Conducting research while in medical school
2022-2023*

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Summer research opportunities between L1-L2

- LSUHSC Summer Research Internship Program
  - Paid internship for 8 weeks
    https://www.medschool.lsuhsc.edu/genetics/summer_med_students.aspx

- Research Elective MCLIN198 (Summer)
  - Unpaid, more flexible hours, receive course credit

- Paid opportunities outside LSUHSC
  (e.g., NIH, Diversity in Clinical Trials Program funded by Bristol Myers Squibb)
Experimental Design & Analysis
Basic principles of experimental design and biostatistics for first-year medical students

Elective Course
1 Hour – Graded Credit

Data Collection & Organization
Data Analysis & Basic Statistics
Present & Interpret Graphical Data
Strong Experimental Design
Preclinical & Clinical Research

Become Equipped with Essential Skills
in Preparation for Competitive
Research Internships & Residencies

NIH T35 Summer Alcohol
Research Internship (2023)
Recommended for Future
Physician-Scientists

Stephanie Lee – L2
NIH T35 Fellow

PHYSIO 110 – Spring 2023
Scott Edwards, PhD
Physiology - MEB 7208
sedwa5@lsuhsc.edu
Text: 619-241-3380
L2-L4 Continuing your research - at LSUHSC

- Research electives
  - Registration for MCLIN per each semester of research

- Honors program
  - Apply in August for September acceptance
  - Present yearly progress report
  - Yearly presentation at poster session
  - Presentation at national conferences
  - Publication submission by graduation
  - Receive Honors in Research recognition during graduation and in transcript

- Longitudinal selective
  - Contact Dr. Catherine Hebert

Honors Program student Dr. Charity Sylvester at the American Association of Cancer Research (AACR) National Conference
Continuing your research L2-L4

Following the research many students:

- Maintain contact with mentors, laboratory personnel, and other interns
- Receive letters of references/recommendations
- Publish in scientific or medical journals
- Present at national conferences
L1/L2 Summer programs outside LSUHSC (part 1)*

- https://diversityinclinicaltrials.org/application-information-1#efc2ee96-11c3-42c4-982d-7068ba983e3e
- https://www.afar.org/grants/mstar
- https://vascular.org/svs-foundation/programs-and-awards/student-research-fellowship-0
- https://www.hematology.org/awards/medical-student/honors-award
- https://www.hematology.org/awards/medical-student/minority-medical-student-award-program
- https://www.alphaomegaalpha.org/programs/carolyn-l-kuckein-student-research-fellowship/
- https://www.nref.org/en/Research/Medical-Student-Fellowships
- https://www.abta.org/medical-student-summer-fellowships/
- https://www.mdanderson.org/education-training/degrees-programs/summer-research-programs/first-year-medical-student-program.html

* Even if funded by outside sources, some research projects can be done at LSUHSC. Refer to their websites for details.
L1/L2 Summer programs outside LSUHSC (part 2)*

- https://csnsonline.org/fellowship_student.php
- https://www.endocrine.org/awards/research-experiences-for-graduate-and-medical-students
- https://nmfonline.org/scholarships-programs/programs-portfolio-overview/
- https://case.edu/medicine/education/undergraduate-education/undergraduate-summer-research/heart-lung-and-blood-hlb-summer-research-program
- https://www.stjude.org/education-training/predoctoral-training/internships/pediatric-oncology-education-poe-program.html#f0a9d1297ad478f0999c1db9c4e7d4b53c72ee36d2726316aebea34210665d79=2

* Even if funded by outside sources, some research projects can be done at LSUHSC. Refer to their websites for details.
L1/L2 Summer programs outside LSUHSC (part 3)*

- https://www.astro.org/Patient-Care-and-Research/Research/Funding-Opportunities/ASTRO-Medical-Student-Fellowship-Award
- https://www.childrensmercy.org/departments-and-clinics/orthopedics/summer-scholarship-program/
- https://www.medschool.umaryland.edu/sport/
- https://www.vumc.org/diabetescenter/srtp
- https://www.feinberg.northwestern.edu/sites/pmr/education/medical-students/summer-externship.html
- https://siteman.wustl.edu/research/training/opportunities/graduateprograms/summer/
- https://crtc.wustl.edu/programs/predoctoral/tl1predoc/summer-visiting-program-scholarship/
- https://winnawards.smapply.io/

* Even if funded by outside sources, some research projects can be done at LSUHSC. Refer to their websites for details.
L2/L3 or L3/L4 Year-long programs outside LSUHSC

- **NIH Medical Scholars Program**
  - [https://clinicalcenter.nih.gov/training/mrsp/](https://clinicalcenter.nih.gov/training/mrsp/)
  - Annual stipend $41,000

- **Sarnoff Cardiovascular Research Fellowship**
  - [https://www.sarnofffoundation.org/page/Fellowship_Info](https://www.sarnofffoundation.org/page/Fellowship_Info)
  - Annual stipend $35,000, up to $8,000 for travel

- **Center for Clinical and Translational Science (CCTS)**
  - [https://www.uab.edu/ccts/training-academy/research-fellowships/tl1](https://www.uab.edu/ccts/training-academy/research-fellowships/tl1)
  - Annual stipend $25,836 plus $1,500 in travel

- **Diversity in Research Program, National Medical Fellowships and scholarships**
  - [https://nmfonline.org/scholarships-programs/programs-portfolio-overview/](https://nmfonline.org/scholarships-programs/programs-portfolio-overview/)

- **Physician Scientist Support Foundation (PSSF) Medical Scholars Research Fellowship**; only one per institution, needs to be nominated by the dean
  - [https://www.thepssf.org/msrf/](https://www.thepssf.org/msrf/)
  - Annual stipend $42,000 plus $8,000 for health insurance and travel
NIH Medical Scholars Program

- https://clinicalcenter.nih.gov/training/mrsp/
- Annual stipend $41,000
- Dr. Layne Raborn (2020-2021 participant)
  - Contact info: laynenr123@gmail.com
- Victoria Huynh (2021-2022 participant)
  - Contact info: vhuy2@lsuhsc.edu
Sarnoff Cardiovascular Research Fellowship

2021-22 Sarnoff Fellows

Benjamin Bonner
Medical School: Louisiana State University Health Sciences, New Orleans
Sponsor: Kurt Varner, MD
Host Institution: Massachusetts General Hospital
Preceptor: Christopher Nguyen, MD

- Annual stipend $35,000, up to $8,000 for travel
  https://www.sarnofffoundation.org/page/Fellowship_Info
- Current L3 Ben Bonner (2021-2022 participant)
- Contact info: bbonn4@lsuhsc.edu
Center for Clinical and Translational Science (CCTS)

- [https://www.uab.edu/ccts/training-academy/research-fellowships/tl1](https://www.uab.edu/ccts/training-academy/research-fellowships/tl1)
- Deadline is every November.

- Annual stipend $25,836 plus $1,500 in travel

- Jake Dorion (2022-2023 participant)

- Contact info: jdoir4@lsuhsc.edu
Diversity in Research Program, National Medical Fellowships and scholarships

► https://nmfonline.org/scholarships-programs/programs-portfolio-overview/

► Scholarship, Service, and Research Opportunities deadlines are later in the spring semester. Please be on the lookout for deadlines.

► https://nmfonline.org/scholarships-programs/service-learning-programs/fare-diversity-scholar-program/

► https://nmfonline.org/scholarships-programs/service-learning-programs/jj-nmf-aim-scholarship

► https://nmfonline.org/scholarships-programs/service-learning-programs/pclp/
Physician Scientist Support Foundation (PSSF)
Medical Scholars Research Fellowship

► One year program.
► Research can be in LSUHSC or outside institution.
► One applicant per institution.
► Needs to be nominated by the dean.
► Let Dr. Tsien and Dr. Lazarus if you are interested in applying to this program ASAP so we can nominate you.
  ► https://www.thepssf.org/msrf/
  ► Annual stipend $42,000 plus $8,000 for health insurance and travel

Min Lee, Program Officer
Medical Scholars Research Fellowship
Physician-Scientist Support Foundation
P: 703-409-0884
W: www.thepssf.org E: MinLee@thepssf.org
Additional L2/L3 or L3/L4 Year-long programs outside LSUHSC

- https://crtc.wustl.edu/programs/predoctoral/tl1predoc/
- https://www.niehs.nih.gov/careers/research/med-students/index.cfm
- https://www.sarnofffoundation.org/page/Fellowship_Info
- https://clinicalcenter.nih.gov/training/mrsp
- https://www.hematology.org/awards/medical-student/physician-scientist-award
- https://vascular.org/trainees-students/training/research-opportunities/william-h-pearce-md-vascular-surgery-student
- https://nmfonline.org/scholarships-programs/programs-portfolio-overview/
- https://www.chop.edu/pages/benjamin-fox-orthopaedic-research-scholar-award
- https://oto.wustl.edu/education/medical-students/t32-predoctoral-training-program/
- https://keck.usc.edu/otolaryngology/training-education/medical-student-education/clinician-scientist-training-program-for-medical-students
Questions?

- Dr. Fern Tsien fmille@lsuhsc.edu
- Dr. Cathy Lazarus claza1@lsuhsc.edu