



Outlook

Research Weekly Newsletter - Jan/29/2026

From Medical Student Research <Medical.Student.Research@dartmouth.edu>**Date** Thu 1/29/2026 10:00 AM**To** GEISEL_2026@LISTSERV.DARTMOUTH.EDU <GEISEL_2026@LISTSERV.DARTMOUTH.EDU>;
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GEISEL SCHOOL OF
MEDICINE**Office of
MEDICAL STUDENT
RESEARCH**

Weekly Newsletter

Jan 29, 2026

The Student Research Office is actively supporting medical students throughout their research journey, serving as a central resource to help navigate onboarding requirements and connect with opportunities across departments. The office regularly shares active research projects and offers guidance on how to get involved.

Students are strongly encouraged to visit the office at **Remsen 230** for any research-related information and to begin their research journey.

Contact: Medical.Student.Research@dartmouth.edu



Dartmouth
GEISEL SCHOOL OF
MEDICINE

**Office of
MEDICAL STUDENT
RESEARCH**



Upcoming event

Co-curricular interdisciplinary seminars

When: Feb 4th | 7:00 AM – 8:00 AM at Chilcott Auditorium

Topic – How to Design a Poster and How to Present It by Dr. Tim Gardner

Career Advising Pulse Check - Planning for M1 Summer & Summer Research Session

When : Feb/9/2026 - 12 pm - 1:30 pm

Where : Kellogg 200



2026 Richard W. Dow Student Research Scholarship in Surgery (For M1)

The Dow Student Scholar Program provides Geisel students with the opportunity to engage in mentored research with a surgery faculty member during the break between **Year 1 and Year 2**.

Interested students should first contact a surgery faculty mentor to discuss a project, then submit a formal application by **February 27, 2026** to **DOSResearch@hitchcock.org**.

Further details, including program information and available projects, can be found at the link below.

<https://geiselmed.dartmouth.edu/student-research/2026-richard-w-dow-student-research-scholarship-in-surgery/>

Interested in doing research in summer 2026?

Explore the **2026 Geisel/DHMC Summer Research Project**

Opportunities here: <https://geiselmed.dartmouth.edu/student-research/2026-geisel-dhmc-summer-research-project-opportunities/>

Career Advising Pulse Check - Planning for M1 Summer & Summer Research Session

When : Feb/9/2026 - 12 pm - 1:30 pm

Where : Kellogg 200

Call for abstract submissions for the 14th Annual Surgical Trainees Advancing Research Symposium (STARS)

Deadline: February 9th , 2026, via email to Parker.R.Fairfield@hitchcock.org

 Call for Abstracts Eligibility: Department of Surgery resident or fellow. Medical students with a mentor in the Department of Surgery may also apply. Type of Research: Basic science, translational, or outcomes. Details: Original work. (Abstracts presented or accepted at a regional or national meeting in Fall 2025 or Winter 2026, that have not been published as a full paper are eligible.) Format: Introduction, Methods, Results, and Conclusion. Abstracts are limited to 300 words. One table or figure is acceptable. Deadline: February 9th, 2026, via email to Parker.R.Fairfield@hitchcock.org Why be a Star? Fame. Glory. Cash. Prizes Supported by the Department Surgery	The 14th Annual Surgical Trainees Advancing Research Symposium (STARS) <i>Keynote Speaker:</i> Keith D. Lillemoe, MD, FACS, MAMSE Surgeon-in-Chief, Emeritus Massachusetts General Hospital W. Gerald Austen Professor of Surgery, Emeritus Harvard Medical School <i>When:</i> Thursday, April 9th, 2026, 5:30-7:00 PM & Friday, April 10th, 2026, 7:00-8:30 AM 
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**The Center for
Global Health Equity**
at Dartmouth

**Interested in working with medically underserved populations
across the globe?**



**Center for Global Health Equity Announces
Co-designed Community-based Internship (CCI)**

2026 CCI Applications Open

****Deadline to Apply: February 16, 2026****

<https://geiselmed.dartmouth.edu/students/programs/global-health-equity/cghe-application/>

What it is?

A funded, interdisciplinary internship that lets students partner with international or domestic sites to advance health-equity research, service, or advocacy work.

Key dates

- **Application deadline:** Feb 16, 2026 (Graduate Students - spring-term applicants—submit by Feb 1, 2026)
- **Internship start window:** June 15–Dec 15, 2026 (must begin at least 3 months after the application deadline of February 16, 2026)

Eligibility & Time Commitments

Funding

- 4 weeks – \$3,200
- 5-6 weeks – \$3,500
- 7-8 weeks – \$4,000

How to apply

Visit the application page for full requirements and the proposal template:

<https://geiselmed.dartmouth.edu/students/programs/global-health-equity/cghe-application/>

****PLEASE NOTE: Not every destination is travel-eligible. Check [Dartmouth's Travel Exception](#) list for 'Graduate Students' to see which locations require an exception request. Even if an exception is granted, the list can change at any time - new countries or regions may be added at any time.****

Questions?

Email Center.for.Health.Equity@dartmouth.edu

FAER
Foundation for Anesthesia
Education and Research

**SPRING 2026
GRANT CYCLE**

Applications Open through February 15, 2026

FAER Grants

Mentored Research Training Grant: FAER.org/MRTG

Research in Education Grant: FAER.org/REG

Research Fellowship Grant: FAER.org/RFG

Transition to Independence Grant: FAER.org/TIG

Co-Sponsored Grant

APSF-FAER Mentored Research Training Grant: FAER.org/APSF

APSF-FAER MRTG Letter of Intent

Submissions Open through: January 1, 2026



AAOS 2026 Medical Student Program



Your Guide to Orthopaedic Surgery as a Career Choice

Tuesday, March 3
10 a.m. – 5 p.m.

Morial Convention Center
New Orleans, LA

Discover how your unique leadership skills can benefit your career in orthopaedic surgery.

The registration fee for the entire AAOS Annual Meeting is only \$75 for AAOS Medical Student Members*!

- | | | | | | |
|---|---------------------------------------|---|----------------------------------|---|--|
| 1 | Apply for Medical Student Membership. | 2 | Register for the Annual Meeting. | 3 | Add the Medical Student Program to your registration (first-come, first-served). |
|---|---------------------------------------|---|----------------------------------|---|--|

*Must be a Medical Student Member to register for the AAOS 2026 Annual Meeting. It is free to join. Visit aaos.org/membership to learn more and join.



AAP / ASCI / APSA
JOINT MEETING

APRIL 17–19 / SWISSOTEL / CHICAGO, IL

SAVE THE DATE

LATE-BREAKING ABSTRACTS NOW BEING ACCEPTED
2026 AAP/ASCI/APSA Joint Meeting Poster Session submission

Submission Deadline Extended: February 13, 2026, at 11:59 PM EST.

<https://the-asci.org/controllers/asci/JmPosterSessionController.php?action=home>

Call for Submissions your work for the **FMEC 2026 Annual Meeting**, taking place **September 24–26, 2026**.

Deadline: Friday, January 30, 2026

Submission link:

<https://www.emailmeform.com/builder/form/12Faa5dZ2pe4RDdXqnm8uhf>



www.fmec.net



Call for Submissions deadline: Friday, January 30, 2026

FMEC 2026 Annual Meeting | September 24-26, 2026
[Harrah's Resort Atlantic City](#)



HMS Visiting Research Internship Program

the Visiting Research Internship Program (VRIP) is an eight-week mentored, summer research program designed to enrich medical and dental students' interest in research and health-related careers, particularly clinical/translational research careers. VRIP is sponsored by Harvard Catalyst and OCCE.

Program Date : Monday, June 1 - Friday, July 24, 2026 (tentative)

More Information : <https://occe.hms.harvard.edu/paths-opportunity/visiting-research-internship-program>

Apply to Visiting Research Internship Program (VRIP)
https://hms.az1.qualtrics.com/jfe/form/SV_e9VJT4s20UCUkzs



2026 American Heart Association Institutional Award for Undergraduate Student Training

This is an institutional award, made to qualified institutions that can offer a meaningful research experience that supports the mission of the American Heart Association to undergraduate college students.

<https://professional.heart.org/en/research-programs/aha-funding-opportunities/institutional-award-for-undergraduate-student-training>

Supporting Research in Sudden Cardiac Arrest

The AHA is committed to supporting new research projects on Sudden Cardiac Arrest across all scientific disciplines (basic, clinical, and population) within any current AHA programs. No additional pre-proposal or proposal materials are necessary outside of individual AHA program criteria; awardees will be designated from the existing applicant pool within each program.

<https://professional.heart.org/en/research-programs/aha-funding-opportunities/tips-for-new-research-proposals>



Cardiovascular Research Training Opportunities for Undergraduate Students – Summer 2026

The **Center for Cardiovascular Research (CCVR)** in the Abigail Wexner Research Institute at Nationwide Children's Hospital conducts innovative, mechanistic-based research to improve therapies and outcomes for infants and children with heart diseases and promote cardiovascular health in children and adults.

Undergraduate students enrolled in colleges and universities across the country interested in exploring careers in medicine, biomedical research and bioengineering in a cutting-edge research environment can experience and support CCVR research firsthand during a 10-week, paid summer research opportunity on the AWRI campus.

The application portal will open in mid-October and will accept applications until **February 6, 2026!**

<https://www.nationwidechildrens.org/research/areas-of-research/center-for-cardiovascular-research/cardiovascular-research-training-opportunities-for-undergraduate-students>

Rising Stars in Science and Medicine Program – Summer 2026

Mass General Brigham is offering its prestigious *Rising Stars in Science and Medicine Program*, an eight-week mentored summer research opportunity for undergraduate rising seniors, seniors, pre-med students, and first-year medical students. Participants will engage in hands-on research in labs across Mass General Brigham and Harvard Medical School, attend professional development workshops, and join networking events with faculty and peers.

Application Deadline: February 1, 2026 (end of day ET).

Students interested in academic medicine, biomedical research, and advancing health equity are encouraged to apply.

For more info and Apply here : :

<https://www.massgeneralbrigham.org/en/education-and-training/academic-development-and-enrichment/rising-stars-science-medicine-program>

Radiation Onc Medical Student Research Fellowship

Geisel medical students interested in pursuing a dedicated research year in Radiation Oncology are invited to apply for the Radiation Oncology Medical Student Research Fellowship. The fellowship provides a \$35,000 grant (including a \$32,000 stipend) and offers structured mentorship, research experience, and career development under the guidance of Dr. Charles R. Thomas, Jr., Chair of the Department of Radiation Oncology and Applied Sciences.

- Duration: 12 months maximum (10 minimum)
- Offered: medical student
- Faculty: Charles R. Thomas, Jr., MD

For more : Learn from <https://geiselmed.dartmouth.edu/student-research/hospital-specialty-specific-research-opportunities/>



NEW ENGLAND STUDENT UROLOGY SYMPOSIUM

At The UConn School of Medicine

MARCH 7 8:00AM - 5:00PM

Join us for a unique opportunity for medical students interested in urology to connect with peers and faculty, explore the specialty, and showcase their research. The day will feature state-of-the-art lectures, interactive faculty panels, hands-on urology surgical skills fair, and both poster and oral presentations.

REGISTER:

Due Feb 16 at 11 pm



<https://medicine.uconn.edu/urology-symposium/>

SUBMIT AN ABSTRACT:

Due Feb 6 at 11 pm



Looking for something else?

To learn about additional ongoing research projects, **visit our website** or **reach out to our office**. <https://geiselmed.dartmouth.edu/student-research>

We're here to help you find opportunities that match your interests and goals.

Upcoming Events

Dartmouth Cancer Center



Dartmouth
Health



Dartmouth
GEISEL SCHOOL OF
MEDICINE

Annual Scientific Retreat

February 17, 2026

Dartmouth Cancer Center Annual Retreat

Register at <https://redcap.dartmouth.edu/surveys/?s=ALEDKKY43NM4A3DR> to reserve your spot for lunch and the keynote address by **Justin Gainor, MD** (Harvard Medical School/MGH). The retreat will feature research presentations, trainee lightning talks, a poster session, and a social reception.

January 20th is the last day to apply to present a Trainee Lightning Talk. Sign up when you register using the link above. February 9th is the last day to submit your poster for the Annual Poster Session.

To get your poster printed for free send a PDF of your correctly sized poster to sharon.e.williamson@dartmouth.edu by February 9th.

Key deadlines: January 20 to apply for a Trainee Lightning Talk and February 9 to submit posters (free printing available if submitted by February 9).

The Geisel School of Medicine Events Calendar

Students are encouraged to check the Events Calendar to stay updated on upcoming research talks and Grand Rounds sessions.

<https://geiselmed.dartmouth.edu/calendar/index.php?y=2026&m=1&v=m>

Student Spotlight



Sophie Skallerud , MD Class of 2027

Sophie Skallerud is an MD candidate in the Class of 2027 with career interests in plastic surgery and general surgery. She is on her seventh year in the Upper Valley, but will always consider herself a Minnesotan. While an undergrad at Dartmouth, she played on the lacrosse team and conducted a plant biology honors thesis on iron regulation in the Guerinot Lab. She spent a year in Boston as a Dartmouth Lombard Fellow at Women's Lunch Place, where she focused on improving mental health resources for the shelter guests. Her favorite memory was leading a trip to the Boston Aquarium. While at Geisel, she has enjoyed working with her peers and the administration as a Class Representative.

Sophie's early research at Geisel focused on sustaining the rural health student pipeline. She and Chelsea Leversedge have presented this work at multiple conferences in New England, earning the Best Poster award at the 2025 Northern NE CO-OP. She has shared her research on Acute Kidney Injury Donor Transplantation at the national level and presented this work at the General Surgery Department's 2025 Surgical Trainee Symposium (STARS). Most recently, she presented a case study on Scleroderma Renal Crisis at Internal Medicine Grand Rounds. She hopes to leverage her broad research experiences to produce research that is multidisciplinary in nature.

Scholarly Manuscripts by Geisel Students

Geisel students continue to drive innovation through research, contributing to peer-reviewed publications across clinical medicine, global health, and more. Their scholarly work reflects a deep commitment to scientific inquiry and advancing patient care. Each year, our students co-author numerous manuscripts, showcasing their passion for discovery and academic excellence. <https://geiselmed.dartmouth.edu/student-research/research-papers-by-geisel-students/>

Students are requested to submit their published manuscripts to be archived in the Student Manuscript section of the website.

Widefield OCTA: Advancing Retinal Imaging and Diagnostics

The expanded visualization of the peripheral retina provided by widefield and ultrawidefield swept-source OCTA is useful for diagnosing and managing many retinal diseases.

SHIVESH H. SHAH • RAJIV M. SASTRY • JOHN B. MILLER, MD

Since its introduction in the mid-2010s, optical coherence tomography angiography (OCTA) has rapidly become a popular tool used by clinicians and researchers for noninvasive diagnosis and management of retinal disorders. Unlike traditional optical coherence tomography (OCT), which provides detailed structured imaging of the retina and choroid, OCTA offers the added capability of visualizing blood flow within retinal and choroidal vasculature.

In more recent years, the development of swept-source (SS) technology and SS-OCTA has allowed great depth of penetration and resolution. Additional improvements in swept-source scanning speeds have allowed for even wider fields of view. Expanded field (EF), widefield (WF), and ultrawidefield (UWF) SS-OCTA capture much larger fields of view, covering between 100° and 220° depending on the specific technology. These extended fields of view allow for the detection of peripheral retinal vascular abnormalities, offering a more comprehensive assessment of retinal pathologies (Figure 1). Here, we aim to discuss

widefield SS-OCTA technology, including its clinical applications, limitations, and future directions.

COMPARATIVE ANALYSIS WITH TRADITIONAL IMAGING MODALITIES

Widefield OCTA (WF OCTA) has certain advantages and drawbacks compared to the traditional retinal imaging modalities of fluorescein angiography (FA) and fundus photography. Fundus photography has long been the gold standard for diabetic retinopathy (DR) screening and evaluation. It is more readily available and easier to use than other imaging modalities for DR, but it can only visualize in 2 dimensions and does not provide retinal blood flow information. FA has grown increasingly more common in the evaluation of advanced stages of DR, particularly with the addition of ultrawidefield FA technology in most retina clinics now. However, FA is more time-consuming and invasive, posing systemic risks to the patient. Diagnostically, FA cannot provide depth-resolved imaging to help in the differentiation of DR lesions.

In contrast, widefield OCTA can provide 3-dimensional, depth-resolved images of retinal and choroidal vasculature while maintaining a low risk profile.^{1,2} Widefield OCTA does not require dye, making it safer for patients with known allergies or systemic illnesses, and can provide more precise and quantitative information about peripheral nonperfusion and neovascularization, which appear more "muddy" in traditional imaging.

CLINICAL APPLICATIONS IN RETINAL DISEASES

Widefield OCTA has proven to be a valuable diagnostic tool for various retinal diseases. In DR, WF OCTA accurately detects vascular abnormalities, particularly peripheral nonperfused areas (NPAs), which are key indicators of disease severity and progression.³ Studies also indicate that WF OCTA matches or outperforms traditional imaging



Shivesh H. Shah, BA, is a fourth-year medical student at Dartmouth College in Hanover, New Hampshire, engaged in a dedicated research year at the Harvard Retinal Imaging Laboratory in Boston.



Rajiv M. Sastry, BA, is a graduate student at Harvard University and a member of the research team at the Harvard Retinal Imaging Laboratory.



John B. Miller, MD, is an assistant professor of ophthalmology at Massachusetts Eye and Ear of Harvard Medical School in Boston and director of the Harvard Retinal Imaging Laboratory. He reports consultancy to Alcon and Zeiss. He can be reached at john_miller@meel.harvard.edu.

RETINALPHYSICIAN.COM | JANUARY/FEBRUARY 2025 11

GMSJ

GMSJ is a student-led publication dedicated to showcasing the research, insights, and perspectives of medical students. It offers a hands-on opportunity to gain

experience in academic publishing, including research dissemination, peer review, and scholarly writing—valuable skills for future careers in academic medicine.

We look forward to reviewing your work and celebrating your contributions to scholarship at Dartmouth!

Read GMSJ's first editorial publication :

Designing and Launching a Student-Led Medical Journal: Structure and Early Implementation of the Graduate Medical Scholars Journal (GMSJ)

<https://gmscholars.com/index.php/gmsj/article/view/inauguralissueNo1>

The Geisel Medical Student Journal (GMSJ) is pleased to announce the publication of **Vol. 1, No. S1 (2025): Special Issue — 2025 Geisel Research Poster Night**.

This special issue highlights outstanding student research presented at 2025 year's Poster Night, showcasing innovative projects, scholarly excellence, and the depth of scientific inquiry within our community.

Learn more and explore the journal:

<https://gmscholars.com/index.php/gmsj/index>



Datasets for Research

Multiple datasets are available for use to perform clinical and population-based research. These datasets can be used by researchers to answer specific questions related to population.

<https://geiselmed.dartmouth.edu/student-research/datasets-for-research/>

Grant Funding for Research

GrantForward is a search engine that the Dartmouth College grants office has had a contract with for years.

Atom Grants is a grants database but uses DeepAI to auto-match grant opportunities to student/researcher interests and background.



DH Academic Scholar Year Opportunities

Some Geisel students choose to take an additional year to engage in scholarly work within a department or section at Dartmouth-Hitchcock (DH) or The Dartmouth Institute (TDI).

More information:

<https://geiselmed.dartmouth.edu/student-research/hospital-specialty-specific-research-opportunities/>



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