

Xueyan Lu, CMD

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EXPERIENCE

University of Miami - Sylvester Comprehensive Cancer Center

Miami, FL

Medical Dosimetrist

Oct. 2024 - Present

- Planned with CSI, HyperArc SRS, Ethos adaptive, Hypersight, SBRT, 3D, and IMRT/VMAT
- Planned across multiple machine platforms, including Truebeam, Ethos, and Edge
- Performed PET/CT, 4D CT, and MRI image fusion with MIM and Eclipse
- Served as a lead dosimetrist and a trainer in Ethos adaptive planning
- Instructed physicist students and dosimetry students in treatment planning, providing hands-on training
- Planned a variety of clinical trial cases with accuracy and adherence to protocol
- Gained foundational knowledge in proton therapy theory

AdventHealth

Daytona Beach, FL

Medical Dosimetrist PRN

Feb. 2023 - Oct. 2024

Medical Dosimetrist Intern

Sep. 2022 - Jan. 2023

- Planned electron, WBRT-HA, static IMRT, VMAT, 3D, FiF, SBRT, SRS, and RPM
- Planned cases in ARIA using TrueBeam, Trilogy, and Novalis, with QA tools including EzFluence, ClearCalc, RadCalc, and ClearCheck
- Performed PET/CT, 4D CT, and MRI image registration with Velocity and Eclipse
- Secured a full-time position (1 of 4 interns selected) at AdventHealth upon successful completion of internship
- Completed assigned tasks in half the time of peers during internship, demonstrating exceptional efficiency

Nokia

Hangzhou, China

Senior Software Automation Engineer

Sep. 2015 - Oct. 2017

Software Automation Engineer

May. 2011 - Aug. 2015

- Designed and led the development of an innovative automation system that reduced reliance on costly test equipment, resulting in annual cost savings of €230,000, awarded with the Lean Six Sigma Green Belt Certification
- Developed the automation scripts of continuous integration, unit testing, and feature validation

Alibaba

Hangzhou, China

Software Engineer

Jul. 2010 - Apr. 2011

- Performed unit and functional testing on website components deployed in a Linux environment

EDUCATION

John Patrick University of Health and Applied Sciences

South Bend, IN

Master of Science in Medical Dosimetry; GPA: 3.82

Sep. 2020 - Dec. 2022

University of Electronic Science and Technology of China

Chengdu, China

Master of Engineering in Information and Communication Engineering

Sep. 2007 - Jul. 2010

Heilongjiang University of Science and Technology

Harbin, China

Bachelor of Engineering in Electrical and Electronics Engineering

Sep. 2003 - Jul. 2007

PROJECTS

CoMP | UESTC

Fall 2009 - Spring 2010

- Designed a new Multi-User MIMO Scheme in Coordinated Multiple Point (CoMP) with adaptive ICIC strategy

Deep Space | UESTC, National 863 Program

Mar. 2008 - Jul. 2008

- Verified a low complexity code-aided carrier synchronization algorithm for deep space communication

HONORS

- Excellent Undergraduate Student in Heilongjiang Province - Heilongjiang Department of Education
- The First Award of Undergraduate Advanced Mathematical Contest - HUST
- The First Class Award Scholarship (twice) - HUST

CERTIFICATIONS

Certified Medical Dosimetrist (CMD) since Sep. 2023

Lean Six Sigma Green Belt Certification since 2016