

## Faculty

John Roeske, PhD  
Professor & Chief of Med. Physics  
Section

Anil Sethi, PhD  
Professor &  
Director of Residency Program

Sebastien Gros, PhD  
Assistant Professor

Jake Jackson, MS  
Staff Physicist

Hyejoo Kang, PhD  
Assistant Professor

Brian Lee, PhD  
Assistant Professor

Michael Mysz, MS  
Staff Physicist

Iris Rusu, MS  
Staff Physicist  
Asst. Director Residency Program

Tiffany Tsui, MS  
Staff Physicist

## Residents

Alexander Podgorsak, PhD  
SUNY Buffalo  
Buffalo, NY

Michael Delafuente, MS  
University of Pennsylvania  
Philadelphia, PA

## Programs

Stereotactic Radiosurgery (SRS),  
Stereotactic Body Radiotherapy  
(SBRT),  
High dose rate (HDR) brachytherapy  
Total Body Irradiation (TBI),  
Brachytherapy (HDR ),  
Intraoperative Radiation Therapy  
(IORT) with Zeiss® INTRA-  
BEAM.  
Eclipse Treatment Planning System  
and  
ARIA record and verify system  
integrated with EPIC hospital wide  
network.

## Contact

*For Further Information:*  
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### Program web-site:

<https://www.loyolamedicine.org/gme/radiation-oncology-physics-residency>



*CAMPEP Accredited*

# **Residency Program in Radiation Oncology Physics**

## **2023-24**

## **Loyola University Medical Center**

**Maywood, IL\***



**LOYOLA  
MEDICINE**

*We also treat the human spirit.®*

*\*Maywood, IL is located 12 miles  
west of downtown Chicago*

## Loyola University Radiation-Oncology Physics Residency Program

The Residency Program in Radiation Oncology Physics at the Loyola University Medical Center (LUMC) is intended to provide comprehensive training in all aspects of clinical physics.

Candidates for the training program are expected to have obtained a CAMPEP approved M.S. or Ph.D. in Medical Physics or closely related discipline and would be highly motivated to prepare for a clinically oriented career.

Training will occur at our “state-of-the-art” treatment-facility, Loyola Outpatient Center (see below), under the guidance and supervision of an experienced staff including medical physicists and radiation oncologists.

## Program Goals and Objectives

Broad areas of clinical training for the resident will include equipment calibration and quality assurance, radiation dosimetry, radiation shielding, facility design, special clinical procedures, treatment planning and imaging. The program length is two years consisting of 12 core rotations (2months each)

The physics residency program is fully integrated into the daily clinical operations of the Radiation Oncology Department. The resident works closely with other members of the department: Staff Radiation Oncologists, Medical Physicists, Medical Dosimetrists, Medical Residents, Nurses and Radiation Therapy Technologists. There are ample opportunities to interact with other departments within the LUMC, including Diagnostic Radiology, Interventional Radiology, Surgery and Neuro-

The resident will also receive didactic education in radiation therapy physics.

The residency training program is conducted strictly in accordance with the guidelines from the American Association of Physicists in Medicine (AAPM) Report 249 (Essentials and Guidelines for Clinical Medical Physics Residency Training Programs, AAPM 2013).

After successful completion of the residency program, the candidate will have the required knowledge and training to take and successfully complete the American Board of Radiology (ABR, [www.theabr.org](http://www.theabr.org)) certification examination in Therapeutic Radiological Physics.

The main goals of the residency program are to

- (1) Provide a comprehensive in-depth practical training in all aspects of clinical medical physics, and*
- (2) Prepare the resident for certification in Therapeutic Radiology/Radiation Oncology physics.*

## Staff & Resources

Department is staffed with 10 radiation oncologists, 7 medical residents, 2 physics residents, 9 medical physicists, 7 dosimetrists, 6 radiation oncology nurses, department manager, and 22 radiation therapists. The department also has an affiliated Radiation Biology faculty member and 3 research nurses.

Equipment list: Four (4) state of the art Varian linacs with on-board imaging (OBI), CBCT, VMAT, respiratory gating and Align RT position/monitoring systems. One of the linacs is specially designed and optimized for stereotactic radiosurgery (SRS) and stereotactic body radiotherapy (SBRT).

There are 2 in-house CT scanners (Philips Brilliance Big Bore multi-slice CT scanner and Siemens Somatom 4D-CT); several MR scanners in the Department of Radiology (1.5T to 3T) as well as a Philips PET/CT scanner.

A new satellite radiation oncology facility is slated to begin operations in late 2023 and will house a Varian TrueBeam linac and Siemens CT scanner.



Department web-site:

<https://ssom.luc.edu/radiation-oncology/>