

LSUHSC School of Medicine Class of 2025

Honors in Research – Spring 2025

Sarah Jane Aleman

Mentor: Alison Smith, MD, PhD

Project Title: *Splenic artery embolization in the treatment of blunt splenic injury: single level 1 trauma center experience*

Meva Beganovic

Mentor: Stefany Primeaux, PhD

Project Title: *Role of Taste Receptor Gene Variations (SNPs) on Diet Intake and Diet Quality in Male and Female Adolescents*

Nicholas Christakis

Mentor: Dr. Stuart Chalew, MD

Project: *Determination of Glucose-Independent Racial Disparity in HbA1c for Youth With Type 1 Diabetes in the Era of Continuous Glucose Monitoring*

Sloane Marcello Clay

Mentor: Fern Tsien PhD

Project Title: *Bioinformatics characterization of variants of uncertain significance in pediatric sensorineural hearing loss*

Margaret Adele Conrad

Mentor: Dr. Ed Grabczyk

Project: *Targeted Long-Read Sequencing and STR Profiling Using ReadUntil-Enriched Nanopore Data and EPI2ME's wf-human-variation*

Michael Vincent Forte

Mentor: Alan D. Kaye, MD, PhD, DABA, DABPM, DABIPP, FASA

Project Title: *Pathophysiology and Evolving Treatment Options of Septic Arthritis: A Narrative Review & Advancing Treatment in Atopic Dermatitis: A Comprehensive Review of Clinical Efficacy, Safety, and Comparative Insights into Corticosteroids, Calcineurin Inhibitors, and Phosphodiesterase-4 Inhibitors as Topical Therapies*

Breyanah Michelle Graham

Mentor: Amelia Jernigan, MD

Project Title: *Using an Augmented SAMANTA Score to Screen At-Risk Women Seeking Bariatric Surgery for Postmenopausal or Abnormal Uterine Bleeding*

Tyler Dane Hernandez

Mentor: Christopher Haas, MD, FAAD

Project Title: *JAK Inhibitors in Hidradenitis Suppurativa: A Systematic Review*

Shivani Jain

Mentor: Alexandra Fairchild, MD; Hector Ferral, MD

Project Title: *Cirrhosis and Sarcopenia*

Luke Konur

Mentor: Dr. Jennifer Cameron, PhD

Project: *Analysis of DNA Methylation as a Triage Marker for Women with Cervical HPV Infection*

Salim Cesar Lutfallah

Mentor: Jill N. D'Souza, MD FACS

Project: *Associations of Social Vulnerability with Central Nervous System Cancer Prognosis and Treatment across the US*

Davis Edward Martin

Mentor: Luis Marrero PhD

Project Title: *Insights into Quadriceps Health from the Articularis Genu of Osteoarthritis Patients*

Jonathan Richard

Mentor: Dr. Gregory Kyle Fulton, MD

Project: *Neonatal Mandibular Distraction in Nablus Mask-Like Facial Syndrome*

Jeremy Thomas Richardson

Mentor: J. James Collier, PhD

Project: *Matching non-obese diabetic mice models of type 1 diabetes at immunologically important genetic loci provides insight into disease onset and pathogenesis*

Alison Karee Schafer

Mentor: Cody Roi, DO, MPH

Project Title: *Screen Time Trends in an Outpatient Behavioral Health Clinic*

Ryan James Schroeder

Mentor: Luis Marrero PhD

Project Title: *Novel Interleukin-11 Inhibitors Attenuate Collagen in Arthrofibrosis Patient-Derived Fibroblastic Synoviocytes In Vitro*

Nathan Sharfman

Mentor: Dr. Nicholas Gilpin, PhD

Project Title: *Inflammatory Pain and Adolescent Intermittent Ethanol Exposure Affects Central Amygdala Melanocortin 4 Receptor System*

Madeline Lechtenberg Stewart

Mentor: Herb A. Phelan III, MD, MSCS, FACS

Project Title: *A Pilot Study of Hand Autografts Treated with Autologous Skin Cell Suspension*

Harrison James Travis

Mentor: Alison Smith MD, PhD

Project Title: *Does Vehicle Intrusion Alone Still Predict Injury: A Retrospective Analysis of Mechanism as Trauma Activation Criteria*

Selby May White

Mentor: Jessica A. Zagory, MD

Project Title: *A Comparative Analysis of Zip Code Discordance in Pediatric Gunshot Wounds*