UPSTATE MEDICAL UNIVERSITY

UPSTATE MEDICAL UNIVERSITY | Medical Research for Students
COLLEGE OF MEDICINE
The Office of Research for Medical Students

2026 NCOM Summer Research Fellowship Application

Dr. Dimitra Bourboulia
The Office of Research for Medical Students
Meds4Research@upstate.edu

December 3rd, 2025 12-1pm
Virtual Meeting
https://upstate.zoom.us/j/99974502286

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COLLEGE OF MEDICINE
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Important Dates

Call for Applications	Friday, December 12th
Applications Due	Friday, February 6th
Students Informed of Decisions	Friday, April 3rd
*Fellowship 8-wk Start and End Dates Between May-Aug** *2 weeks early start may take place during Fall and Spring Semesters (2025-2026)*	Determined by you and your mentor

SUNY Upstate Norton College of Medicine
2025-2026 Student Summer Research Fellowship Application
Cover Sheet

Student Applicant

NAME:__
CAMPUS ADDRESS:
CAMPUS PHONE:
EMAIL:
****

Upstate Faculty Mentor

NAME:
DEPARTMENT:
TITLE / RANK:
Contact pref.:
Tel:
EMAIL:
****

Research Project

Title:_
Site:
Project Period (add approx. dates):
From:
To:
Required Compliance: _____
In effect: _____
Date: _____
Number: _____
Pending*: _____

IRB _____ IBC_____ CRU_____ CHUA_____

** Fellowships will not be approved without submission of compliance documents by 5/15/2026. Start this process early on!*

Upstate Faculty signature: _____Date_____

Upstate Student signature: _____ _____Date_____

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SUNY Upstate Norton College of Medicine
2025-2026 Student Summer Research Fellowship Application
GUIDELINES

Purpose/expectations: The purpose of this program is to offer medical students an invaluable opportunity to gain research experience working with an Upstate Faculty during the summer recess. Students who are awarded the fellowship are expected to participate in an orientation and, following the completion of the program, they will produce an evaluation and final report summarizing their research.

Additionally, awarded students are required to produce a poster summarizing their summer research and must apply to present their research at both the annual Charles R. Ross Memorial Student Research Day and to a specific, relevant research conference based on your research. This fellowship needs to be acknowledged in any publication or poster presentation as support towards completion of the specific research.

Eligibility: College of Medicine MS1 and students in the MPH Program who have an interest in research are eligible to apply. Prior to initiation of project, student and the Upstate Faculty mentor must have successfully completed CITI Responsible Conduct of Research and FCOI courses. In the event of being selected for more than one award, you will have to choose one opportunity for the summer. **The fellowship will take place over the course of 8 weeks. Up to a total of 2 weeks may be completed prior to the start of summer recess during the Fall and Spring semester, given faculty approval**. Earlier start has to be agreed between mentor and student. This arrangement needs to be clearly discussed in the application (both in student and faculty letters, see #2 and #5 below). The research project timeline has to clearly state tasks to be performed on a weekly basis.

Awards: Each successful fellow will receive a stipend of $3,500 for a summer research experience: In conjunction with the Upstate Cancer Center, at least 4 of the 12 awarded summer research fellowships will be awarded to cancer-related research. Awards cannot be used for any other purpose, such as materials or supplies or to pay students who will be receiving a SUNY Upstate paycheck from another source during the fellowship period.

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The Office of Research for Medical Students

Application:

1. Student Summer Research Application Cover Sheet

2. **A letter from the student** describing a) any previous research experience and giving an indication of how the proposed research will contribute to his/her career development and plans to continue research, b) Include statement that there is an agreement between the student and the mentor for earlier start. This arrangement needs to be clearly discussed in the application (both in student and faculty letters). c) The research project timeline has to clearly state tasks to be performed on a weekly basis.

3. **A brief research proposal (1-2 pages)** written by the student in collaboration with the faculty mentor. The proposal should include a brief statement of research aims, overall significance, summary of the techniques to be used, timeline and a plan for analysis of data, and a statement explaining how this research proposal fits into the PIs larger research program. Citations may (or not) be included in a separate page.

PLEASE NOTE: Fellowship final approval is contingent on documentation of
a. pending compliances and
b. student's evidence of good status and absence of deficiencies that need to be remediated during the summer. These documents will be provided by Undergraduate Medical Education Office.

4. **The student's curriculum vitae or resume.**

5. **A letter from the Up mentor indicating:**

a. a description of current research activities and the source(s) of funds to carry out that research;
b. a statement that funds are available for materials and supplies, including animals, to enable the student to carry out the research project, description of current funding sources.
c. a statement that the mentor will be on campus and/or working remotely on this project during the summer of 2026 including plans for supervision of the student's work on the research project.
d. a statement that there is an agreement between the student and the mentor for earlier start. This arrangement needs to be clearly discussed in the application (both in student and faculty letters). The research project timeline has to clearly state tasks to be performed on a weekly basis.
e. a description of training opportunities for the student (e.g. research techniques to be learned, opportunities to publish and/or present findings, opportunities to attend project team meetings, journal clubs, etc.)
f. if the project involves human and/or animal subjects, radiation, or biohazards, a statement that the necessary approvals from IRB, CHUA, IBC, etc., are in place or will be in place by 5/19/2026 and provide the appropriate protocol or license number on the application face sheet.

6. **The faculty member's NIH Biosketch or cv.**

PLEASE NOTE: Fellowship final approval is contingent on documentation of pending compliances and student's evidence of good status and absence of deficiencies that need to be remediated during the summer. These documents will be provided by the UME Curriculum Office.

Submit the full package to Meds4Research@upstate.edu FAO: Ms. Katie Stuenzi.

Important Dates:
Call for Applications – Friday December 12th, 2025
Applications Due – Friday February 6th, 2026
Decisions announced – Friday April 3rd, 2026

2026 NCOM Summer Research Fellowship

Applications are due 4 PM, Friday, February 6th 2026

To apply, students must submit, as one PDF, their completed application to Meds4Research@upstate.edu (Katie Stuenzi).

Application:

1. Student Summer Research Application Cover Sheet

Application:

1. Student Summer Research Application *Cover Sheet.*

SUNY Upstate Norton College of Medicine
2025-2026 Student Summer Research Fellowship Application
Cover Sheet

Student Applicant

NAME:__
CAMPUS ADDRESS:
CAMPUS PHONE:
EMAIL:

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Upstate Faculty Mentor

NAME:
DEPARTMENT:
TITLE / RANK:
Contact pref.:
Tel:
EMAIL:

****

Research Project

Title:_
Site:
Project Period (add approx. dates):
From:
To:
Required Compliance: _____
In effect: _____
Date: _____
Number: _____
Pending*: _____

IRB _____ IBC_____ CRU_____ CHUA_____

** Fellowships will not be approved without submission of compliance documents by 5/15/2026. Start this process early on!*

Upstate Faculty signature: _____Date_____

Upstate Student signature: _____ _____Date_____

2. **A letter from the student** describing a) any previous research experience and giving an indication of how the proposed research will contribute to his/her career development and plans to continue research, b) Include statement that there is an agreement between the student and the mentor for earlier start. This arrangement needs to be clearly discussed in the application (both in student and faculty letters). c) The research project timeline has to clearly state tasks to be performed on a weekly basis.

Application:

2. **A letter from the student**

FIRST AND LAST NAME
College of Medicine Class of XXXX
SUNY Upstate Medical University

Date xx/xx/xxxx

Dimitra Bourboulia, PhD
Assistant Dean for UME and GME Research
Director, Office of Research for Medical Students
c/o Kathryn Stuenzi

Re: 2025-2026 NCOM Summer Research Medical Student Fellowship Application

Dear Research Administration and Review Committee,

Paragraph 1: BACKGROUND

- Early thoughts or events that inspired you to follow medical profession
- What parts of Health Sciences interested you the most
- Prior involvement in any kind on research activities (if any)

Paragraph 2:DETAILS
if it applies to you:

- describe some detailed experience on prior research. mention any publications and/or presentations
- impact of your previous research experience on your decision to continue research
- what quality or skill you have that qualifies you the most to do this project
- how will this project contribute to your career development.

Paragraph 4

- current research project, goals, impact on patients/ new knowledge
- agreement between you and your mentor of earlier start (2 weeks can be completed in the Fall/Spring semesters).
- That you have already discussed and will provide details of the project timeline.

Sincerely,

SIGNATURE

your name

2026 Summer Research Fellowship

4. **The student's curriculum vitae or resume.**

5. **A letter from the Up mentor indicating:**

a. a description of current research activities and the source(s) of funds to carry out that research;
b. a statement that funds are available for materials and supplies, including animals, to enable the student to carry out the research project, description of current funding sources.
c. a statement that the mentor will be on campus and/or working remotely on this project during the summer of 2026 including plans for supervision of the student's work on the research project.
d. a statement that there is an agreement between the student and the mentor for earlier start. This arrangement needs to be clearly discussed in the application (both in student and faculty letters). The research project timeline has to clearly state tasks to be performed on a weekly basis.
e. a description of training opportunities for the student (e.g. research techniques to be learned, opportunities to publish and/or present findings, opportunities to attend project team meetings, journal clubs, etc.)
f. if the project involves human and/or animal subjects, radiation, or biohazards, a statement that the necessary approvals from IRB, CHUA, IBC, etc., are in place or will be in place by 5/19/2026 and provide the appropriate protocol or license number on the application face sheet.

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Summer Research Fellowship Application- Proposal

A brief research proposal (1-2 pages) written by the student in collaboration with the faculty mentor. The proposal should include a brief statement of research aims, overall significance, summary of the techniques to be used, timeline and a plan for analysis of data, and a statement explaining how this research proposal fits into the PIs larger research program. Citations may (or not) be included in a separate page.

Follow the guidelines otherwise the application will be returned back to you!

Application: 1-2 pages

3. A brief *research proposal* (1-2 pages) written by the student in collaboration with the faculty mentor.

Background: 1/3 of page; include references in a separate page if you need to.

Rationale and hypothesis:

Research aims (2 or 3max**):**

- aim 1
- aim 2
- aim 3

Methods/Techniques to be used for:

- Aim 1
- Aim 2
- Aim 3

Overall significance:

How your proposed work will move the field forward

Timeline: (describe what part you will be doing during Fall/Spring semester)

- **Week 1-2** (cell culture)
- **Week 3-4**
- **Week 5-7**
- **Week 8 (data analysis)**

Describe how you will divide your time.

Integration into long term PI research goals

References (references can be on a separate page)

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Background paragraph

- Opening sentence
  - Introduce the subject
  - Hook the reviewer
- A factual statement – what we know
  - The reviewers will understand the topic
  - Previous data or data from the lab
  - Cite few references
- Gap or lack of knowledge
  - State what is not yet known
- What is the need
  - What needs to be done to solve the problem
- What will happen if we do nothing about the problem
  - State the potential consequences

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Rationale and hypothesis

- This paragraph provides your solution to the problem

- *State the objective* of your research.

To determine …

- *State the hypothesis* of your project. Can be tested. You will test it by doing the proposed research.

- *State the rationale* (basically this is a sentence where you will state that your results will help avoiding the consequences if the problem is not solved).

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Specific Aims

- 2 or 3. Can be completed in 8 weeks.
- You are testing the hypothesis with these aims
- Aims are written as **Why** not as **What**
- Key words: Determine, identify, Elucidate
- Each Aim functions independently

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Methods/Techniques to be used

- Separately for each aim
- Briefly Describe the methods you will use
- State if a technique/method is routinely used by the mentor
- State if your mentor provides you with the necessary support; tools are available
- State the statistical program if it is needed for your analysis.

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Overall significance and payoff

- State the expected outcomes (eg. Upon completion…
- How do you expect your results to move the field forward
- How your work will add to the current knowledge
- State the positive impact of your research in the field

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Timeline:

describe what part you will be doing during the Fall/Spring semester

- **Week 1-2** (cell culture)
- **Week 3-4**
- **Week 5-7**
- **Week 8 (data analysis)**

- **Describe the process.**

- **Week 1:** train in cell culture, discussions with mentor
- **Week 2** : eg take measurements from controls
- **Week 3**: eg take measurements from treated samples
- **Week 4**: Repeat to acquire independent measurement/replicates
- Analysis/statistics

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Integration into long term PI research goals

A brief summary of how this work integrated with Current research theme of the PI

REFERENCES

UP TO 10

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PROJECTS EXAMPLES FROM PREVIOUS YEARS

Summer Fellowship PROJECTS 2019

Fellow	Mentor	Type of Research	Department	Project
Alyssa Purdy;	Andrea Shaw	Epidemiological/Clinical	Medicine/Global Health	An Evaluation of the Utilization of GeneXpert for Tuberculosis Diagnosis
Benjamin (Ben) Jung;	William Brunken Reyna Martiez-DeLuna	Basic	Ophthalmology	The role of b2- and g3-containing laminins in development of the intrinsically photosensitive ganglion cell mosaic array
Benjamin (Ben) Kaminski;	Peter Calvert	Basic	Ophthalmology	Quantifying Rod Photoreceptor Disc Membrane Disorganization Through Analysis of Rhodopsin Polarity
Brandon Zaffuto;	Ruth Weinstock	Epidemiological/Clinical	Endocrinology, Diabetes and Metabolism	Glycemic Outcomes after Identification of Depression in Adults with Type 1 Diabetes
Casey Mohrien;	Andrea Shaw	Epidemiological/Clinical	Medicine/Global Health	Analysis of Feto-Infant Mortality in the Seme and Kisumu West Sub- Counties of Kisumu County, Kenya
Dominic Facciponte;	Michael Costanza	Clinical	Surgery, Vascular and Endovascular	Identifying risk factors that determine which dialysis patients are better served with an arteriovenous graft versus an arteriovenous fistula on long- term hemodialysis
Jaimie Rogner;	Ma-Li Wong	Basic	Psychiatry	Caspase 1 Modulation of S100A10/P11 Actions in Depression
Jimin Lee;	Christopher Prendergast	Clinical	Pediatrics	Congenial Heart Disease continuation of care and care improvement
Julian Sit;	Mehdi Mollapour	Basic	Urology	Impact of FNIP co-chaperones on Hsp90 chaperone function and drug binding in kidney cancer
Katherine Schumacher;	Timothy (Tim) Damrom	Clinical/Translational	Orthopedics	Four Quadrant Triage Management of Low-Grade Hyaline Cartilage Tumors
Mahin Choudhury;	Eduardo Solessio	Basic	Opthalmology	Characterizing the retinal structure and function in the GNAT2Ko mouse model of achromatpsia
Megan Tatusko;	Kenneth Mann	Clinical	Orthopedics	Alterations in Cement-Bone Interface Morphology Following Joint Replacement in 9 month old rats
Neesha Desai;	Donna Osterhout	Clinical/Translational	Cell and Developmental Biology	Evaluation of cABC treatment on Oligodendroglia in Chronic SCI

Summer Fellowship PROJECTS 2020

Fellow Name	Mentor	Type of Research	Department	Project Title
Mark Derbyshire;	Andrea Viczian	Basic	Ophthalmology & Visual Science	Genetic Network Regulating Eye Formation
Elena Kleinhenz;	Frank Middleton	Basic	Neuroscience & Physiology	Genetic and epigenetic predictors of seizures in idiopathic and syndromic autism spectrum disorder and developmental delay
Andrew Pivovar;	Amirfarbod Yazdanyar	Basic	Ophthalmology & Visual Science	Characterization of Phospholipid Transfer Protein (PLTP) effects on lipoprotein metabolism in human Retinal Pigment Epithelium (RPE) cells
Robert She;	Katsuhiro Kobayashi	Clinical	Radiology	Identification of Risk Factors associated with Infections of Chemotherapy Chest Ports
Sruti Akula;	Andrea Viczian	Basic/imaging	Ophthalmology & Visual Science	Genetic Network Regulating Eye Formation
Andrew Goldmann;	Thomas Sanford	Computational/AI	Urology	Web Accessible AI for Prostate Cancer Risk Assessment
Kathryn Skolnick;	Amy Caruso Brown	Epidemiological	Bioethics And Humanities	Assessing the Need for a Pediatric Cancer Predisposition Program at Upstate
Hannah Yoo;	Samuel Herberg	Basic	Ophthalmology & Visual Science	Investigation of 3D Mechanotransduction using a Trabecular Meshwork Hydrogel
Michelle Chen;	Thomas Sanford	Computational/AI	Urology	Quantifying Tumor-Infiltrating Lymphocytes in Renal Cell Carcinoma Utilizing Artificial-Intelligence Trained Deep Learning Models
John Yablonski;	Preethi Ganapathy	Basic	Ophthalmology & Visual Science	Investigating the role of optic nerve head astrocyte (ONHA) Piezo1 activity in extra cellular matric stiffening in response to mechanical strain
Kiersten Kennedy;	Donna Osterhout	Basic	Cell & Developmental Biology	The Effect of Microglia on Remyelination after Spinal Cord Injury
Ahmed Souid;	Lawrence Chin	Basic/translational	Director of Gamma Knife Center Medical Director of Neuro Oncology Program	An Analysis of Transcriptional Regulation in the Four GBM Molecular Subtypes

Summer Fellowship
PROJECTS 2021

Fellow Name	Mentor	Department	Type of Research	Project Title
Austin Wong;	Andrea Viczian	Ophthalmology & Visual Science	Basic	Quantifying the role of transcription factor Tbx3 during retinal vascular formation
Jasleen Sidhu;	Aamer Imdad	Pediatrics - GI Clinic	Computational/clinical	Zinc supplementation for preventing mortality, morbidity, and growth failure in children aged 6 months to 12 years of age
Anjlee Panjwani;	David Auerbach	Pharmacology	Basic/translational	Cardiac ECG Markers for a High-Risk of Cardiac-Mediated Sudden Death in Epilepsy
Maxwell Charlat;	Abirami Sivapiragasam	Div Hematology-Oncology - Cancer Ctr	Clinical/Computational	Use of Cryotherapy for Chemotherapy Induced Peripheral Neuropathy. A Single Institutional Experience.
Zachariah Wentlent;	Rajin Shahriar	Orthopedic Surgery	Epidemiological	Epidemiology of musculoskeletal firearm-related injuries in children
Anindita Rajasekaran;	Francesca Pignoni	Ophthalmology; Neuroscience and Physiology	Basic	Protein-protein interactions underlying SIX1 function in human disease
Margaret Lovier;	Roger Wong	Public Health and Prev Medicine - Physical Med & Rehabilitation	Computational/clinical	Influence of Dementia on COVID-19 Diagnosis and Adherence to Public Health Practices
Joseph Settineri ;	Stewart Loh	Biochemistry and Molecular Biology	Basic	Refining the Efficacy of p53 Rescuing Zinc Metallochaperone Drugs by Determining Optimal Delivery Methods and Pharmacodynamics
Danielle Pitter;	Donna Osterhout	Cell & Developmental Biology	Basic	Tracking Neuronal Regeneration after Spinal Cord Injury_
Katrina Stevens;	Paul Klawitter	Emergency Department	Epidemiological	COVID19 Prevalence in Outdoor Professionals during the 2020 Pandemic
Adam Hatala;	Amar Suryadevara	Otolaryngology-Facial Plastic Surgery	Computational/clinical	Comparing 'in charge' Time for surgical Residents at Outpatient Surgery Centers and Hospital Operating Rooms
Adeenah Ahmed;	Ma-Li Wong	Psychiatry	Basic	Chronic stress and splice variants

Summer Fellowship
PROJECTS 2023

STUDENT/yes	PI	DEPARTMENT	TITLE
DERRICK SPENCER	JASON HORTON	Orthopedic surgery	Establishment of a microfluidic platform to model drug-induced liver injury by chemothery drugs
MARGARET LOVIER	LI-RU ZHAO	Neurosurgery/neuroscience and Phys	Exploring a supportive enriched environment on severe TBI recovery
JONATHAN BEARDEN	ALINA BASNET	Medicine/Medical Oncology	Studying tumor immune microenvironment (TIME) and identifying predicive biomarkers in relation to platinum-based chemotherapy and immunotherapy in metastatic castrate-resistant prostate cancers
KAVIPRIYA KOVAI PALANIVEL	SAMUEL HERBERG	Ophthalmology and Visual sciences	The role of mechanical stretch on trabecular meshwork cell chromatin accessibility and epigenetic modifications
MICHAEL LEYDERMAN	MEHDI MOLLAPOUR	Urology	Targeting HDAC6 in Angiomyolipoma
ANDREW WILLIAMS	MARIANO VIAPIANO	Neuroscience and Physiology- Basic	Analysis of the neuroendrocrine factor VGF as a biomarker and therapeutic target in glioblastoma
ALEXANDRA STONE	LESZEK KOTULA	Urology	Evaluation of AR inhibitors in ABI1 driven Bca
KEVIN THOMAS	STEWART LOH	BIOCHEMISTRY - Basic	Design of nanobody-basedbiosensors for detections of vacuolar ATPase isoforms in human pathologies
CARA SMITH	LESZEK KOTULA	Urology	Sensitivity of ABI1/PTEN KO Spheroids to enzalutimide
ALEX BLOMFIELD	SUSAMA VERMA	Spinal Cord injury and Disorders	Effects of LED photobiomodulation in patients with Traumatic Brain Injury (TBI) with concurrent Spinal Cord Injury (SCI)
NIKITA SHAH	ANDREA VICZIAN	Ophthalmology and Visual sciences	Control of retinal angiogenesis by Tbx3
RACHEL L CHERNET	TAMARA JAMASPISHVILLI	Pathology	Studying the prognostic and predictive role of PD-L1 epression on digital images using artificial intelligence in a pan-cancer retrospective patient cohort undergoing immunotherapy
SEAN CONNOLLY	EDUARDO SOLESSIO	Ophthalmology and Visual sciences	Evaluate rod function in mesopic lights using ERG techniques
AVREE KESTAY	DONNA OSTERHOUT	Cell and Developmental Biology - Basic	Effect of neurotrophins on Microglial Populations after Spinal Cord Injury
KATHERINE NARVAEZ MENA	RACHEL FABI	Bioethics and Humanities	Postpartum health care receipt among immigrant women in the United States
PETER FIORAMONTI	HARISH BABU	Neurological surgery	Identification of preoperative, perioperative and postoperative factors associated with improved patient outcomes following glioblastoma resection

CANCER PROJECT	8 OUT OF 16

Summer Fellowship
PROJECTS 2024

STUDENT FIRST	STUDENT LAST	PI MENTOR	DEPARTMENT	PROJECT TITLE
Oyeolamide	Oyediran	Leszek Kotula, MD. / Ph.D.	**Urology**	ABI1 Dependent Gene Expression under Enzalutamide Resistance.
Stephanie	Ijomah	Reyna I. Martínez-De Luna	**Ophthalmology and Visual Sciences**	The role of β2 laminins in optic chiasm architecture
Mackenzie	Bennett	Dr. Tamara Jamaspishvili	**PATHOLOGY**	Single-center retrospective clinical study of artificial intelligence (AI)-based protein assessment of three tumor suppressor genes ("triple-TSG") for improved risk stratification and treatment management of advanced prostate cancer
Nyaari	Kothiya	Dr. William Spencer	**Ophthalmology and Visual Sciences**	Proteomic Analysis of Photoreceptor Disc Proteins in Mouse Rods and Cones
Nikhita	Kumar	Dr. Levi Todd	**Ophthalmology and Visual sciences**	Targeting Glia to prevent the degeneration of neurons to preserve sight
Andrew	Kareeparampil	Michaela Kollisch-Singule, MD	**General Surgery**	Novel Therapeutic Approach for Severe ARDS with a Potent Pharmacologic Allosteric Hemoglobin Modifier
Janet	Nguyen	Dr. Matthew Sullivan	**Orthopedic Trauma Service**	Outcomes on isolated tibial tubercle avulsion fractures
Kirsten	Krick	Donna Osterhout, PhD	**Cell and Developmental Biology**	Development of Cell Seeded Grafts for Nerve Repair
Nelson	Lin	Juntao Luo	**Department of Pharmacology, Surgery (joint), Microbiology & Immunology (joint)**	Novel intrapulmonary formulation for both infection and inflammation control in COPD
Richmond	Mensah	Harish Babu, MD/PhD	**Medicine, Neurosurgery**	Comparing Clinical Outcomes in CNS Lymphoma between resection and Biopsy
Theresa	Chung	Nayla Khoury	**Psychiatry**	Trauma-adapted Yoga for Upstate Healthcare Workers

Summer Fellowship
PROJECTS 2025

STUDENT FIRST	STUDENT LAST	PI MENTOR	DEPARTMENT	PROJECT TITLE
Trinity	Neal	Lesile Jade Archuleta	Obstretric and Gynecology	Assessing the incidence and role of food insecurity as a risk factor in the pre-operative population
Wai	Tung	Mehdi Mollapour	Urology	Therapeutic potential of targeting PGAM5inclear cell renal carcinoma
Sejoon	Jun	Samuel Herberg	Ophthalmology and visual sciences	Investigating the Migratory Behavior of Trabecular Meshwork and Schlemm's canal cells in a Novel co-culture Hydrogel Model
John	Dempsey	Harish Babu	Neurosurgery, Neuroscience and Physiology	Uncovering the impact of social drivers of health on outcomes in adults with high-grade brain tumors
Izzy	Salama	Samuel Herberg	Ophthalmology and visual sciences	Investigating the diverging nuclear architecture in trabecular meshwork cells from segmental flow regions
Casey	Dang	Justin Ryan	Pharmacology	Development of an ECG-Based Machine Learning Algorithm for Assessing Respiratory Function from non-standard ECG leads
Nicholas	Mecca	William Spencer	Ophthalmology and visual sciences	investigating the antigenic targets of anti-retinal auto-antibodies in the setting of a retinal degeneration
Gianna	DeRoberts	Dr. Amar Suryadevara	Otolaryngology-Facial Plastic Surgery	Cinical Course of Anxiety and Depression Post Functional Rhinoplasty
Yatin	Zirath	Koh-Eun Narm	Internal medicine	The Role of Atrial Fibrillation as a Hospital Complication: A Retrospective Review
Brian	Walker	William G. Kerr	Microbiology and Immunology, Pediatrics	Analysis of the Role that SHIP2 plays in human neuronal survival and function
Andrew	Victoria	Li-Ru Zhao	Neurosurgery, Neuroscience and Physiology	defining how bone marrow-derived monocytes/macrophages contribute to SCF+G-CSF treatment-enhanced neurostructural regeneration in the chronic phase of severe TBI
Niitiggya	Taneja	Qinghe Meng	Surgery	Effects of Exosomes derived form Mesenchymal Stem Cells on Acute Lung Injury
Carson	Hobler	Paul Klawitter	Emergency Medicine	The impact of high stakes moments on ACL injury in the National Football League