

# **Office of Student Research**

**UM SOM, Oct 28<sup>th</sup>, 2025**

**Info Session 1:**  
**Summer Research Fellowships**

# The Office of Student Research



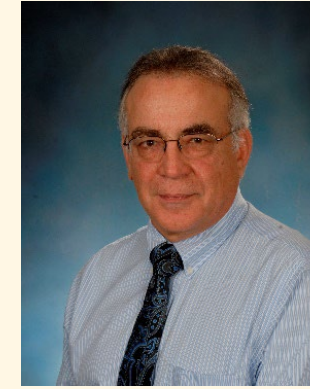
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Interim Associate Dean for Student Research and Education  
Associate Program Director for the Pulmonary and Critical Care  
Medicine Fellowship



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# Session I Topics

- Benefits of Approved Research
- Research Fellowship Myth Busters
- Fellowship Types: Match vs. Idea Mechanism
- Brief overview of OSR-led or supported summer programs
  - PRISM
  - M4I
  - UM Scholars at UMCP & UM Scholars at MDH
  - Additional Funding Opportunities
- Value of both attending 48<sup>th</sup> Annual Medical Student Research Day celebration and MSRD and Forum Booklets

# Benefits of Approved (Summer) Research

- **Immediate**: meritorious in own right, ***might*** fulfill FRCT research requirement.
- **Immediate**: Work along with world class scientists, clinicians and physician scientists
- **Immediate**: \$\$\$\$. stipends for summer research
- **Immediate**: national and international recognition
- **Immediate**: *Travel to present research findings and to serve*
- **Long term**: \$\$\$\$. fellowships for long term research here, across U.S. and abroad
- **Long Term**: Publications, CV building, residencies, long- and short range goals



BMC Med Educ. 2021 Nov 1;21(1):556. doi: 10.1186/s12909-021-02989-x

## The impact of medical student research as a discussion topic during the residency interview process

[Kelly Daus<sup>1</sup>](#), [Matthew McEchron<sup>2</sup>](#)

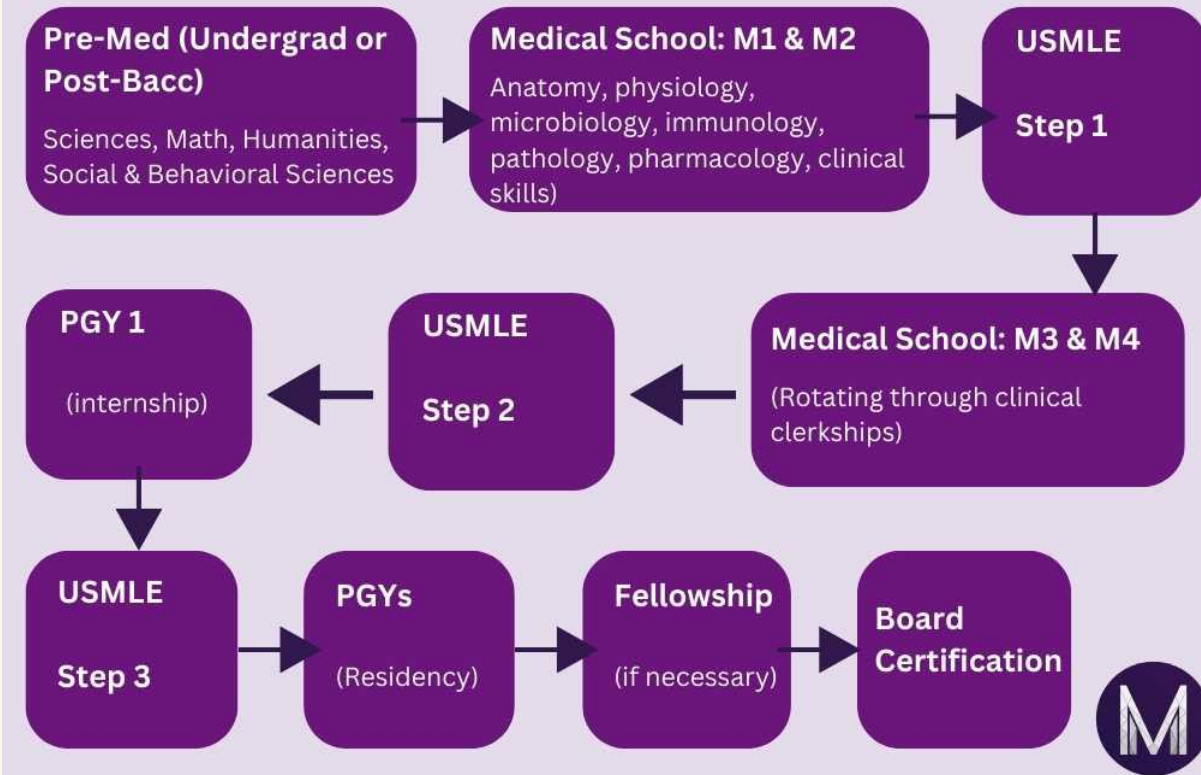
**Background:** Students with a greater number of research experiences are more successful in the National Residency Match Program (NRMP.) As a result, approximately two-thirds of allopathic medical schools have implemented a scholarly research project (SP) as a part of their curriculum. While inclusion of an SP in the medical school curriculum increases research productivity, literature to date has not investigated the frequency with which it is a discussion topic during residency interviews.



# Bottom Line

- AAMC Data shows research productivity + STEP scores = best predictor of advancing to competitive specialties
- Research productivity gives greater options for future choices

## The Path to Becoming a Doctor



<https://www.google.com/>

Images

<https://medicmind.us/blog/usmle-step-2-ck-explained/>

# Myth Busters and Encouragement

Data from the CO 2026, summer 2023

## **I have to do research in the summer between MS1 & MS2.**

- Majority of the graduating UM SOM students did research in MS1 summer.

## **I have to get a research fellowship to fulfill my FRCT requirements.**

- 61% of students received funding, 34% did not receive funding.
- *\*Most who submit quality applications to programs receive funding*

## **I am not competitive enough to receive external funding.**

- 22% of students applied for an externship.
- Of those who applied, 64% were accepted to at least one program.

Type	CO 2026 Sources of Funding
Internal	PRISM (~40 slots)
Internal	Mentor-Funded (varied)
Internal	Alicia and Yaya Fellowship Program (1)
Internal	Shock Trauma Orthopedic Summer Fellowship (4+)
Internal	Rad Onc Summer Fellowship (2)
Internal	UM Scholars (2-6)
Internal	MPower/MDH (2+)
External	NIH Summer Internship Program (varied)
External	American Society of Transplant Surgeons (ASTS, 1)
External	AOA (1)
External	FAER MSARF (Medical Student Anesthesia Research Fellowship (1)
External	G.E.R.M. (Grants for Emerging Researcher/Clinician Mentorship Program Award) (20/yr)
External	Gold Student Summer Fellowship (13/yr)
External	Nth Dimensions Summer Internship Program (>50/yr)
External	PIDS (Pediatric Infectious Diseases Society) (44/yr)
External	RREMS (Rehabilitation Research Experience for Medical Students) (13-15/yr)
External	RSNA (Radiological Society of North America) (10/yr)
External	STRIVE (Short-Term Research in Vision and Eye Health) (4/yr)
External	Winn CIPP (Robert A. Winn Clinical Investigator Pathway Program) (66/yr)
External	Fight for Sight (10-15 Students/yr)



# Two Basic Flavors (Types) of Research Fellowships

## Recruitment/Matching Mechanism

**M4I**, MPower/MDH, UM Scholars, St. Jude, NIDDK, etc.

- Student applies individually
- No research proposal to apply
  - May need to develop one once in program
- Selection based on student's demonstrated/genuine interest in program focus (e.g., infectious diseases, diabetes, etc.)
- Program ***matches*** students and mentors

## Idea Mechanisms

**PRISM**, AOA, IDSA, AATS, etc.

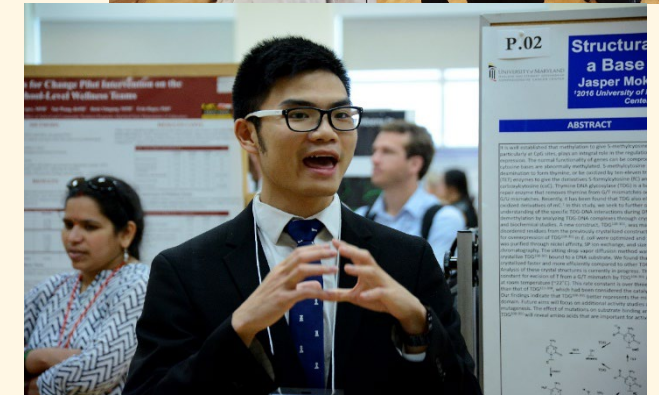
- Team approach – student and mentor
- Student must submit a research proposal
  - Seeks to fund bold and new ideas
  - Can be an extension or variation of mentor's existing research aims
- Selection based on consideration of mentor(s), student, and the quality of proposed project
- Student and mentor get together and develop project ***idea***

# Overview of PRISM Program

- Centerpiece of OSR's Summer Research Training Programs
- 9 Weeks\*, Immersive Experience
- Promotes innovative student/mentor research
- Provides:
- **Interactive seminars by scientists, physician scientists**
  - cover basic, clinical, translational and population-based research
  - Sample Workshop Topics:
    - statistics in research, how to conduct research with goal of writing a report/paper
- **Avg. \$5,000 stipend support for student (Depending on Funding and Number of Slots. Traditionally, 40). 1/3 = Merit**
  - Award level based on overall merit and impact of project
- Student and faculty scholarly and social interactions
- PRISM = program and FRCT = Course. PRISM ≠ FRCT.
  - **However**, rigor and requirements for PRISM readily satisfy FRCT proposal, FRCT scholarly project and final report

# Basic Schedule for PRISM and OSR Summer Programs

- Program Runs May 26 – July 24, 2026
- Orientation: May 26 and May 27
- **Mid-Summer Research Retreat (June 24)\***
  - Conference Panel format
  - 1 selected student each per program presents vignette of research
  - Panel discussion:
    - Practices conference etiquette. Panel and audience learn from each other
  - Keynote presentation over lunch
  - Breakout into roundtable workshops:
    - Academic medicine, admissions, value dual degrees, research in various residencies, physician and scientist and physician/scientist, opportunities at the NIH, surgical research, family medicine research etc. **47 topics and tables in 2025**
- Student Research Forum (July 23 and 24, tentative)
  - PRISM, M4I, UM Undergraduate and Graduate Scholars, Schnaper Interns, IFURPS, National Fellows, and more



# Good Things to Know about PRISM

- Projects Based on NIH's and National Fellowship "Idea" Model
  - Project has underlying hypothesis
    - Seeks not just parallelism but to show cause and effect
  - Project has merit
    - Adds something to scientific knowledge, patient care or medical knowledge
  - Project is timely
    - Hasn't been done before. Is needed, would be useful etc.
  - Project is feasible
    - Can be done in the time proposed and by the team executing it
    - Timeliness
  - Generates or analyzes data to interpret for scientific conclusion
  - Scientifically-testable and reproducible

# PRISM: What Are My Chances?

- Most **(not all)** who apply win either PRISM Award or MERIT\*
  - *\*Budget and, application #*
- Program will work with students for revisions and success
- Work **closely with mentor** team and if non-traditional project, talk over w/ Dr. Carey EARLY
- **Excellent chances for summer fellowships**
- **Applications due in March**
- **Notifications in April**



# OSR Summer 2025 Seminar Speakers



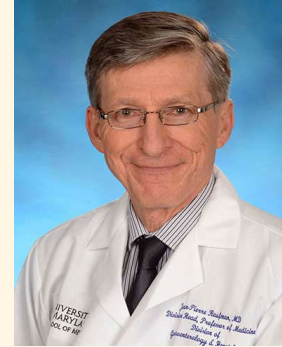
[Elana Fertig, PhD](#)



[Omer Awan, MD, MPH](#)



[Sarah Kattakuzhy, MD](#)



[Jean-Pierre Raufman, MD](#)



[Florence Doo, MD](#)



[Ryan Pearson, PhD](#)



[Irina Burd, MD-PhD](#)



[Reney Henderson, MD,](#)



[Robert Ernst, PhD](#)

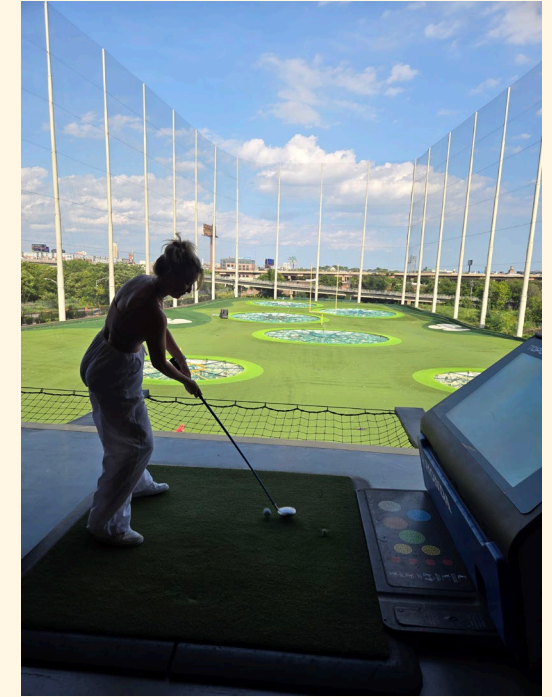


[Rebecca Hall, JD](#)

**THEMES/Expertise:** Bioinformatics in Cancer Research; Radiology and Informatics; Addiction Science and Medicine; Discovery in GI Medicine; Artificial Intelligence; Novel Technologies to Modulate Immunity Responses; Maternal and Fetal Health; Blood Management in Transplant and Anesthesiology, Novel Technologies in Microbe Detection; Intersections of Health and Law



# PRISM Fun



JUSTIN ZHANG	7	144
BAY 314		
LAUREN JACOBS	3	140
BAY 313		
KENNETH TIEU	10	124
BAY 314	6	108

TOPGOLF Final Results	
FINAL LEADERBOARD	
1	Greg C. 312
2	Fiana R. 260
3	Eugene B. 184
4	Deja W. 180
5	Lauren J. 124

LONGEST DRIVE: 10.1 YDS
Eugene B.
YOU'RE PLAYING GREAT.
Deja W.
BETTER LUCK NEXT TIME.
Lauren J.



# OSR Summer Highlights





# PRISM Summer





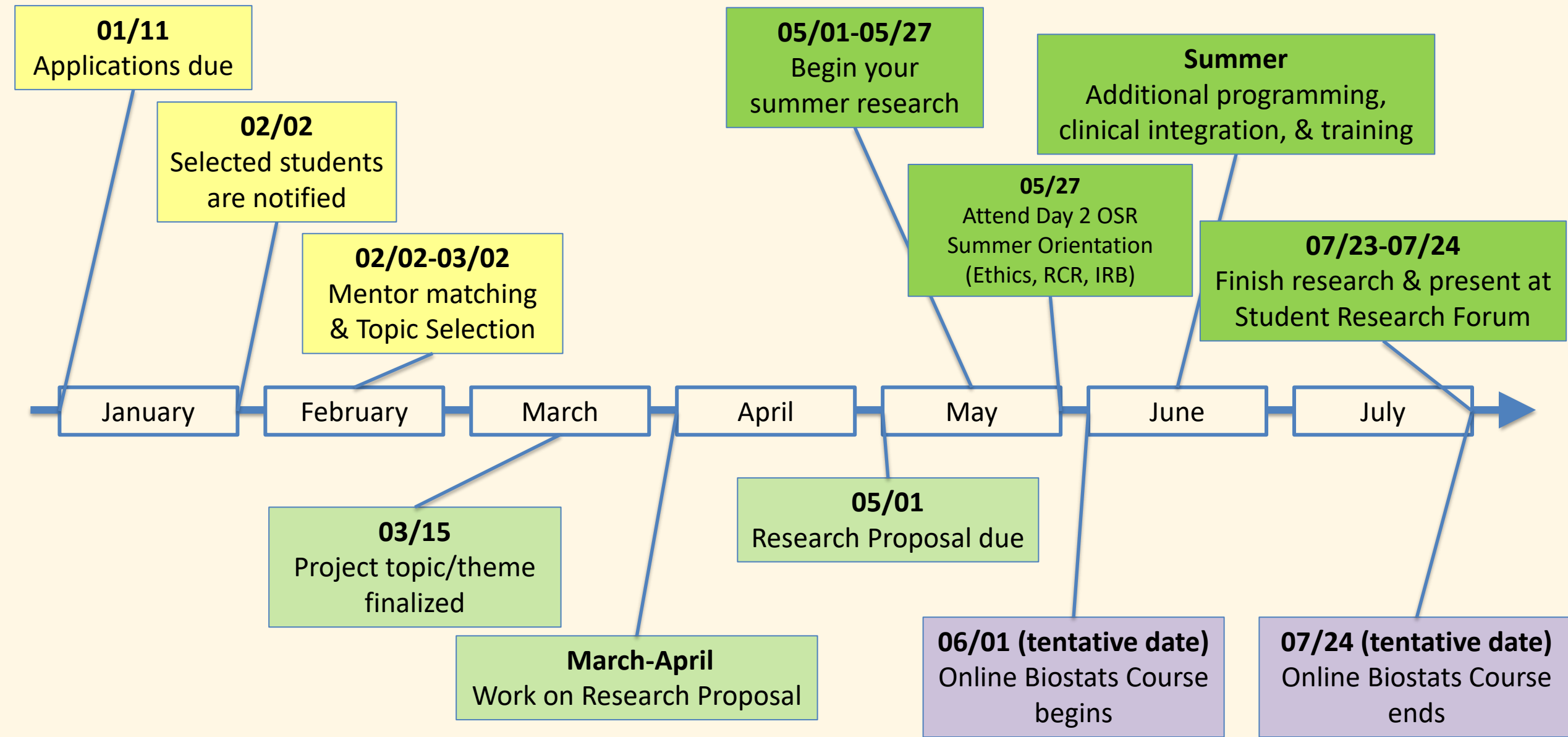
# M4I: Maryland Infection, Immunization, Intervention, and Impact Training Program

## NEW Longitudinal Research Program in Infectious Diseases

- **NIH-funded:** \$6,000 stipend and summer research funding; support for conferences, travel and electives.
- **Requirements & Opportunities**
  - **Applications open Mid-November, Due January 11**
  - Program will help you find a mentor and identify a project
  - **9 weeks of research** (summer 2026), including clinical integration
  - **Biostats course** (asynchronous, summer 2026)
  - **Continued engagement Years 2-4**, including:
    - ✓ Pairing with an ID fellow for clinical exposure
    - ✓ Priority clinical placement in Internal Medicine or Pediatric Infectious Diseases Service
    - ✓ Research and manuscript writing assistance
    - ✓ Mentorship, and career and residency advising
- Can use M4I research to satisfy the FRCT requirements (more details to come)
- For more information, visit [our website](#) or contact:
  - [Dr. Andrea Berry](#) or [Dr. David Riedel](#), Program Leaders
  - [Fiama Romero](#), Program Manager



# M4I: Spring-Summer 2026 Milestones



# M4I: 1<sup>st</sup> Cohort (Summer 2025)

**Paige Bristow**



**Jeffrey Fenn**



**Abigail Li**



**Anna Li**



**Jack Mason**



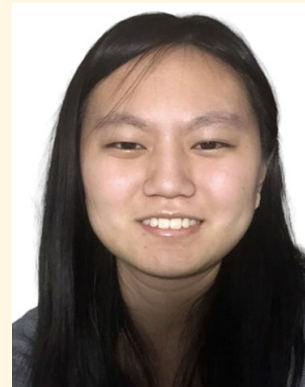
**Robert McLuckey**



**Mary Mae Robinson**



**Isabel Veloso**



**Angela Yang**



**Gabriela Cabrera**



**Gabriel Tobin-Xet**

# Summer 2025

## Project Topics

Malaria infection  
Antibiotic resistance infection control  
multiple sclerosis  
**HIV** Inflammatory Cytokine Responses  
Opioid use disorder  
vaccine targets  
Liver cancer immunotherapy  
**Plasmodium falciparum**  
HIV and maternal mental health

## Other Activities

- Skills Development Sessions
  - Fellows Panel
  - Faculty Panel
  - Journal Clubs
  - Abstract & Stats Workshop
- Clinical shadowing
- Student Research Forum Presentations



## Mentor Departments

Institute of Human Virology  
Epidemiology & Public Health  
Infectious Diseases  
OBGYN  
PediatricsNeurology  
Virology / Pharmacology  
Microbiology and Immunology

# MPower-Funded Opportunities

## UM Scholars at MDH

Maryland Department of Health leaders

## UM Scholars at UMCP

UM College Park faculty

- \$6,500 stipend for medical students
- 400-hour project conducted over a 9- to 10-week period
- Applications open late November/early December
- “Match” Mechanism
- Multiple projects available
- Can apply to multiple projects, participate in one if selected
- Students can participate in OSR summer programming



**UNIVERSITY OF MARYLAND**  
**STRATEGIC PARTNERSHIP**  
**MPowering THE STATE**

[www.mpower.maryland.edu/um-scholars/](http://www.mpower.maryland.edu/um-scholars/)



# Additional Funding Opportunities

- Independent Internal Funding
  - Examples: Orthopedics Summer Program, Terry Watnick PKD research, Rad-Onc Fellowship
  - Some are listed on [OSR website](#)
  - Speak to mentors/departments of interest for more opportunities
- External Funding Sources
  - Many external, competitive funding sources are available
  - [2025-2026 Funding Opportunities](#)
  - Includes list of additional searchable databases
- Read monthly OSR Newsletter (***Research Notes***) for latest opportunities



# Looking forward to Advising, Questions and Your Applications!!



**Greg Carey, PhD**

Associate Professor of Microbiology and Immunology  
Associate Dean for Healthcare and Biomedical Pathway Programs  
Assistant Dean For Student Research and Education  
Executive Director of Student Research and Community Outreach  
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**Contact:**

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410 706 2978



See you at 48<sup>th</sup> Annual MSRD  
See you at PRISM Info Session II – in Jan.

# Upcoming Research Events

## M4I Networking & Information Session

- Tuesday, November 4
- 12-1 PM, Reid Room A
- Network with MS2 students currently in the M4I program.
- Open to – all students interested in learning more about infectious diseases, global health, and immunology research/careers



**Register now!**



UNIVERSITY *of* MARYLAND  
SCHOOL OF MEDICINE



48TH ANNUAL

# MEDICAL STUDENT RESEARCH DAY

***TUESDAY & WEDNESDAY  
NOVEMBER 18TH & 19TH***

***SMC CAMPUS CENTER***

*Register to  
attend by 11/07!*



# 48<sup>th</sup> Annual MSRD 2025 Research Presentation Areas

- 1.Surgery:** Surgical techniques and advancements
- 2.Cardiovascular:** Surgery, epidemiology, and physiology in cardiology
- 3.Neuroscience:** Surgery, radiology, and genetics, interdisciplinary considerations
- 4.Oncology:** Basic oncology, tumor-immunology, onco surgery, and molecular mechanisms of cancer
- 5.Epidemiology:** multiple fields: nutrition, infectious disease, disparities and more
- 6.Bioinformatics:** Computational methods in medicine and biological research.
- 7.Immunology:** Often combined with oncology, microbiology, and ophthalmology, infection and immunity
- 8.Gastroenterology / Hepatology:** Basic GI health, GI/pediatrics and GI/surgery
- 9.Genetics / Genomics:** Paired with oncology, neuroscience, and broader bioinformatics
- 10.Musculoskeletal Systems:** Surgery orhtho, ambulation etc.

# WE VALUE YOUR FEEDBACK!

