

Office of Student Research

UM SOM, Oct 30th, 2024

Info Session 1:

Summer Research Fellowships

PLEASE SIGN IN!



The Office of Student Research



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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 (main focus of this and upcoming info sessions)
 - M4I (new NIH-funded program)
 - MPower: MPower/MDH & UM Scholars at UMCP
 - Additional Funding Opportunities
- Value of both attending 47th 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](#)¹, [Matthew McEchron](#)²

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**

Myth Busters

Data from the CO 2026, summer 2023

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

– 94% of 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.

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
Internal	Mentor-Funded
Internal	Alicia and Yaya Fellowship Program
Internal	Shock Trauma Orthopedic Summer Fellowship
Internal	Rad Onc Summer Fellowship
Internal	UM Scholars
Internal	MPower/MDH
External	NIH Summer Internship Program
External	American Society of Transplant Surgeons (ASTS)
External	AOA
External	FAER MSARF (Medical Student Anesthesia Research Fellowship)
External	G.E.R.M. (Grants for Emerging Researcher/Clinician Mentorship Program Award)
External	Gold Student Summer Fellowship
External	Nth Dimensions Summer Internship Program
External	PIDS (Pediatric Infectious Diseases Society)
External	RREMS (Rehabilitation Research Experience for Medical Students)
External	RSNA (Radiological Society of North America)
External	STRIVE (Short-Term Research in Vision and Eye Health)
External	Winn CIPP (Robert A. Winn Clinical Investigator Pathway Program)

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.

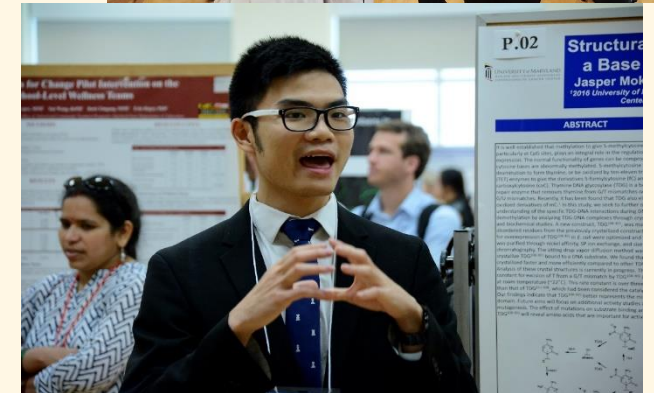
- Team approach – student and mentor
- Student must submit a research proposal
 - Seeks to fund bold and new ideas
 - Can be an extension or variation of mentor's existing research aims
- Selection based on consideration of mentor(s), student, and the quality of proposed project
- Student and mentor 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
 - **Up to \$5,000 stipend support for student (Depending on Funding and Number of Slots. Traditionally, 35/40). 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 27 – July 25, 2025
- Orientation: May 27 and May 28
- **Mid-Summer Research Retreat (June 25)***
 - 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. **35 topics and tables in 2022**
- Student Research Forum (July 24 and 25, tentative)
 - PRISM, UM Undergraduate and Graduate Scholars, SPORT, Schnaper Interns, IFURPS, National Fellows, BCCC 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?

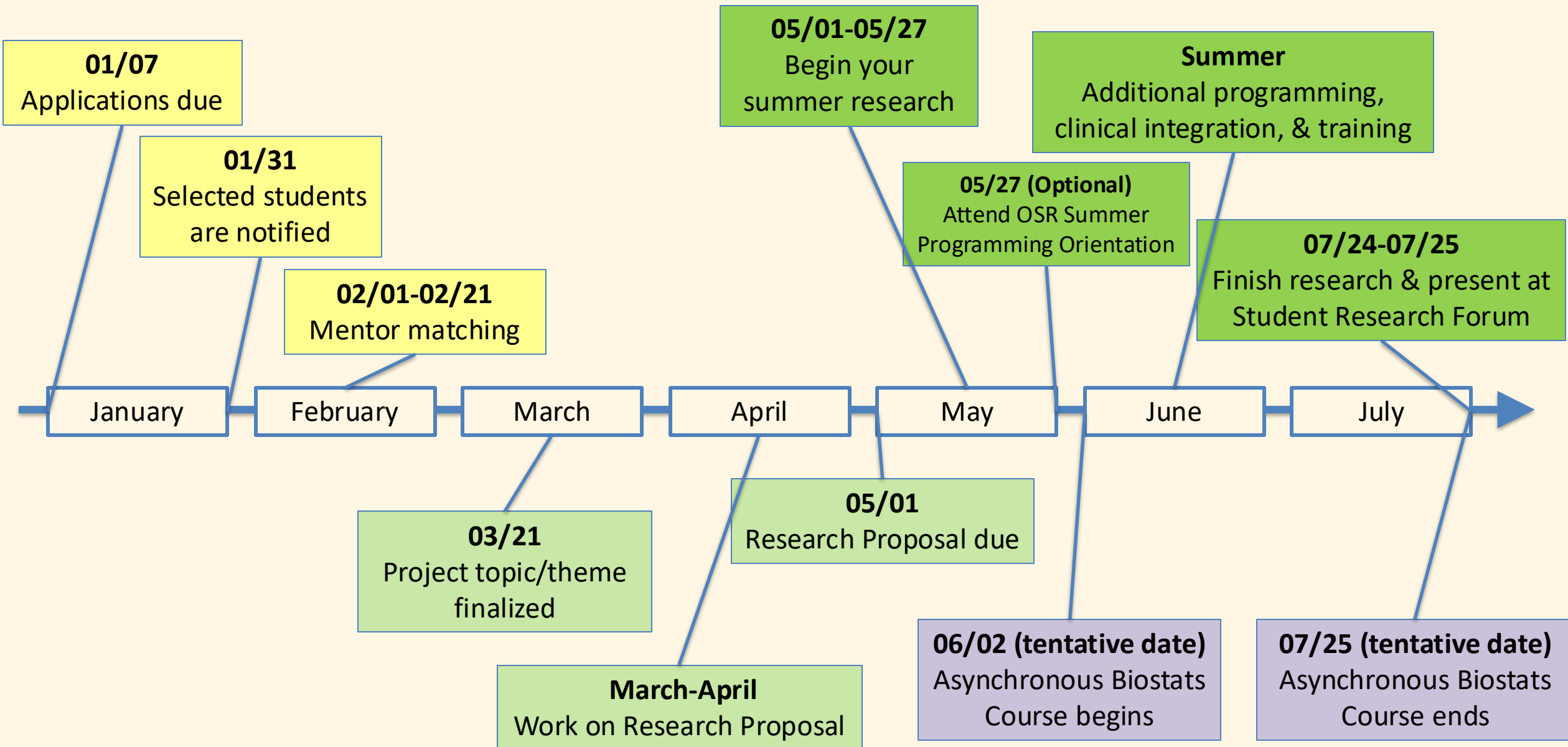
- **Most who apply win either PRISM Award or MERIT***
 - **Budget and, application #*
- Program will work with students for revisions and success
- Work **closely with mentor** team and if non-traditional project, talk over w/ Dr. Carey EARLY
- **Excellent chances for summer fellowships**

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 7**
 - Program will help you find a mentor and identify a project
 - **9 weeks of research** (summer 2025), including clinical integration
 - **Biostats course** (asynchronous, summer 2025)
 - **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. Miriam Laufer](#) or [Dr. David Riedel](#), Program Leaders
 - [Fiama Romero](#), Program Manager

M4I: Spring-Summer 2025 Milestones



MPower-Funded Opportunities

MPower/MDH Program

Maryland Department of Health leaders

UMB to UMCP UM Scholars

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/

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
 - [2024-2025 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

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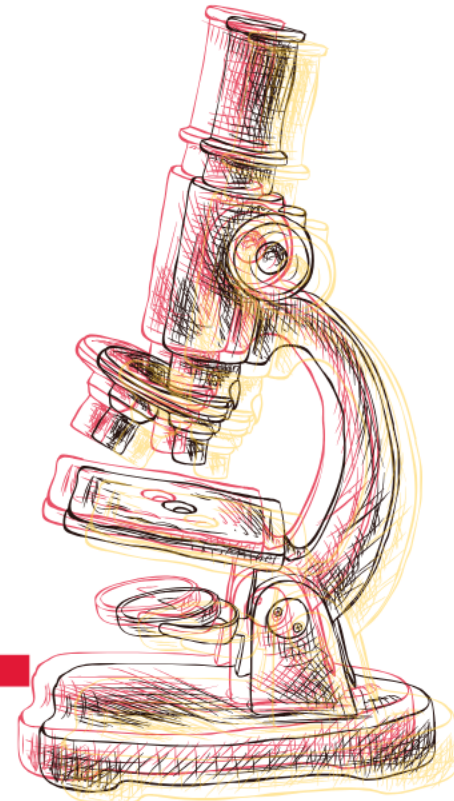
410 706 2978



See you at 47th Annual MSRD
See you at PRISM Info Session II – in Jan.



UNIVERSITY *of* MARYLAND
SCHOOL OF MEDICINE



47TH ANNUAL

MEDICAL STUDENT RESEARCH DAY

***TUESDAY & WEDNESDAY
NOVEMBER 19TH & 20TH***

SMC CAMPUS CENTER

*RSVP here to
attend!*



47th Annual MSRD 2024 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 ortho, ambulation etc.



Dual Degree Meet & Greet

Mon., November 4

12:00-1:30PM

HSRF III | James & Carolyn
Frenkil Seminar Room

JOIN US to:

- Speak with current dual degree students!
- Meet faculty with MD/Masters degrees!
- Learn about degree timelines, application requirements, and more!
- Have lunch, on us!

Consider a dual degree!



REGISTER NOW

WE VALUE YOUR FEEDBACK!

