses and thesis defense

The curriculum integrates classroom learning with clinical practicum training, ensuring students gain clinical exposure and basic clinical physics training using state-of-the-art technology and treatment modalities at Duke University Medical Center and at partner hospitals in China that are among the nation's most preeminent facilities.

You will specialize at Duke Kunshan in one of the following academic tracks, or choose a multi-track path:

- Diagnostic Imaging Physics
- Radiation Therapy Physics
- Nuclear Medicine Physics



# CAREERS

Equipped with an exceptional education and your advanced degree from Duke University, you will be among your nation's elite at the forefront of medical physics in industry, hospital clinics, universities and government facilities.

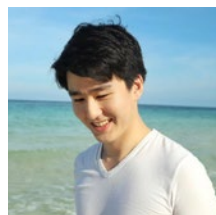
## Where did our graduates go (partly)?



### **Yushi Chang**

*Thesis Topic: An Investigation of Machine Learning Methods for Delta-radiomic Feature Analysis*

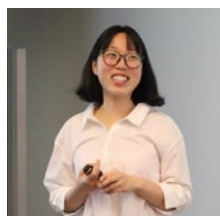
*Advisor: Prof. Fang-Fang Yin, Professor of Radiation Oncology, Duke University; Director of Radiation Physics Division, Department of Radiation Oncology, Duke University Health*  
*Career: PhD, Duke University, US*



### **Wentao Wang**

*Thesis Topic: Beam Optimization for Whole Breast Radiation Therapy Planning*

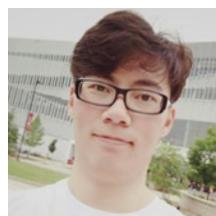
*Advisor: Prof. Jackie Wu, Professor of Radiation Oncology, Duke University*  
*Career: PhD, Duke University, US*



### **Huimin Zhang**

*Thesis Topic: Dynamic Shimming of the Human Brain with a 32-channel Integrated Parallel Reception, Excitation, and Shimming (iPRES) Head Coil Array*

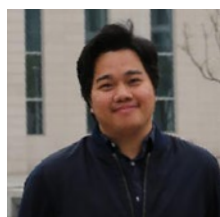
*Advisor: Prof. Trong-Kha Truong, Associate Professor in Radiology, Duke University*  
*Career: PhD, The Chinese University of Hongkong*



### **Chenjie Zhang**

*Thesis Topic: APET Image Quality in the Vicinity of the Bladder with F-18 and Ga-68*

*Advisor: Prof. Timothy Turkington, Associate Professor of Radiology, Duke University*  
*Career: Product Specialist, Shanghai United Imaging, China*



### **Eder Jerecho Laguda**

*Thesis Topic: Dosimetric Evaluation of Metal Artefact Reduction using Metal Artefact Reduction (MAR) Algorithm and Dual-energy Computed Tomography (CT) Method*

*Advisor: Prof. Fang-Fang Yin, Professor of Radiation Oncology, Duke University Director of Radiation Physics Division, Department of Radiation Oncology, Duke University Health*  
*Career: Sales Executive, Ion Beam Applications (IBA), Singapore*



### **Qinglong Gu**

*Thesis Topic: Iterative Reconstruction of SPECT Brain with Priors Based on MRI T1 and T2 Image*

*Advisor: Prof. James Bowsher, Adjunct Associate Professor of Radiation Oncology, Duke University Faculty, Graduate School and Medical Physics Graduate Program, Duke University*  
*Career: Medical Physicist, KK Women's and Children's Hospital, Singapore*



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