



# AAPM-COMP 2020 Annual Student Meeting

Ara Alexandrian, Ph.D. 2020 AAPM STSC Chair



# Who are we?

- 17 student and trainee voting members
- 5 non-voting appointments
- 2 faculty advisors



## Chair & Vice-Chair



Ara Alexandrian, PhD

## Faculty Advisors



Mallory Glenn, PhD

Todd Atwood, PhD

Jay Burmeister, PhD

## IT Communication



Phillip Wall, PhD



Rebecca Mahon, Ph.D.

## Annual Student Night Out



Natalie Viscariello, PhD



Holly Parenica, PhD

## MedPhys Slam



Catherine Steffel, MS

## ABR IC Advisory Team



Kristen McConnell, PhD



Sam Simiele, PhD



Reed Kolany



Daniela Branco, PhD

## Residency Fair Interview Workshop



Emily Thompson, PhD



Ahtesham Khan



Clara Fallone

## New 2020 Members



Mary Gronberg, MS



Mychaela Coyne, PhD



Eric Morris, PhD

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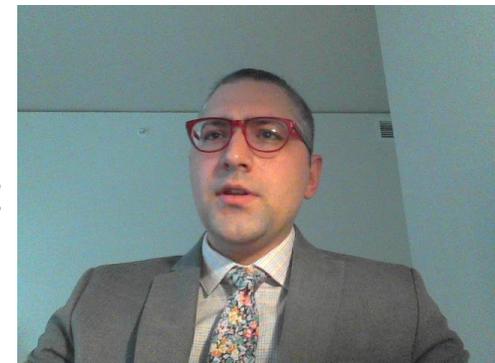
# We are Recruiting!

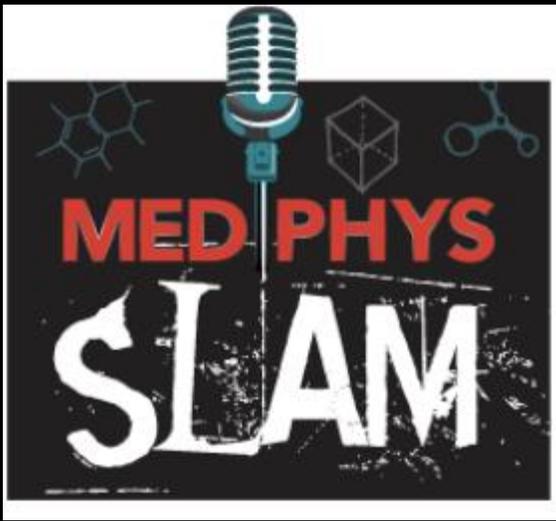
## Look out for STSC applications in the Fall

# Yearly Activities

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- Letter to Education Council about the MedPhys Match
- ABR Exams & Current COVID Situation
- Working with EXCOM to change how trainees are listed on committees (guests – nonvoting)
- Promote Students & Trainees Opportunities on Social Media
- Planning for Annual AAPM Meeting - virtualization
- Virtual Residency Fair and coordinating residency program open houses
- Working with UC San Diego to make Videos for Online Interviews
- Coordinate Chapter MedPhys Slam Events
- Working Group of Non-Clinical Medical Physicists to expand non-clinical resources in the STSC



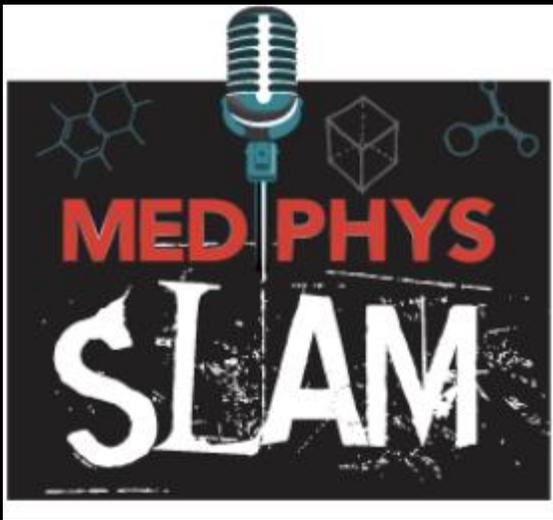


# 2020 Joint AAPM | COMP Meeting 62<sup>nd</sup> Annual Meeting of the AAPM Finalists

We had 13 chapters hold their chapter competitions before we had to cancel the final Slam competition at the meeting.

We wanted to recognize the efforts of those individuals today. And say a big thanks to those chapters that participated!





**Karl Mund** | University of Florida | Florida Chapter  
*The Artificial Hero*

**Noora Ba Sunbul** | University of Michigan | Great Lakes Chapter  
*Ionized Radiation Acoustic Imaging (iRAI) for In-vivo FLASH Dosimetry*

**Michael Trimpl** | University of Oxford Institute of Biomedical Engineering | International Contingent  
*The Sidekick Healthcare Heroes Deserve*

**Bright (Oluyemi) Aboyewa** | Creighton University | Missouri River Valley Chapter  
*Safety in MRI Patients with Abandoned Epicardial Leads*

**Yanjing Li** | Rutgers Cancer Institute of New Jersey | New Jersey Chapter  
*Stability Studies of Radiomics Features on CT Images Using a Bio-phantom*

**Dylan Hsu** | Memorial Sloan Kettering Cancer Center | New York (RAMPS) Chapter  
*Detection and Segmentation of Brain Metastases on MR and CT Images Using Machine Learning and a Novel Optimized Thresholding Technique*

**Peter Germain** | University of Massachusetts-Lowell | Northeast Chapter  
*Optical Detection of Breast Cancer*

**Tomi Nano** | University of California San Francisco | Northern California Chapter  
*Reducing IMRT QA Workload by 95% and Keeping the Same Level of Quality Control*

**Austin Turnidge** | Oregon Health & Science University | Northwest Chapter  
*Testing the microSilicon Detector*

**Drew Carlton** | University of Kentucky | Ohio River Valley Chapter  
*Vendor Mis-Calibration of Pre-Clinical Irradiator*

**Naveed Islam** | UPMC Hillman Cancer Center / University of Pittsburgh Medical School | Penn-Ohio Chapter  
*A Novel Approach to Quality and Safety Management in Radiotherapy During a Pandemic*

**Zachary Diamond** | Georgia Institute of Technology | Southeast Chapter  
*Robustness of AirNET to Training Library for Sparse-View CT*

**Soleil Hernandez** | MD Anderson Cancer Center | Southwest Chapter  
*Needed Gains to Save Young Brains*

**Congratulations on  
winning your local  
chapter!**



# Stay tuned for more STSC events!

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- Follow us online:

**@aapmstsc**





# 2020 STSC Annual Student Meeting: Radiobiology - The Key Toward Individualized Patient Care



Kristen McConnell, PhD  
University of Alabama at  
Birmingham

Vitali Moiseenko, PhD  
UC San Diego

Michael Joiner, PhD  
Wayne State

Emily Thompson  
MD Anderson

Robert Stewart, PhD  
University of  
Washington

Jay Burmeister, PhD  
Wayne State

**I'm just a  
Trainee...How Can I  
Help?**

**Deconvolving  
Individual Dose  
Response to  
Maximize Therapeutic  
Ratio**

**Practical  
Radiobiologic  
Concepts All  
Physicists Should  
Know Well**

**Telling the Biological  
Story with Multi-  
Modality Imaging**

**Opportunities for  
Multi-Modality  
Radiation Therapy**

**Discussion**



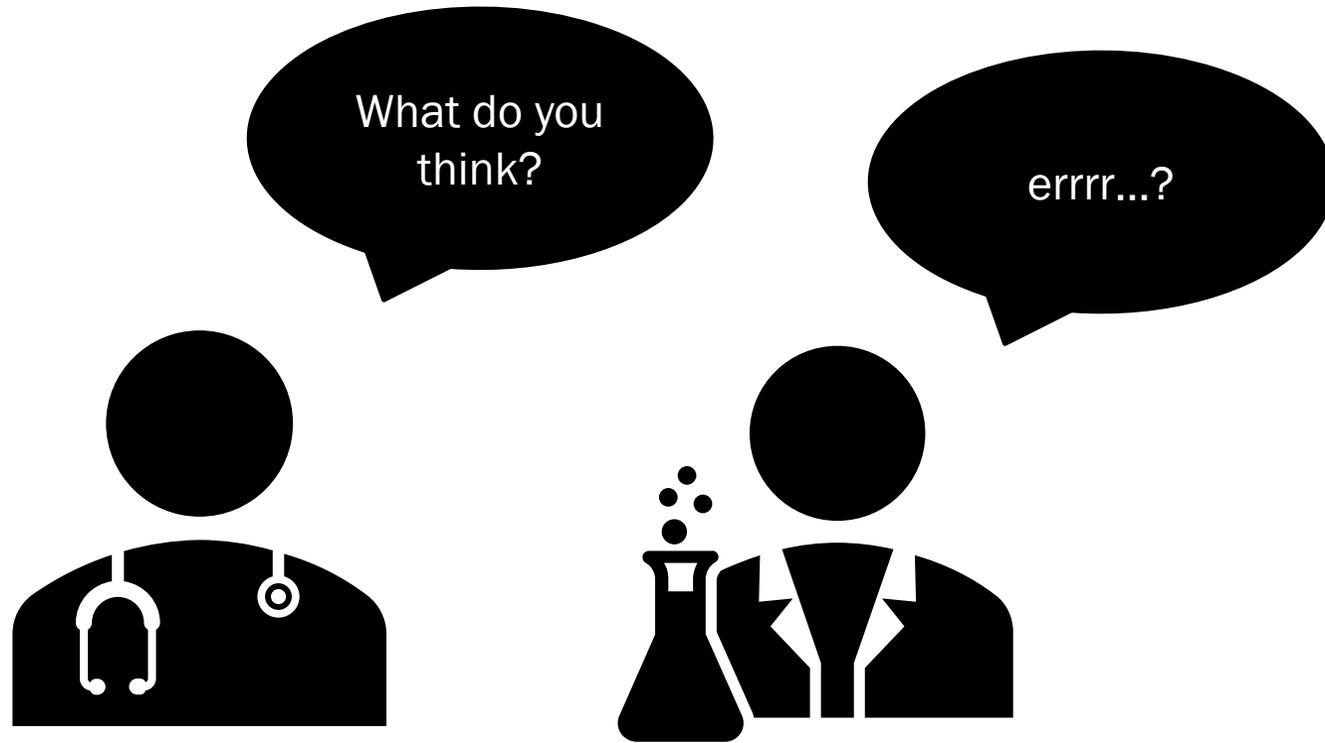
**I'M JUST A  
TRAINEE...  
HOW CAN I  
POSSIBLY  
HELP?**

KRISTEN A MCCONNELL, PHD  
THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

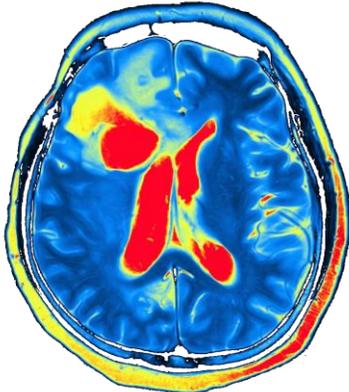




# MY COLLEAGUE THINKS I'M A DUMB@\$\$



# WHAT ABOUT IMAGING?



# WHAT ABOUT COMBINING MODALITIES?



# LET'S KICK THIS OFF!



Vitali Moiseenko, PhD  
UC San Diego

Deconvolving  
Individual Dose  
Response to  
Maximize  
Therapeutic Ratio



Michael Joiner, PhD  
Wayne State

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Opportunities for  
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