

## ALUMNI NEWS

## WSU MEDICAL PHYSICS GRADUATE PROGRAM *ALUMNI UPDATE*

Dear WSU Medical Physics Alumni,

We are excited to share news on the continued success of the program and our graduates. Our MS, PhD, DMP, and Graduate Certificate programs are all accredited by CAMPEP through 2026 and we remain the only institution in the world with all four of these programs. Since our last newsletter, the KCI-Flint affiliate residency program to our Karmanos Cancer Center residency has been fully accredited through 2025 so we are now accredited across three sites (Detroit, Flint, and Windsor, Ontario). In August, we will welcome a new class of students which includes 1 PhD student, 6 MS students, and 1 Graduate Certificate student. This will bring our program total to 33 students (18 PhD, 13 MS, 1 DMP, 1 GC). Over the past year we had five graduates apply for residency programs and four successfully secured a position. While the overall residency placement rate for graduates of CAMPEP accredited graduate programs remains approximately 70% (including both match and non-match position), our placement rate is greater than 90% over the past 5 years. The list of residency programs in which we have placed graduates over this time period includes Karmanos Cancer Center, University of California - San Francisco, Cedars-Sinai Medical Center, Ohio State University, Stanford University, University of California - Los Angeles, and Duke University just to name a few. The high quality of our matriculating students and their residency placement success remains consistent even as the number of accredited programs has grown dramatically. We are exceptionally proud of the performance of our students in the program and beyond and hope that you, our alumni, remain as proud of the program as we are.



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### SUMMER 2024

The Wayne State School of Medicine Medical Physics Alumni Newsletter is a publication designed to keep our alumni up to date with program news and developments. In order to continue receiving this publication, please notify us of email changes by contacting Paige Davis @ [pgdavis@med.wayne.edu](mailto:pgdavis@med.wayne.edu).

## WSU SOM MEDICAL PHYSICS GRADUATE STUDENT RESEARCH AWARD

Our annual Graduate Student Research Award competition was held on May 30th. Four excellent presentations were delivered by our graduate students Luke Layman, Jill Moreau, Peilin Liu, and Doris Rusu. These included data

national meetings, making for a difficult job for our judges, Drs. Colin Orton, Otto Muzik, and Adrian Nalichowski.

The winner of the 2024 WSU Medical Physics Graduate Student Research Award was Luke Layman for his presentation “Exploring a Hybrid Workflow on Ethos

Adaptive Radiotherapy”.

Thanks to the generous donations of our alumni, Luke will receive a \$1200 stipend to attend the annual AAPM meeting in Los Angeles, CA. You can meet Luke at our annual WSU alumni gathering, where he'll officially accept his award.

## WSU Medical Physics Graduates Enjoy Exceptional Residency Placement Success

While residency placement has become the bottleneck in the medical physics education and training pipeline, WSU graduates continue to enjoy success in acquiring residency positions. This year a total of 323 applicants registered for the MedPhys Match. Unfortunately, these applicants competed for only 167 positions, meaning that the success rate in securing a position in the Match remains approximately 50%. While many graduates secure accredited residency positions outside of the match, the overall success rate for graduates of CAMPEP accredited graduate programs who apply for residency positions is currently approximately 70%. This is an unfortunate statistic for many of these graduates and for our profession. Board eligibility is contingent upon the completion of an accredited residency program and the uncertainty associated with the difficulty in securing a residency position could dissuade some high quality candidates from entering our profession. Our program has traditionally provided exceptional training both in the classroom and in the clinic, including our internship, laboratory coursework, and other practical clinical training opportunities. This has allowed us to build an excellent national reputation for producing high quality clinical residents. As a result, our residency placement rate is over 90% for the past five years. In fact, our overall residency placement rate is 88% since the 2012/2014 ABR residency requirement went into effect. Below is a list of graduates entering clinical residency training programs over the past 5 years.

Name	Grad Year	Residency Program	Name	Grad Year	Residency Program
Haiqa Arain	2024	Cleveland Clinic	Tommy Etienne	2022	Baylor Scott & White
Luke Layman	2024	Loyola University Med Center	Danny Braithwaite	2022	Karmanos Cancer Center
Avery Peterson	2024	William Beaumont Hospital	Alexi Jankulovski	2022	Karmanos Cancer Center
Alexander Prince	2024	Karmanos - Flint	Andrea Bisutti	2021	Henry Ford Hospital
Jill Moreau	2023	Karmanos Cancer Center	Alec Buczek	2021	Medical Physics Consulting
Garett Roe	2023	UC - San Francisco	Shupeng Chen	2021	William Beaumont Hospital
Grahm Valadie	2023	Cedars-Sinai Medical Center	Suneetha Devpura	2021	Henry Ford Hospital
Meghana Ramani	2023	Ohio State University	Eric Morris	2020	UCLA
Lewei Zhao	2022	Stanford	Kirsten DeCampos	2020	Karmanos Cancer Center
Hovakim Nazaryan	2022	Karmanos - Flint	Jeffrey Alberghini	2020	Karmanos Cancer Center
Evan Porter	2022	UC - San Francisco	Laza Rakotondravohitra	2019	Duke University
Eric Carver	2022	Henry Ford Hospital	Nick Myziuk	2019	William Beaumont Hospital
Stephen Mee	2022	Texas Oncology	An Qin	2019	William Beaumont Hospital

## The American Board of Radiology Certification Exam - WSU Experience

As an indicator of the quality of our program, we annually evaluate the ABR exam performance of our graduates. Over the past 10 years, the average pass rate for the Part 1 general and clinical exams are 85% and 88% for WSU graduates. This is substantially higher than the pass rates of 64% and 72% for all examinees. Similarly, over the past 10 years, the average pass rate for the Part 2 and Part 3 exams are 92% and 67% for WSU graduates in comparison to 81% and 65% for all examinees. For those planning to take the ABR Part 3 exam, please consider registering for the annual WSU Oral Exam Review. It is free for all WSU grads!

## Join the Debate - The JACMP Debate Series

The Journal of Applied Clinical Medical Physics (JACMP) has run a "Parallel Opposed" debate series for nearly 10 years. For the past 5 years, a component of this series has been the "Three Discipline Collaborative Radiation Therapy (3DCRT)" debate. This series began by including a radiation oncologist, medical physicist, and radiobiologist on each debate team. More recently, the 3DCRT debates have broken from the traditional participants to involve others, such as patient advocates or clinical trainees within these three person teams. However, the debate still represents a "team-science" format in which each team produces coherent arguments which knit together the expertise afforded by each individual discipline. A compilation of these debates is available on the JACMP website at [https://aapm.onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)1526-9914.debates-in-medical-physics](https://aapm.onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)1526-9914.debates-in-medical-physics). If you have an idea for a Parallel Opposed or 3DCRT debate, or are interested in participating in one, please email Jay Burmeister at [burmeist@karmanos.org](mailto:burmeist@karmanos.org).

## Dr. Otto Muzik Receives WSU Medical Physics Graduate Program Distinguished Faculty / Alumnus Award

Otto Muzik, Ph.D., Professor in the Departments of Pediatrics and Radiology within the Wayne State University School of Medicine, has been awarded the WSU Medical Physics Graduate Program Distinguished Faculty / Alumnus Award. This award is given annually to a faculty member and/or alumnus who has made significant contributions to the field of medical physics and to the WSU Medical Physics Graduate Program. Dr. Muzik obtained a PhD in Radiation Physics from the Technical University of Vienna in (at that time) the emerging field of brain research using Positron Emission Tomography (PET). After completing his PhD, Dr. Muzik conducted post-doctoral research in cardiac PET imaging at the University of Michigan in Ann Arbor. In 1994, Dr. Muzik joined the Wayne State University Medical School in the Department of Pediatric Neurology, where he assumed the role of a senior physicist in the newly opened Children's Hospital of Michigan PET Center. Since then, he established himself as an expert in the quantitative analysis of PET data, specifically with respect to quantitative integration of multimodality neuroimaging data obtained from PET, MRI and electrophysiology in order to improve the understanding of neural mechanisms underlying various neurological defects during critical developmental periods. Dr. Muzik has taught in the WSU Medical Physics program for 30 years, viewing the realization of each student's potential as The core mission of a University. Congratulations, Dr. Muzik!



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## Alumni Gathering—Monday July 22nd, 2024

The annual meeting of the American Association of Physicists in Medicine will take place from July 21st to July 25th, 2024. Our annual Wayne State University Medical Physics Graduate Program Alumni Gathering will take place on Monday, July 22nd. This year's gathering will be held at the Yard House, located at 800 West Olympic A-115.

We welcome all that can attend to join us to catch up with old friends and meet new ones. If you have not had the chance to meet our Graduate Student Research Award winner, Luke Layman, he will be awarded with his certificate for winning the competition at the alumni gathering.

## We want to hear from you!

We would love to hear about your accomplishments or any other information you would like to share with our alumni. If you have news to share, please contact Paige Davis at [pgdavis@med.wayne.edu](mailto:pgdavis@med.wayne.edu). We look forward to hearing from you!