

2014–16 Research Residents

The [Accreditation Council for Graduate Medical Education \(ACGME\)](#) strongly encourages residents to engage in laboratory and/or clinical research during their training, and the Department of Surgery is proud to be able to accommodate all residents interested in committing two years to a research fellowship position. Research experiences during residency offer added value to surgical education through increased skills in critical reading, patient advocacy, and the ability to understand and keep abreast with advances in technology and clinical care. Further, research during residency provides a critical education in grantsmanship and collaboration for the many residents who will ultimately pursue academic careers. Five residents began their two-year research fellowships on July 1:



Lacey N. LaGrone, MD

Dr. LaGrone will spend her first year in research completing trauma quality improvement research at the [Harborview Injury Prevention and Research Center](#) with faculty mentors [Dr. Charles Mock](#), Professor in the Division of Trauma, Burn, and Critical Care Surgery; Dr. Frederick Rivara, Professor in the Department of Pediatrics; [Dr. Ronald Maier](#),

Professor and Chief in the Division of Trauma, Burn, and Critical Care Surgery; and Dr. Lisa McIntyre, Associate Professor in the Division of Trauma, Burn, and Critical Care Surgery. Dr. LaGrone will also complete the curriculum for a Master in Public Health in the Department of Global Health. The following year she will conduct trauma quality improvement research in Peru as a Fogarty International Clinical Research Fellow under the mentorship of Dr. Mock and Dr. Joseph Zunt, Professor in the Department of Global Health. Dr. LaGrone is interested in defining barriers to implementation of basic gold-standard measures in trauma care, and identifying resource-specific interventions to address those deficiencies. She ultimately plans to work at an academic trauma center conducting local and global quality improvement research.



Kevin M. Riggle, MD

Dr. Riggle is a research fellow under faculty mentors [Dr. Kimberly Riehle](#), Assistant Professor in the Division of Pediatric General Surgery, and [Dr. Raymond Yeung](#), Professor in the Division of General Surgery. As a part of the Northwest Liver Research Program (NLRP) he will focus primarily on studying fibrolamellar hepatocellular carcinoma

(FLC). Dr. Riggle's goal is to further characterize and understand the potential pathologic role of a recently discovered genetic mutation found in FLC. The group hopes to then identify potential therapeutic targets for treating FLC. Dr. Riggle seeks to further develop a foundation in research methodology and molecular biology techniques. He plans to use this experience to pursue an academic career in pediatric surgery.



Barclay T. Stewart, MD

Dr. Stewart is a National Institute of Health Fogarty Global Health Fellow working to improve surgical care in low- and middle-income countries (LMICs) under mentors [Dr. Charles Mock](#), Professor in the Division of Trauma, Burn, and Critical Care Surgery; Dr. Joseph Zunt, Professor in the Department of Global Health; and Dr. Peter

Donkor, Professor of Oral and Maxillofacial Surgery at the Kwame Nkrumah University of Science and Technology (KNUST) in Ghana. His research is focused on pragmatic solutions to enhance care of the injured, burned and those in need of emergency surgery in health facilities in Ghana. In addition, he is studying surgical epidemiology in complex humanitarian emergencies and from population-based studies of surgical need and injury burden in Nepal, Sierra Leone and Iraq. Dr. Stewart wishes to pursue a career in trauma, burns and acute care surgery with attention on LMICs. Ultimately, he will bring evidence-based decision making to humanitarian aid and surgical capacity development in LMIC health-systems.



Brodie Parent, MD

Dr. Parent works as a T32 research trainee under the mentorship of [Dr. Grant O'Keefe](#), Professor in the Division of Trauma, Burn, and Critical Care Surgery, and [Dr. Eileen Bulger](#), Professor in the Division of Trauma, Burn, and Critical Care Surgery. He is engaged in translational research related to the field of metabolomics. Dr. Parent plans

to explore various metabolic byproducts present in trauma patients, and assess the diagnostic utility of these markers in conditions like malnutrition, sepsis, and compartment syndrome. In particular, he will characterize the metabolic profile of critically-ill pediatric trauma patients in the context of supplemental nutrition. He will also perform clinical research related to the radiographic and laboratory evaluation of the pediatric trauma patient. As part of the T32 fellowship, Dr. Parent will also be pursuing a Master of Science in Epidemiology from the University of Washington School of Public Health.



Anne E. Pugel, MD

Dr. Pugel is a T32 research trainee under the direction of [Dr. David Flum](#), Professor of Surgery in the Division of General Surgery. Her primary focus will be in the realm of Decision Science. She is interested in learning more about the drivers of decision-making for both patients and providers, and will build upon previous research done in the

field of appendicitis to help elucidate and understand these drivers. Much of this work will be carried out in a multi-disciplinary fashion with investigators from various other fields. In addition, Dr. Pugel is enrolled in the University of Washington Master of Public Health program to help grow her knowledge of research methods and data analysis. She eventually plans to pursue a fellowship in Minimally Invasive Surgery with a career in academic surgery.