

# Professional Development and Research Training Program

The Department of Surgery Professional Development and Research Training Program includes attainment of an advanced degree through The Ohio State University College of Medicine Master of Medical Science Program (MMSP). The MMSP is designed to provide flexible, advanced-degree training for physicians interested in pursuing careers in academic medicine. Training is achieved through a core curriculum, electives individualized for the student's career path and a mentored research project. Curricular tracks are available that support basic/translational science, clinical science, health services and education science.

## Core Curriculum

- Research Design and Methods
- Research Ethics
- Science Communication and Grant Writing
- Statistical Analysis
- Signature Program Translational Science Series
- Elective Examples
  - Career Development for Surgeons
  - Business Practice for Surgeons
  - Biomedical Informatics
  - Pharmacogenomics
  - Health Policy and Delivery
  - Survey Design
  - Health Services Research

## Recipients of Master of Science degree while in the Surgery Residency Program at Ohio State



**Adrian Diaz, MD**  
National Clinician Scholars Program – 2021



**Steven Sun, MD**  
Immunotherapeutics – 2021



**Natalie Eisert, MD**  
PET/CT Imaging of Peripheral Arterial Disease – 2020



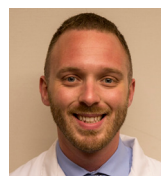
**Amblessed Onuma, MD**  
Immune Mechanisms of Tissue Injury – 2020



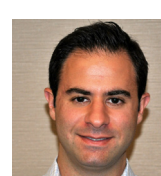
**Kejal Shah, MD**  
Tissue Engineering – 2020



**Clifford Akateh, MD**  
Immunotherapeutics – 2019



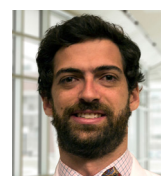
**Kevin Ricci, MD**  
Clinical Outcomes, Surgical Critical Care – 2019



**Jason Zakko, MD**  
Tissue Engineering – 2019



**Rita Shelby, MD**  
Immunotherapeutics – 2019



**David Koller, MD**  
Cancer Biology – 2018



**Joseph Drews, MD**  
Tissue Engineering – 2018

## Department of Surgery residency alumni who completed a Master of Science degree

**Eliza Beal, MD**

Immunotherapeutics – 2017

**Shaylyn Bennett, MD**

Heart Failure Physiology – 2017

**Nakesha King, MD**

Tissue Engineering – 2017

**Christopher McQuinn, MD**

Immunotherapeutics – 2017

**David Strosberg, MD**

Surgical Education and  
Coagulation/Hemostasis – 2017

**Taehwan Yoo, MD**

Immunotherapeutics – 2017

**Shayna Brathwaite, MD**

Cancer Biology – 2016

**Daniel Lodwick, MD**

Clinical Outcomes in Pediatric  
Surgery – 2016

**Ekene Onwuka, MD**

Immunotherapeutics – 2016

**Nicholas Latchana, MD**

Cancer Biology – 2015

**Sara Mansfield, MD**

Immunology – 2015

**Terrence Rager, MD**

Tissue Engineering – 2015

**Kara Rossfeld, MD**

Cancer Biology – 2015

**Joseph Drosdeck, MD**

Clinical Outcomes, MIS – 2014

**Justin Huntington, MD**

Cancer Biology – 2014

**Robert Plews, MD**

Cancer Biology – 2014

**Rachael Sullivan, MD**

Cancer Biology – 2014

**Sylvester Osayi, MD**

Clinical Outcomes,  
MIS/Endoscopy – 2014

**Sara Martin del Campo, MD**

Cancer Biology – 2013

**Mika Matthews, MD**

Intestinal Inflammation – 2013

**Tyler Spata, MD**

Cardiac Pathophysiology – 2013

**Mark Wendling, MD**

Clinical Outcomes, MIS – 2013

**Jon Henry, MD**

Cancer Biology – 2012

**Eric Luedke, MD**

Cancer Biology – 2012

**Laura Peterson, MD**

Vascular Biology – 2012

**Jon Wisler, MD**

Inflammation/Critical Care – 2012

**Amy Collins, MD**

Cancer Biology – 2011

**Michelle Kincaid, MD**

CMV Virology – 2011

**Maureen Kuhrt, MD**

Cancer Biology – 2011

**Thomas Pham, MD**

Transplant Immunology – 2011

**Ricardo Quarrie, MD**

Cardiac Pathophysiology – 2011

**Iyore James, MD**

Intestinal Inflammation – 2010

**Peter Nau, MD**

Clinical Outcomes, MIS/NOTES – 2010

**Alicia Thomas, MD**

CMV Virology – 2010

**Mary Dillhoff, MD**

Cancer Biology – 2009

**Kristan Guenterberg, MD**

Tumor Immunology – 2009

**Meghan Forster, MD**

CMV Virology – 2008

**Irina Shakhnovich, MD**

Vascular Biology – 2008

**Natalie Jones, MD**

Tumor Immunology – 2007

**Mason Fisher, MD**

Liver/Pancreas Immunobiology – 2007

**Lloyd Brown, MD**

Tumor Immunology – 2006

**Paul Beery, MD**

Clinical Outcomes,  
Surgical Critical Care – 2005

**Michael Go, MD**

Tumor Immunology – 2005

**Ergun Kocak, MD**

Tumor Immunology – 2005

**William Wallace, MD**

Wound Healing – 2003



**THE OHIO STATE UNIVERSITY**

WEXNER MEDICAL CENTER

**For more information about the research requirements in the Ohio State Department of Surgery and MMS degree, please contact:**



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**Recipients of other master's degrees while in the Surgery Residency Program at Ohio State**



**Greg Metzger, MD**

Surgical Outcomes, Master of  
Integrated Systems Engineering – 2021

**Melissa Hornor, MD**

Health Services and Outcomes,  
Master of Science – 2018  
Northwestern University

**Chelsea Horwood, MD**

Surgical Quality and Safety,  
Master of Public Health – 2018

**Michelle Nguyen, MD**

Surgical Quality and Safety,  
Master of Public Health – 2016



**Anghela Paredes, MD**

Surgical Disparities,  
Master of Public Health – 2020

**Alistair Kent, MD**

Clinical Outcomes,  
Master of Public Health – 2012  
George Washington University

**Ioannis Hatzaras, MD**

Clinical Outcomes,  
Master of Public Health – 2009

**Lisa Haubert, MD**

Surgical Education,  
Master of Anatomy – 2009



**Michael Villarreal, MD**

Surgical Outcomes, Master of  
Business Administration – 2020

**Margaret Sawyer, MD**

Analysis of Professional Billing  
Practices in Surgery, Master of  
Business Administration – 2007

**Vance Smith, MD**

Models for Faculty Reimbursement  
at AMCs, Master of Business  
Administration – 2007