

## Faculty

John Roeske, PhD  
Professor & Chief of Med. Physics

Anil Sethi, PhD  
Professor & Dir. Residency Program

Serpil Dogan, PhD  
Assistant Professor

Sebastien Gros, PhD  
Associate Professor

Hyejoo Kang, PhD  
Assoc Prof & Assoc. Dir. Med Phys

Michael Mysz, MS  
Staff Physicist

Iris Rusu, MS  
Chief of Clinical Physics

Jeremy Cates, PhD  
Staff Physicist

Fergany Badry, PhD  
Assistant Professor

Xing Li, PhD  
Assistant Professor



## Residents

Yussuf Abdelal, MS  
Brown University

Tomas Montenegro, MS  
University of Minnesota

## Clinical Programs\*

Varian Ethos® Adaptive RT (CT guided ART)

Stereotactic Radiosurgery (SRS),  
Stereotactic Body Radiotherapy (SBRT),

High dose rate (HDR) brachytherapy

Total Body Irradiation (TBI),

Intraoperative Radiation Therapy (IORT) with Zeiss® Intrabeam.

Eclipse Treatment Planning System & ARIA record and verify system integrated with EPIC hospital wide network.

\*Additional training provided in Proton therapy, Gamma Knife SRS, CyberKnife, Tomotherapy, LDR brachytherapy & Nuclear Medicine.

## Stritch School of Medicine (SSOM)



## Contact

### *For Further Information:*

**Juliann Moravec**

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Loyola Univ. Medical Center  
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Maywood, IL 60153  
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### Program web-site:

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



*CAMPEP Accredited*

# **Residency Program in Radiation Oncology Physics**

## **2025-26**

## **Loyola University Chicago**

**Maywood, IL\***



**LOYOLA  
MEDICINE**

*We also treat the human spirit.®*

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

## Loyola Univ Chicago Radiation-Oncology Physics Residency Program

Loyola University Chicago Residency Program in Radiation Oncology Physics is intended to provide comprehensive training in all aspects of clinical physics.

Candidates for the 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 (LOC, *see below*), under the guidance and supervision of experienced staff including medical physicists and radia-

## Program Goals and Objectives

Broad areas of training are: Equipment calibration and QA, radiation dosimetry, shielding, facility design, special clinical procedures, treatment planning and imaging. We also offer a unique joint Imaging-Therapy rotation in collaboration with imaging group. Program length is two years with 12 core rotations of 2months each.

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

The resident will also receive didactic education in radiation therapy physics, radiation biology and statistics.

The residency training program is conducted strictly in accordance with 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 program, the resident will have the required knowledge and training to pass 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 comprehensive & in-depth practical training in all aspects of clinical medical physics, and*
- (2) Prepare the resident for ABR certification in Therapeutic Radiology/Radiation Oncology physics.*

## Staff & Resources

Department is staffed with 10 radiation oncologists, 7 medical residents, 2 physics residents, 10 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: Varian Ethos CT guided Adaptive RT (ART); three(3) 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 dedicated to 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-CTs); several MR scanners in the department of Radiology (1.5T to 3T) as well as a Philips PET/CT scanner.

A recently added satellite radiation oncology facility houses a Varian TrueBeam linac and a Siemens CT Scanner.

Department web-site:

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



Loyola Outpatient Center (LOC)