American College of Surgeons: Owen H Wangensteen Scientific Forum Excellence in Research Awards 2021

Julia L Nugent, MD
Surgery Resident at: University of Minnesota, Minneapolis, MN
Award Category: Bariatric and Foregut
Abstract Title: Laparoscopic Vertical Sleeve Gastrectomy in Nonhuman Primates Modulates Visceral Adipose Tissue Inflammation with a Decrease in CD40-Expressing Cells
Co-authors: Meghan Moore, MPH, DVM, Laura Hocum Stone, PhD, Amar Singh, PhD, Sabarinathan Ramachandran, PhD, Sayeed Ikramuddin, MD, FACS, Melanie L Graham, MPH, PhD
Dr Nugent grew up in North Carolina and was a research technician at Duke University before matriculating into medical school at the University of North Carolina, Chapel Hill. She is a PGY4 General Surgery resident at the University of Minnesota and took 2 years of dedicated research and professional development time, during which she conducted research with the University of Minnesota PreClinical Research Center under the direction of Dr Melanie Graham along with her co-mentor Dr Sayeed Ikramuddin. Dr Nugent looks forward to applying to a fellowship in colorectal surgery and developing her career in translational models and immunologic effects of surgery.

Adriana C Panayi, MD
Fellow at: Harvard Medical School, Roxbury Crossing, MA
Award Category: Breast
Abstract Title: Modified 5-Item Frailty Index Is a Risk Predictor in Breast Reconstruction: An Analysis of 40,415 Patients
Co-authors: Sina Foroutanjazi, BS, Neil Parikh, BS, Valentin Haug, MD, Martin Kauke-Navarro, MD, Yannick Diehm, MD, Bohdan Pomahac, MD
Dr Panayi received a Bachelor of Science in Neuroscience from University College London and her medical degree from the University of Cambridge in the UK. Since August 2017, she has been working as a postdoctoral researcher in the Plastic Surgery department at Brigham and Women’s Hospital under the mentorship of Dr Dennis P Orgill and Dr Bohdan Pomahac. In May 2019, Dr. Panayi joined the faculty of Harvard Medical School and became a Principal Investigator leading 2 grant-funded wound healing projects. In addition to preclinical innovation in wound healing and tissue regeneration, her research interests include clinical surgical topics, such as optimization of patient risk identification, typically through evidence-based evaluation of postoperative outcomes. After completion of her training, she hopes to work as an academic surgeon within the field of facial reconstructive surgery.
**Kevin T Lynch, MD**

Surgery Resident at: University of Virginia, Charlottesville, VA

Award Category: Colon and Rectal Surgery

Abstract Title: *Phase I Trial of Vaccination with Carcinoembryonic Antigen and Her2/neu (Her2) Peptides in Advanced Colorectal Cancer*

Co-authors: Gabriella C Squeo, MD, William J Kane, MD, Max O Meneveau, MD, Walter C Olson, PhD, Gina Petroni, PhD, Craig L Slingluff, Jr, MD, FACS, Eugene F Foley, MD, FACS, Charles M Friel, MD, FACS

Dr Lynch was born in Raleigh, NC, and is a current PGY5 resident at the University of Virginia (UVA), where he has also had the privilege of conducting research in cancer immunology under the guidance of Dr Craig Slingluff. In addition to Dr Slingluff, he is also deeply grateful to Drs Charles Friel, Traci Hedrick, and Sook Hoang, for their mentorship during his residency at UVA. Dr Lynch’s primary research interests include cancer immunotherapy and oncoimmunology, and he has recently become interested in the oncologic outcomes of cancer survivors diagnosed with secondary malignancy. After his training, he hopes to continue to conduct research in these areas while also providing excellent surgical care to his future patients.

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**Jillian W Bonaroti, MD**

Surgery Resident at: University of Pittsburgh, Pittsburgh, PA

Award Category: General Surgery

Abstract Title: *Circulating Monocytes Show Early and Persistent Change by Single Cell Transcriptomic Analysis in Response to Major Elective Surgery*

Co-authors: Junru Wu, MD, Tianmeng Chen, BS, MS, Julia Conroy, BS, Patricia Loughran, PhD, Katherine M Reitz, MD, Brian S Zuckerbraun, MD, FACS, David O Okonkwo, MD, Timothy R Billiar, MD, FACS

Dr Bonaroti was born and raised in Murrysville, PA, a suburb of Pittsburgh. She received her undergraduate degree at the University of Pittsburgh and her medical degree at Sidney Kimmel Medical College in Philadelphia, PA. She returned to Pittsburgh for her surgical residency, and is now a PGY4. Dr Bonaroti is currently in a 2-year dedicated period of research training at the University of Pittsburgh Medical Center. She is very interested in trauma immunology, and her primary mentors are Dr Timothy Billiar and Dr Matthew Neal. She is an officer in the US Navy Reserves, and after completion of her surgical residency, she hopes to pursue a fellowship in trauma and surgical critical care before serving as a Navy surgeon. She is excited to remain active within academic surgery while serving in the military and hopes to maintain the collaborations she established during residency.
James C Etheridge, MD
Surgery Resident at: Brigham and Women’s Hospital, Boston, MA
Award Category: General Surgery
Abstract Title: Impact of Hospital Characteristics on Best Practice Adherence for Gallstone Pancreatitis: A Nationwide Analysis
Co-authors: Manuel Castillo-Angeles, MD, MPH, Robert D Sinyard, MD, MBA, Joaquim M Havens, MD, FACS
Dr Etheridge was born in Pittsburgh, PA and raised in Norfolk, VA. He received his medical degree from Eastern Virginia Medical School and has completed 2 years of residency training in general surgery at Brigham and Women’s Hospital. He is now in his second dedicated year of professional development as a postdoctoral research fellow at Ariadne Labs, a joint center for health systems innovation at Brigham and Women’s Hospital and the Harvard TH Chan School of Public Health. His research there, conducted under Drs Joaquim Havens and Mary Brindle, focuses on best-practice implementation and patient safety in general surgery and trauma. After completing his research and clinical training, Dr Etheridge plans to pursue a career in trauma and surgical critical care.

Ryan Howard, MD
Surgery Resident at: Michigan Medicine, Ann Arbor, MI
Award Category: General Surgery
Abstract Title: Long-Term Ventral Hernia Recurrence in a National Medicare Population
Co-authors: Jyothi R Thumma, MPH, Anne P Ehlers, MD, MPH, Laura Mazer, MD, MHPE, Lia D Delaney, BS, Quintin P Solano, BS, Justin B Dimick, MD, MPH, FACS, Dana A Telem, MD, MPH, FACS
Ryan Howard is a surgical resident at the University of Michigan, where he also earned his medical degree. Currently, he is pursuing dedicated research time as a fellow at the Center for Healthcare Outcomes and Policy at the University of Michigan. His research focuses on ways to improve the value and safety of surgical care. He has helped lead local and statewide quality improvement initiatives around preoperative patient optimization, evidence-based opioid prescribing, and perioperative health behavior change. His current work focuses on leveraging collaborative quality improvement models to help patients achieve the best possible outcomes after surgery.
Frances Y Hu, MD, MSc  
Surgery Resident at: Brigham and Women’s Hospital, Boston, MA  
Award Category: Geriatric and Palliative Care  
Abstract Title: Surgeon-Reported Barriers and Facilitators to Adoption of Standards for Goal-Concordant Care in Patients with Advanced Cancer  
Co-authors: Masami Kelly, MA, Fabian M Johnston, MD, FACS, Charlotta Lindvall, MD, PhD, Anne M Walling, MD, PhD, Rachelle E Bernacki, MD, MS, Zara Cooper, MD, MSc, FACS  
Dr Hu was born in Shanghai, China, and grew up in Connecticut. She attended Emory University School of Medicine before starting residency. She has completed 3 clinical years and is currently a research fellow at the Center for Surgery and Public Health at Brigham and Women’s Hospital with Dr Zara Cooper as her mentor. She is interested in optimizing the quality and safety of patient care, and her research has been focused on improving shared decision-making and goal-concordant care, particularly in older surgical patients. After completing training, she plans to pursue a career in colorectal surgery.

Sarah Jane Commander, MD  
Surgery Resident at: Duke University, Durham, NC  
Award Category: Global Surgery and Humanitarian Outreach  
Abstract Title: Delays in Pediatric Colorectal Care Lead to Unnecessary Healthcare Expenditure: A Standard of Care Phase for the Implementation of a Mobile Health Program  
Co-authors: Felix Oyania, MBChB, MMed, Laura Aji-diru, MBChB, Danielle Ellis, MD, Martin S Situma, MBChB, MMed, Tamara N Fitzgerald, MD, PhD, FACS  
Sarah Jane Commander was born in Poole, England and lived in many places including Alaska, Texas, California, and Trinidad and Tobago. She received her bachelor of sciences degree in biology with honors in neurobiology and a minor in chemistry at Stanford University in 2013. She received her medical doctorate at Baylor College of Medicine, where she was elected to Omega in 2017. She spent 2 years in a research fellowship focused on clinical trials in global pediatric surgery with Dr Tamara Fitzgerald and pediatric surgical oncology with Dr Elisabeth Tracy. She has received the Thrasher Research Fund’s Early Career Award, the Association for Academic Surgery’s Global Surgery Research Fellowship Award, the Duke Clinical Research Institute’s Executive Director Pathway Fellows Award, and the NIH T-32 in Clinical Pharmacology. She is currently a fifth year general surgery resident at Duke University Medical Center and aspires to become a pediatric surgeon.
Joshua E. Rosen, MD, MHS
Surgery Resident at: Surgical Outcomes Research Center, Department of Surgery, University of Washington, Seattle, WA
Award Category: Health Services Research
Abstract Title: Treatment Risk Perception Varies Based on How Risk Information Is Communicated
Co-authors: Nidhi Agarwal, PhD, MBA, David R Flum, MD, FACS, Joshua M Liao, MD, MSc, FACP
Dr. Rosen is originally from Toronto, ON and completed his undergraduate degree in engineering at the University of Waterloo before moving to the US for medical school at Yale School of Medicine. He is entering his PGY-5 year of general surgery residency at the University of Washington and is completing 2 research years at the University of Washington’s Surgical Outcomes Research Center under the primary mentorship of Drs. David Flum and Joshua Liao. Dr. Rosen is interested in the process of using large data sources to guide personalized surgical decision-making. His work ranges from outcomes research to understanding how physicians and patients use data to make decisions, and how we can better support that process. He plans to complete a fellowship in trauma surgery and surgical critical care after his general surgery training.

Brett L. Ecker, MD
Fellow at: Memorial Sloan Kettering Cancer Center, New York, NY
Award Category: Hepatobiliary and Pancreas
Abstract Title: Alteration in Driver Genes Is Associated with Response to Neoadjuvant Folfirinox in Patients with Non-Metastatic Pancreatic Ductal Adenocarcinoma
Co-authors: Quisette Janssen, MD, Alice Tao, BA, Wesley Tansey, PhD, Michael D’Angelica, MD, Jeffrey A Drebin, MD, PhD, FACS, William R Jarnagin, MD, FACS, T Peter Kingham, MD, FACS, Kevin Soares, MD, Alice C Wei, MD, FACS
Dr. Brett Logan Ecker was born and raised in Ardsley, NY. He graduated from the Icahn School of Medicine at Mount Sinai with a distinction in research and completed his general surgery training at the University of Pennsylvania. Brett is currently in his second year of surgical oncology fellowship training at Memorial Sloan Kettering Cancer Center, where he is the chief fellow. Under the mentorship of Drs D’Angelica, Jarnagin and Wei, Brett is actively designing both surgical and oncology clinical trials, while using clinical and translational research to guide patient selection and trial design.
**Yuyu Luo, MM**  
Surgery Resident at: Third Central Clinical College of Tianjin Medical University, Tianjin, China  
Award Category: Hepatobiliary and Pancreas  
Abstract Title: *pH-Responsive Functionalized Extracellular Vesicles as Targeted Doxorubicin Delivery Vehicle for the Treatment of Hepatocarcinoma*  
Co-authors: Yijun Wang, Pro, Yingtang Gao, Pro, PhD, Ying Luo, PhD, Liaonan Zou, MD, FACS  
Yuyu Luo was born in Zhuhai, Guangdong, China, a beautiful coastal city. He finished his postgraduate education at Tianjin Medical University, majoring in integrated traditional Chinese and Western medicine. His respected mentor is Yijun Wang, President of the General Surgery Branch of Tianjin Medical Doctors Association. He taught Yuyu not only what to study and how to think, but also to see the importance of family, because family can provide encouragement during one's whole life. Yuyu's main research direction of his 3-year postgraduate program was to synthesize nanoscale drug carriers (such as exosomes) to act as therapeutic drug carriers to achieve tumor-targeted therapy. He hopes he can do more of it in animals and even humans, and looks forward to making it an important part of anti-tumor therapy in the future. He would like to thank Tianjin Institute of Hepatobiliary Diseases of Tianjin Third Central Hospital and all those who offered help and support in this research.

**Wooram F Jung, MSc**  
Medical Student at: Division of Plastic Surgery, New York Presbyterian Hospital, Weill Cornell Medical Center, New York, NY  
Award Category: Orthopaedic Surgery  
Abstract Title: *Improved Physical Function and Pain Score after Lower Extremity Osseointegrated Implant Placement: A Closer Look at Complication and Patient-Reported Outcomes*  
Co-authors: Andrew A Marano, MD, Grant Black, BA, S Robert Rozbruch, MD, David M Otterburn, MD, FACS  
Wooram was born in Fort Lauderdale, FL, grew up in San Francisco, CA, and moved to London, UK after elementary school, where he remained for his undergraduate and graduate education at University College London. Currently, he is a fourth-year medical student at Weill Cornell Medical College in New York City. Over the past year, he has been conducting research under the mentorship of Drs Robert Rozbruch, Lisa Newman, and David Otterburn. His research interests include health services research, surgical disparities, and patient-reported outcomes. After medical school, Wooram hopes to continue his training in plastic surgery.
Modupeola Diyaolu, MD
Surgery Resident at: Stanford Medical Center, Stanford, CA
Award Category: Pediatric Surgery
Abstract Title: RAS Inhibition Delays Neuroblastoma Tumor Growth and Genes Upregulated in Tumors with High RAS Expression Can Be Identified Using Gene Set Enrichment Analysis
Co-authors: Vinodh Rajagopalan, PhD, DVM, Min Huang, MD, PhD, Jasmine C Zeki, BA, Rachel Greathouse, BA, John O’Bryan, PhD, Bill Chiu, MD, FACS
Dr Diyaolu was born and raised in Brockton, MA. She attended Tufts University as an undergraduate and received her medical degree from the University of Massachusetts Medical School. After 2 years of training in general surgery at Summa Akron City Hospital, she began at pediatric surgery research fellowship at Lucile Packard Children’s Hospital at Stanford. Dr Diyaolu’s research interests include short gut syndrome, neuroblastoma, chest wall deformity, and racial disparity in non-accidental trauma. Her mentors are Drs Bill Chiu, James Dunn, and Stephanie Chao. After training, she plans to pursue a career in pediatric surgery.

Celia Short, MD
Surgery Resident at: Children’s Hospital Los Angeles, Los Angeles, CA
Award Category: Pediatric Surgery
Abstract Title: Prominin-1-Expressing Hepatic Progenitor Cells Promote Liver Fibrogenesis via MMP7-Mediated Signaling Pathways during Cholestatic Liver Injury
Co-authors: Allen Zhong, MD, Jiabo Xu, BS, Kinji Asahina, PhD, Kasper S Wang, MD, FACS
Dr Short grew up in Seattle, WA. She received her medical degree from St George’s University School of Medicine and is a general surgery resident at Louisiana State University (LSU). She completed 3 years at LSU and is now away on research at Children’s Hospital Los Angeles. She is starting her 3rd year in Dr Kasper Wang’s lab, were they focus on biliary atresia basic science research. Dr Short is particularly interested in the intrahepatic fibrogenesis of biliary atresia. She plans to go on to pediatric surgery fellowship after completing her general surgery training and would like to continue working in biliary atresia research as a pediatric surgeon one day.
Ruth Tevlin, MB BAO BCh, MRCSI, MD  
Surgery Resident at: Stanford Hospital and Clinics, Stanford, CA  
Award Category: Plastic and Maxillofacial Surgery  
Abstract Title: Denervation during Mandibular Distraction Osteogenesis Results in Impaired Osteogenesis  
Co-authors: Michael Januszyk, MD, PhD, Michelle Griffin, MD, PhD, Ankit Salhotra, BS, Derrick C Wan, MD, FACS, Charles KF Chan, PhD, Michael T Longaker, MD, MBA, FACS  
Dr Ruth Tevlin is a fifth-year resident in the Division of Plastic and Reconstructive Surgery at Stanford Hospital and Clinics. She is honored to receive an Excellence in Research Award for her work entitled “Denervation During Mandibular Distraction Osteogenesis Results In Impaired Osteogenesis”. This work was performed during her professional development year under the mentorship of Dr Michael Longaker in the Hagey Laboratory for Pediatric Regenerative Medicine, Stanford University and with the generous support of the Plastic Surgery Foundation Research Fellowship. Dr Tevlin is originally from Dublin, Ireland where she attended medical school at University College Dublin and commenced her surgical training with the Royal College of Surgeons in Ireland. After a postdoctoral fellowship with Dr Longaker, Dr Tevlin continued her plastic surgery training at Stanford University with the goal of becoming an academic plastic surgeon. She is passionate about tissue regeneration and complex reconstruction, and hopes to advance the lives of her patients through science, innovation and compassion.

Cara A Liebert, MD  
Fellow at: Stanford University School of Medicine, Stanford, CA  
Award Category: Surgical Education  
Abstract Title: ENTRUST: A Serious Game-Based Virtual Patient Platform to Assess Entrustable Professional Activity in Surgical Education  
Co-authors: Dana T Lin, MD, FACS, Edward F Melcer, PhD, Oleksandra G Keehl, MS, Amber Trickey, PhD, MS, CPH, Hyrum Eddington, BS, Sylvia Bereknyei Merrell, DrPH, MS, James R Korndorffer, Jr, MD, MHPE, FACS  
Dr Liebert grew up in New York and Florida before graduating from the University of North Carolina, Chapel Hill. She earned her medical degree and completed general surgery residency at Stanford University, as well as an American College of Surgeons Education Institute Surgical Education Fellowship. She is now completing advanced gastrointestinal/minimally invasive surgery fellowship training at Veterans Affairs (VA) Palo Alto. Her primary research focus is surgical education, including entrustable professional activity (EPA), serious games in education, and assessment. Her research on the ENTRUST platform for assessment of EPA is conducted at VA Palo Alto and Stanford with Drs Dana Lin and James Korndorffer, in collaboration with Dr Edward Melcer at the University of California, Santa Cruz and Dr Amber Trickey at Stanford Surgery Policy Improvement Research and Education center (SPIRE). In August 2021, she will join the department of surgery at Stanford and VA Palo Alto as a clinical assistant professor.
Madhuri B Nagaraj, MD, MS  
Surgery Resident at: University of Texas Southwestern, Dallas, TX  
Award Category: Surgical Education  
Abstract Title: *At-Home Medical Student Simulation: Achieving Knot-Tying Proficiency Using Video-Based Assessment*  
Co-authors: Krystle K Campbell, MS, Robert V Rege, MD, FACS, Angela P Mihalic, MD, Daniel J Scott, MD, FACS  
Madhuri B Nagaraj, MD, MS was raised in Coral Springs, FL and developed an avid interest in the sciences early on. She went on to obtain her medical degree through the dual-degree honors program in medicine education at the University of Miami Miller School of Medicine in 2017. She also obtained a concurrent masters degree in genomics through the Hussman Institute for Human Genomics. She discovered her love for surgery and began residency at her top rank, the University of Texas Southwestern in Dallas, TX. There she has completed 3 clinical years and a first year in professional development time under Dr Daniel J Scott. Her research interests include education, simulation, video-based review, quality improvement, and community/global outreach. She hopes to take the skills and knowledge during these professional development years and enter a fellowship in trauma/critical care and become an established educator in the field of surgery.

Eihab N Abdelfatah, MD  
Fellow at: Roswell Park Comprehensive Cancer Center, Buffalo, NY  
Award Category: Surgical Oncology  
Abstract Title: *Circulating CX3CR1+ CD8+ T Cells to Predict Response to Chemo-Immunootherapy in Patients with Non-Small Cell Lung Cancer*  
Co-authors: Toshifumi Hoki, PhD, Takaaki Oba, MD, PhD, Hongbin N Chen, MD, PhD, Kristopher Attwood, PhD, Brahm Segal, MD, Fumito Ito, MD, PhD, FACS, Ryutaro Kajihara, MD, Edwin Yau, MD  
Dr Abdelfatah was born in Jordan and immigrated to the US, where he grew up in Paterson/Clifton, NJ. He graduated from Rutgers New Jersey Medical School in 2012, and completed his general surgery residency at Rutgers with a 2-year research fellowship at Johns Hopkins during residency. He then came to Roswell Park Cancer Center in Buffalo, NY for a 1-year minimally invasive surgery thoracic/foregut fellowship, followed by a complex general surgical oncology fellowship, of which he just completed his first year and has 1 year remaining. Dr Abdelfatah’s research interests include: biomarkers for immune checkpoint inhibition; retrospective analysis to improve clinical outcomes in esophageal and foregut cancer; and frailty and prehabilitation. He implemented a frailty screening/prehabilitation program for gastrointestinal surgical patients at Roswell, as well as retrospectively evaluated the impact of frailty on postoperative/oncologic outcomes in patients. His mentors are Dr Moshim Kukar at Roswell Park, Dr Ravi Chokshi at Rutgers New Jersey Medical School, and Dr Nita Ahuja at Yale University.
Megan M Harper, MD, MS
Surgery Resident at: University of Kentucky, Lexington, KY
Award Category: Surgical Oncology
Abstract Title: Programmed Cell Death-1 Induces MET Activation and Dual Inhibition Synergistically Blocks Pancreatic Cancer Progression
Co-authors: Miranda Lin, BS, Prakash Pandalai, MD, FACS, Michael J Cavnar, MD, FACS, Mei Gao, PhD, Joseph Kim, MD, FACS
Dr Harper is a general surgery resident at the University of Kentucky. She was born and raised in southern California and obtained a bachelor’s degree in molecular biology and a master’s degree in biology from the University of California, San Diego (UCSD), before obtaining her medical degree from the University of Cincinnati, College of Medicine. Her interest in oncology began at UCSD and refined to a focus on gastrointestinal cancer while in the lab of Dr Andrew Lowy. She is currently a T32 fellow under the mentorship of Drs Joseph Kim and Mark Evers, as well as a clinical and translational science PhD candidate. Her research interests include using precision medicine to identify and develop efficacious therapy, categorizing population genomic fingerprints, elucidating immuno-oncology molecular mechanisms, and understanding and reducing disparity in vulnerable populations for gastrointestinal cancer. She plans to pursue a fellowship in surgical oncology with a focus on hepatopancreatobiliary disease.

Gregory T Kennedy, MD
Surgery Resident at: University of Pennsylvania Perelman School of Medicine, Philadelphia, PA
Award Category: Thoracic Surgery
Abstract Title: Evaluation of a Novel GCP2-Targeted Tracer for the Intraoperative Molecular Imaging of Pulmonary Squamous Cell Carcinoma
Co-authors: Feredun S Azari, MD, Elizabeth Bernstein, BS, Sunil Singhal, MD, FACS
Dr Kennedy was born in Boston, MA and received his undergraduate degree from Princeton University. He subsequently completed an MPhil in the history of medicine from the University of Cambridge, where he was a Rotary Ambassadorial Scholar. Dr Kennedy completed his medical education at the University of Pennsylvania, and he has continued his training in general surgery at the Hospital of the University of Pennsylvania, and he is currently a PGY4, pursuing basic and translational research in the intraoperative imaging of thoracic malignancy under the direction of Dr Sunil Singhal. Dr Kennedy’s research is supported by a NIH F32 award and the Daland Fellowship in Clinical Investigation from the American Philosophical Society. After residency, he plans to pursue fellowship training in thoracic surgery and embark upon a career as an academic surgeon-scientist.
Stas Amato, MD  
Surgery Resident at: University of Vermont Medical Center, Burlington, VT  
Award Category: Trauma  
Abstract Title: **Comparison of Statistical Power Among Injury Severity Scores Using the National Trauma Data Bank**  
Co-authors: Stephen Ranney, MD, Jamie Benson, BS, David W Hosmer, PhD, Turner Osler, MD, FACS  
Stas Amato, MD, MSc is a general surgery research resident at the University of Vermont Medical Center. Before becoming a physician at the University of Rochester School of Medicine, Stas studied global health at the University of California, San Francisco and served as a technical officer at the WHO. She is interested in evidence- and science-based health policy. Stas enjoys researching trauma systems and the ecology of diseases that impact surgical patients and outcomes. After completing residency, Stas plans to pursue a fellowship in acute care surgery, trauma, and/or critical care.

Kaylin Beiter, BS  
Medical Student at: Louisiana State University, New Orleans, LA  
Award Category: Trauma  
Abstract Title: **Discrepancy in Mass Shooting and Access to Trauma Care across the US, 2014-2018**  
Co-authors: Alison A Smith, MD, PhD, Alexandra Tedesco, MD, Tommy Brown, MD, Brett M Chapman, MD, Alan B Marr, MD, FACS, Lance E Stuke, MD, FACS, Jonathan E Schoen, MD, Patrick Greiffenstein, MD, FACS and John P Hunt, III, MD, FACS  
Kaylin Beiter is from Lima, NY. She completed her undergraduate studies at the Rochester Institute of Technology, followed by a Fulbright fellowship in Dakar, Senegal. She is currently in the MD/PhD program at the Louisiana State University Health Sciences Center (LSUHSC). Her dissertation work assessed change in violent trauma health disparity in Louisiana during the COVID-19 pandemic with Dr Stephen Phillippi, PhD. Kaylin is presently working with trauma surgeon Dr Alison Smith, MD, PhD at LSUHSC to further understand geographic disparity in gun violence in particular. She is passionate about health equity, and looks forward to residency training in a physician-scientist track towards this end.
Mark E Barry, MD  
Surgery Resident at: University of California San Francisco, San Francisco, CA  
Award Category: Trauma  
Abstract Title: **Mesenchymal Stem Cell-Derived Extracellular Vesicles Mitigate Vascular Permeability and Injury in the Small Intestine and Lung in a Mouse Model of Hemorrhagic Shock and Trauma**  
Co-authors: Byron Miyazawa, BS, Alpa Trivedi, PhD, Praneeti Pathipati, PhD, Deborah M Stein, MD, MPH, FACS, Shibani Pati, MD, PhD  
Mark Barry, MD is a general surgery resident at the University of California, San Francisco (UCSF). He was born in Northern California and attended medical school at the Perelman School of Medicine at the University of Pennsylvania. He is currently in his second of 2 dedicated research years at UCSF, working under the mentorship of Shibani Pati, MD, PhD, studying novel therapy in hemorrhagic shock and trauma. He is interested in pediatric surgery and acute care surgery.

Anand Brahmandam, MBBS  
Surgery Resident at: Yale University School of Medicine, New Haven, CT  
Award Category: Vascular Surgery  
Abstract Title: **Sex Difference in Arterial Identity Is Associated with Neointimal Hyperplasia after Carotid Balloon Injury**  
Co-authors: Mingjie Gao, MD, PhD, Xixiang Gao, MD, PhD, Ryosuke Taniguchi, MD, PhD, Yutaka Matsubara, MD, PhD, Jia Liu, MD, Yang Hua, MD, Alan Dardik, MD, PhD, FACS  
Anand Brahmandam was born and raised in southern India. He received his medical degree from the Rajiv Gandhi University of Health Sciences in Bangalore, India, before starting residency in vascular surgery at Yale University. He is currently a clinical fourth year surgery resident, having recently completed his professional development year in the laboratory of Dr Alan Dardik studying the molecular determinants of arterial and venous remodeling. Dr Brahmandam also has an interest in endovascular device development and in improving surgical outcomes of patients with aortic aneurysm and peripheral arterial disease. After completion of his vascular surgery residency, Dr Brahmandam intends to pursue a career as an academic vascular surgeon-scientist.