

Conducting research while in medical school 2022-2023*

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Updated 1/6/2023

Summer research opportunities between L1-L2

- LSUHSC Summer Research Internship Program
 - Paid internship for 8 weeks
https://www.medschool.lsuhschool.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

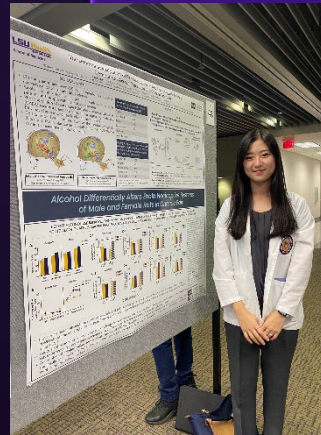
Elective Course
1 Hour – Graded Credit

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



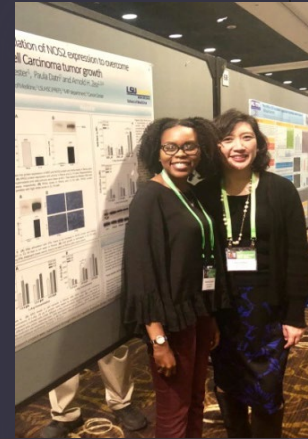
Stephanie Lee – L2
NIH T35 Fellow

LSU Health
NEW ORLEANS

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.nyam.org/fellows-grants/grants-awards/student-grants/david-e-rogers-student-fellowship-award/>
- ▶ <https://www.endocrine.org/awards/research-experiences-for-graduate-and-medical-students>
- ▶ <file:///C:/Users/fmille/Downloads/FAER-MSARF-Summer-Program-Information-2023.pdf>
- ▶ <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.gold-foundation.org/programs/student-summer-fellowships/how-to-apply/>
- ▶ <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/graduate/programs/summer/>
- ▶ <https://crtc.wustl.edu/programs/predoctoral/tl1predoc/summer-visiting-program-scholarship/>
- ▶ <https://winnawards.smapply.io/>

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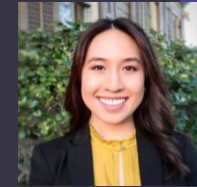
L2/L3 or L3/L4 Year-long programs outside LSUHSC

▶ NIH Medical Scholars Program

- ▶ <https://clinicalcenter.nih.gov/training/mrsp/>
- ▶ Annual stipend \$41,000



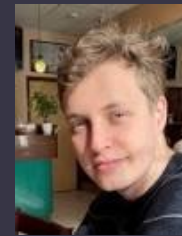
Dr. Layne Raborn



Victoria Huynh

▶ Sarnoff Cardiovascular Research Fellowship

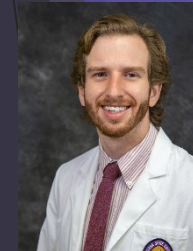
- ▶ https://www.sarnofffoundation.org/page/Fellowship_Info
- ▶ Annual stipend \$35,000, up to \$8,000 for travel



Ben Bonner

▶ Center for Clinical and Translational Science (CCTS)

- ▶ <https://www.uab.edu/ccts/training-academy/research-fellowships/tl1>
- ▶ Annual stipend \$25,836 plus \$1,500 in travel



Jake Dorion

▶ Diversity in Research Program, National Medical Fellowships and scholarships

- ▶ <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

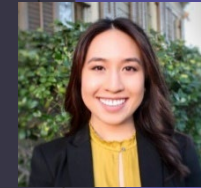
- ▶ <https://www.thepssf.org/msrf/>
- ▶ Annual stipend \$42,000 plus \$8,000 for health insurance and travel

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: vhuyen2@lsuhsc.edu



Dr. Layne Raborn



Victoria Huynh



Sarnoff Cardiovascular Research Fellowship

2021-22 Sarnoff Fellows



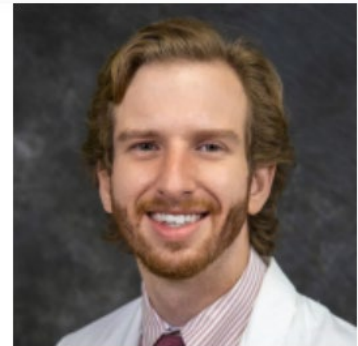
Benjamin Bonner

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>
- ▶ Deadline is every November.
- ▶ Annual stipend \$25,836 plus \$1,500 in travel
- ▶ Jake Dorion (2022-2023 participant)
- ▶ Contact info: jdoir4@lsuhsc.edu



Jake Doiron

LSU Health Sciences Center
School of Medicine
Pharmacology and
Experimental Therapeutics

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://www.hopkinsmedicine.org/orthopaedic-surgery/education/fellowships/poggi-peds-fellowship.html>
- ▶ <https://www.rpbusa.org/rpb/grants-and-research/grants/grants-for-individuals/medical-student-fellowship/>
- ▶ <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