

Leo Edwards

Assistant Professor

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SUMMARY

Dynamic medical physicist with extensive experience in radiation oncology, emphasizing clinical care and teaching. Proven track record of scholarly publications and presentations in medical physics, supported by diverse experience with advanced radiation therapy technologies. Demonstrated ability to lead research initiatives and engage in interdisciplinary collaborations that enhance patient care and clinical outcomes. Passionate about education and committed to advancing medical physics through innovative teaching methods and research.

EXPERIENCE

Assistant Professor

Radiation Health Systems 📅 July 2023 - Present 📍 San Francisco, CA

Lead a team focused on advanced research within the medical physics landscape, integrating service and education equally.

- Spearheaded a translational medical physics research program, securing grant funding for pioneering studies.
- Conducted clinical assessments utilizing CyberKnife and TrueBeam systems, achieving superior treatment precision.
- Developed graduate course curricula that engage students, promoting critical thinking and innovation.
- Collaborated across disciplines to propel research initiatives, resulting in numerous high-impact publications.
- Provided comprehensive clinical coverage, upholding safety protocols to ensure outstanding patient care.
- Mentored residents through hands-on experiences, building confidence and clinical skills in emerging professionals.

Clinical Physicist

Medical Physics Institute 📅 August 2020 - June 2023 📍 San Diego, CA

Managed clinical operations while ensuring rigorous adherence to safety standards and procedural excellence.

- Implemented quality assurance protocols across radiation therapy equipment, enhancing operational efficiency and patient safety.
- Developed clinical guidelines for treatment planning, driving compliance with regulatory standards.
- Facilitated interdisciplinary discussions on treatment strategies, fostering collaboration among diverse healthcare teams.
- Delivered training sessions on advanced imaging technology, improving staff knowledge on safety measures.
- Presented key research findings nationally, raising institutional visibility within the field.
- Assisted with residency program accreditation, notably boosting recognition and enrollment.

Graduate Research Assistant

University of California, Los Angeles 📅 September 2018 - June 2020 📍 Los Angeles, CA

Supported faculty-led research efforts while contributing to both curricular needs and research advancements.

- Invested in research pertinent to dose optimization techniques, innovating radiation therapy methodologies.
- Collaborated closely with faculty on publications, strengthening academic contributions to medical physics.
- Aided in teaching undergraduate courses, providing valuable support during laboratory sessions.
- Constructed simulation models for treatment assessments, yielding data-driven insights into clinical practices.
- Showcased research progress at various symposia, gaining peer recognition for problem-solving approaches.
- Contributed significantly to departmental initiatives, enriching collaboration between academics and practitioners.

LEADERSHIP & AWARDS

- Best Research Presentation, National Medical Physics Conference, 2021
- Dean's List, University of California, Los Angeles, 2018-2020

EDUCATION

PhD in Medical Physics

University of California, Los Angeles 🎓 GPA: 3.8 📅 2020 📍 Los Angeles, CA

Coursework: Radiation Therapy, Imaging Techniques, Radiation Biology, Quality Assurance

CERTIFICATIONS

- American Board of Radiology (ABR) Board Certified in Medical Physics 📅 2021

TECHNICAL SKILLS

- **Radiation Equipment:** CyberKnife, Varian TrueBeam, MRI Simulators

- **Research Methods:** Quantitative Analysis, Simulation Modeling, Treatment Planning
- **Software Tools:** CT Simulators, Dosimetry Software, Imaging Technologies
- **Regulatory Compliance:** NCRP Standards, ICRP Guidelines, AAPM Protocols
- **Quality Control:** Equipment Calibration, Safety Audits, Clinical QA Procedures
- **Interdisciplinary Collaboration Platforms:** Tumor Boards, Research Collaborations, Academic Conferences
- **Teaching Techniques:** Experiential Learning, Curriculum Development, Interactive Classrooms
- **Statistical Software:** SPSS, R, MATLAB
- **Publication Venues:** Peer-reviewed Journals, National Conferences, Local Symposia
- **Professional Associations:** AAPM, ASTRO, RSNA

SKILLS

- Radiation Therapy
- Research Methodologies
- Quality Assurance
- Medical Physics
- Clinical Teaching
- Interdisciplinary Collaboration

PROFESSIONAL AFFILIATIONS

- Member, American Association of Physicists in Medicine (AAPM)
- Volunteer, Community Health Awareness Programs

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST