Medical Student Research Conference Awards
September 16, 2022

Mentor Awards

2022 Summer Research Fellowship Outstanding Mentor in Basic Science Research

**Marlan Hansen, MD - Otolaryngology**
Nominated by Caleb Escudero, M2

2022 Summer Research Fellowship Outstanding Mentor in Clinical Research

**Lyndsay Harshman, MD – Pediatrics-Nephrology, Dialysis and Transplantation**
Nominated by Elliot Stalter, M2

2022 Summer Research Fellowship Outstanding Mentor in Translational Research

**Cesar de Cesar Netto, MD, PhD – Orthopedics and Rehabilitation**
Nominated by Hannah Stebral, Ryan Jasper, Vineel Mallavarapu and Nathan Chen, M2s

Student Research Awards – Foundation

François M. Abboud Prize for Best Platform Presentation (U of I Foundation Award)

**Bryan Mouser, M2**  **ORAL**
*Title:* “Are Ankle Contact Stresses Elevated Following Low-Energy Ankle Fractures?”
*Mentor:* Don Anderson and Jason Wilken, Orthopaedics and Rehabilitation

Donald D. Heistad Prize for Best Poster Presentation (U of I Foundation Award)

**Cameron Vannoy, M1**  **Poster**
*Title:* “Hidden Mechanisms Of Coding Pathogenic Variants In Ptprq”
*Mentor:* Richard Smith and Hela Azaiez, Otolaryngology

Borts Award (U of I Foundation Award)

**Zack Fleishhacker, M4**  **Poster**
*Title:* Development Of The Ideal Pediatric Airway Emergency Cart: Standardization, Streamlining, And Simulation
*Mentor:* Sohit Kanotra, Otolaryngology

Edward Heath Award (U of I Foundation Award)

**Noah Scigliano, M1**  **ORAL**
*Title:* “The Effect Of Full-Body Weight Loading On Ulnar Variance: An Upper Extremity Wbct Study”
*Mentor:* Joseph Buckwalter V, Orthopaedics and Rehabilitation

Melvin Marcus Clinical Research Award (U of I Foundation Award)

**Sadie Solomon, M1G**  **Poster**
*Title:* “After The Storm: Post-Viral Neuropathies In Covid-19 And Influenza”
*Mentor:* Martha Carvour, Internal Medicine
Excellence in Global Health Programs Research Award
JaNiese Jensen, M2  ORAL
Title: “The Association Of Pelvic Floor Disorders With Risk Factors Among Parous Ugandan Women”
Mentor: Kimberly Kenne, Obstetrics & Gynecology

Student Research Awards - Departmental

Excellence in Anatomy and Cell Biology Research
Grace Gasser, M1G  Poster
Title: “Defining Pulmonary Ionocyte Biology Using The Foxi1-Ko Ferret Model”
Mentor: John Engelhardt, Anatomy & Cell Biology

Margaret V. Lunsford Award for Research in Anesthesia
Olivia Snyder, M4  Poster
Title: “Trending Ability Of Cardiac Output Measurement By Lidco Rapid™ And Transesophageal Echocardiography In Elective Cardiac Surgery: A Comparison With Thermodilution”
Mentor: Sudhakar Subramani, Anesthesia

Excellence in Anesthesia Research
Alaina Berg, M3  ORAL
Title: “Increased Guideline Adherence And Decreased Ards Incidence With Protocolized Mechanical Ventilation”
Mentor: Nicholas Mohr, Emergency Medicine

Arthur A. Spector Award in Basic Biomedical Research
Alex Dou, M2  Poster
Title: “Dissociating The Structural Determinants Of Angptl3-Mediated Inhibition Of El And Lpl”
Mentor: Brandon Davies, Biochemistry

Nicholas P. Rossi Award for Cardiothoracic Surgery Research
Carolina Chu, M2  ORAL
Title: “Evaluating Colony Formation Efficiency (Cfe) Of Basal Cells Along Different Levels Of The Ferret Airway”
Mentor: Kalpaj Parekh, Cardiothoracic Surgery

Excellence in Dermatology Research
Alex Marti, M2  ORAL
Title: “Efficacy Of Intralesional Steroid Injections In The Treatment Of Cutaneous Lymphoma: Experience At An Academic Medical Center And Review”
Mentor: Vincent Liu, Dermatology

Excellence in Emergency Medicine Research
Gabrielle Frediani, M2  ORAL
Title: “A Nationwide Emergency Department Data Analysis To Evaluate Health Disparities In High-Risk Medication Use Among Older Adults”
Mentor: Sangil Lee, Emergency Medicine

Excellence in Family Medicine Research
William Tsai, M2  Poster
Title: “Evaluating Provider Perspectives On Using Agenda Setting With Patients”
Mentor: Kelly Skelly, Family Medicine
Carl V. Gisolfi Research Award for Excellence in Health and Human Physiology

Maddi McCullough, M2 Poster
Title: “Evaluating Hypotension As A Predictor Of Cardiovascular Physiology In Premature Infants”
Mentor: Danielle Rios, Pediatrics

John Stokes Award for Research in Internal Medicine

Grace Lee, M3 ORAL
Title: “Lung Cancer Screening Program Adherence In A Tertiary Academic Center”
Mentor: Richard Hoffman, Internal Medicine

Excellence in Internal Medicine Research

Kathy Nguyen, M2 Poster
Title: “Effects Of Covid-19 On Protein C Activation”
Mentor: Steven Lentz, Internal Medicine

Excellence in Internal Medicine Research

Abbie McKernan, M2 Poster
Title: “Screening Of Acquired Long Qt-Prolonging Drugs In Induced Pluripotent Cardiac Stem Cells Reveals Trafficking Defects In Herg”
Mentor: Barry London, Internal Medicine

Excellence in Microbiology and Immunology Research

Tyler Atagolzi, M2 ORAL
Title: “Constitutive Activation Of Stat6 Regulates Graft-Versus-Host Disease And Preserves Graft-Versus-Tumor Effect After Allogeneic Bone Marrow Transplantation”
Mentor: M Nedim Ince, Internal Medicine

Research Excellence in Molecular Physiology and Biophysics

Michelle Chen, M2G ORAL
Title: “The Role Of Social Touch Neurons In Stress Resilience”
Mentor: Rainbo Hultman, Molecular Physiology and Biophysics

Excellence in Basic Neuroscience Research

Richie Zhang, M2 Poster
Title: “Efferent Projections Of Nps Parabrachial Neurons In Mice”
Mentor: Joel Geerling, Neurology

Excellence in Clinical Neuroscience Research

Hunter Twedt, M1G Poster
Title: “Basal Ganglia Network Alterations In Parkinson’S Disease”
Mentor: Nandakumar Narayanan, Neurology

Excellence in Translational Neuroscience Research

Victor Kilonzo, M1 Poster
Title: “Prefrontal D1Dr-Expressing Neuronal Ensembles In Cognitive Processing”
Mentor: Nandakumar Narayanan, Neurology
Excellence in Clinical Research in Obstetrics & Gynecology

Renee Cafun, M2  
**Title:** “Antiphospholipid Antibodies – Should We Screen All Women With Recurrent Pregnancy Loss?”  
**Mentor:** Brad Van Voorhis, Obstetrics & Gynecology

Excellence in Obstetrics & Gynecology Research

Michaela Kiel, M2  
**Title:** “Psychiatric And Obstetric Disease Share Vascular Mechanisms In The Rgs2 Knockout Mouse”  
**Mentor:** Mark Santillan, Obstetrics & Gynecology

Thomas A. Weingeist Award in Ophthalmology

Matthew Kigin, M2  
**Title:** “Dmek Scrolls At 2,000 Frames Per Second: The Relationship Between Scroll Velocity And Tissue Characteristics”  
**Mentor:** Christopher Sales, Ophthalmology & Visual Sciences

William E. Scott Research Award in Ophthalmology

Emma Hartness, M2  
**Title:** “Development Of A Portable Automated Evaluation Of Ocular Misalignment”  
**Mentor:** Randy H. Kardon and Alina Dumitrescu, Ophthalmology & Visual Sciences

Hansjoerg E. Kolder Award for Ophthalmology Research

Erin Capper, M2  
**Title:** “Early Utilization Of Ketogenic Diet Worsens Visual And Motor-Sensory Deficits In Animal Model Of Multiple Sclerosis”  
**Mentor:** Oliver Gramlich, Ophthalmology & Visual Sciences

Ignasio V. Ponseti Prize in Orthopaedic Research

Hannah Stebral, M2  
**Title:** “Defining Normal Articular Characteristics Of The Primary Joints Of The Foot And Ankle: A 3D Hounsfield Algorithm Weight Bearing Ct Study”  
**Mentor:** Don Anderson, Orthopaedics and Rehabilitation

Research Excellence in Orthopaedics

Amy Zeller, M2  
**Title:** “The Functional Consequences Of Radiation Treatment In Soft Tissue Sarcoma Of The Extremity”  
**Mentor:** Benjamin Miller, Orthopaedics and Rehabilitation

Excellence in Otolaryngology Research

Caleb Escudero, M2  
**Title:** “Thin Film Zwitterionic Hydrogel Coating On Inner Surfaces Of Tympanostomy Tubes Facilitates Mucus Discharge”  
**Mentor:** Marlan R. Hansen, Otolaryngology - Head & Neck Surgery

Richard G. Lynch Award for Excellence in Pathology Research

Claire Jager, M2  
**Title:** “Changes In Igg Levels In Patients Treated With Plasma Exchange Using 5% Albumin With Or Without Ivig Vs Plasma”  
**Mentor:** Michael Knudson, Pathology
Richard G. Lynch Award for Excellence in Pathology Research

Sam Swartz, M4  
*Title:* “A One-Year Prospective Study Of All Delivering Women At A Midwest Academic Health Center”  
*Mentor:* Brooks Jackson, Pathology

Excellence in Pediatric Basic Science Research

Ashray Mohan, M2  
*Title:* “The Evaluation Of 3D And Augmented Reality Models In Teaching Of Congenital Heart Diseases”  
*Mentor:* Ravi Ashwath, Pediatrics

Excellence in Pediatric Clinical Research

Stephanie Saey, M4  
*Title:* “Experience With Subcutaneous Desmopressin In Patients With Von Willebrand Disease (Vwd) And Qualitative Platelet Function Disorders”  
*Mentor:* Anjali Sharathkumar, Pediatrics

Excellence in Neuroscience and Pharmacology Research

Sam Hatfield, M1G  
*Title:* “Confirmation Of Cre-Inducible RabL6A Overexpression In Mouse Embryo Fibroblasts”  
*Mentor:* Dawn Quelle, Pharmacology

George Winokur Research Award in Psychiatry

Jon Sikora, M2  
*Title:* “Behavioral Characterization Of Mouse Models Of Scn2A-Related Autism”  
*Mentor:* Aislinn Williams, Psychiatry

Bob Robinson Research Award in Psychiatry

Nathen Spitz, M2  
*Title:* “The Temporal Association And Differential Decrease Of Depression Symptomatology Between 10 Hz Repetitive Transcranial Magnetic Stimulation (Rtms) And Intermittent Theta Burst Stimulation (Itbs)”  
*Mentor:* Nicholas Trapp, Psychiatry

Lauretta Bender Research Award in Psychiatry

David Turaczyk Kolodziej, M2  
*Title:* “Investigating Functional Connectivity Of Cortical Networks In Presymptomatic Children And Adolescents At Risk For Huntington’S Disease”  
*Mentor:* Peg Nopoulos, Psychiatry

Jason Martin Medical Student Research Award in Radiology

Eric Bracken, M2  
*Title:* “Image-Based Assessment Of Smoking Associated Emphysema Etiology”  
*Mentor:* Eric A. Hoffman, Radiology

Larry W. Oberley Award in Radiation Oncology

Alex Leach, M2  
*Title:* “Use Of Novel Biofoams To Improve Diabetic Wound-Healing”  
*Mentor:* James Byrne, Radiation Oncology
Kimberly Ephgrave Medical Student Award for Research in Surgery

Braden Rolig, M2 ORAL
Title: “A Decade Of Oncologic Breast Reconstruction Outcomes”
Mentor: Kelly Ledbetter, Surgery

Excellence in Urology Research

Ian McElree, M2 ORAL
Title: “Sequential Intravesical Gemcitabine And Docetaxel Versus Bacillus Calmette–Guérin For The Treatment Of High-Risk Non-Muscle Invasive Bladder Cancer”
Mentor: Vignesh Packiam, Urology