

RESIDENT RESEARCH IN THE UW DEPARTMENT OF SURGERY



Dear Prospective Residents,

We are excited that you are considering the University of Washington for your residency. This is a dynamic department that offers comprehensive training in both the clinical practice of surgery and other components of professional development that will help you be successful in the years ahead. For many of you that involves research. Within the Department of Surgery (DOS), the Division of Research strives to strengthen and support our research community, encourage a culture of inquiry, and conduct research that is innovative and impactful. We aim to be the premier home for surgical research and look forward to you being a part of our research mission during your training.

We are consistently ranked as one of the top programs in the nation for NIH and extramurally funded research. As such, there are many opportunities for you to participate in during your residency. For those who choose to pursue the research track, the Department has two NIH-sponsored T32 research training programs: the NIGMS Institutional Postdoctoral Research Fellowship in Trauma, Injury and Inflammation in basic science, led by [Grant O'Keefe](#), MD; and one in clinical and health services research led by faculty at the [Surgical Outcomes Research Center \(SORCE\)](#). Beyond these training programs, and available to all residents regardless of clinical or research track, the department includes faculty members eager to work with you in their labs, on clinical research projects or help develop and support your research ideas. No matter the path you choose for research, we are committed to helping you develop as a researcher and supporting you in your career development as a surgeon-scientist.

Research in the DOS is organized into 10 cores: Injury, Burn, and Inflammation; Cancer; Reperfusion; Transplant; Device and Pharmaceutical Clinical Trials; Vascular Biology; Gastrointestinal Physiology and Metabolism; Simulation and Education; Global and Rural Health; and Health Services. Each of these cores includes faculty with substantial experience who are excited to work with you in short-term research projects as well as longer research fellowships.

This publication highlights the work of residents, most of whom are currently undertaking two-year research fellowships. You can learn more about all resident research opportunities by visiting the [research section](#) of the DOS website. There you will find investigator profiles, information about our many research labs and centers, abstracts from the most recent Schilling Research Symposium, and much more. We hope you will join us in pursuing research during your time as a surgical resident and welcome you to be part of what we believe is the premier home for surgical research.

Sincerely,



A handwritten signature in black ink, appearing to read "D. Flum".

David R. Flum, MD, MPH, FACS
Professor of Surgery
Adjunct Professor
Department of Health Systems
& Population Health
Vice Chair for Research
Department of Surgery
Director, Surgical Outcomes
Research Center (SORCE)



A handwritten signature in black ink, appearing to read "Meghan Flanagan".

Meghan Flanagan, MD, MPH
Associate Professor of Surgery
Director, Research Training,
Division of Research
Department of Surgery
Affiliate Investigator,
Division of Public Health Sciences,
Fred Hutch Cancer Center

2024-25 RESEARCH RESIDENTS



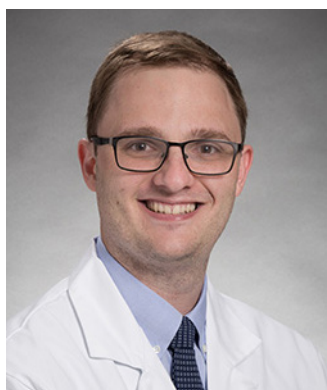
GRIFFEN ALLEN, MD, MBE

Dr. Allen is a PGY-4 beginning his research years as a [Surgical Outcomes Research Center](#) (SORCE) T32 fellow. He is originally from southern Georgia, though attended college at Colby College in Maine completing a degree in philosophy. He obtained a masters degree in bioethics from Harvard University prior to attending the Medical College of Georgia, where he developed an interest in surgical outcomes and surgical palliative care. While a General Surgery resident at the University of Washington (UW), he developed an interest in colorectal surgery, and is looking forward to joining these interests through continued work in surgical palliative care and surgeon communication, colorectal surgical outcomes, and exploring health economics and large database research methods. He will also be completing a Masters of Science in Health Services at the University of Washington School of Public Health. Some of his current projects include exploring the economic implications of non-operative management of appendicitis, surgical outcomes of neutropenia patients, and he is looking forward to working with the trial data from the COSMID trial on diverticulitis.



JAMIE OLAPO, MD

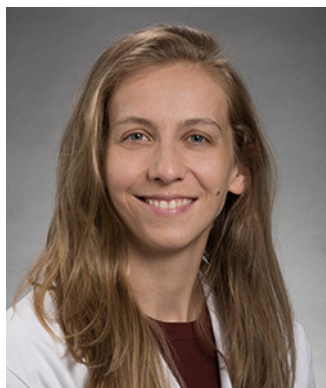
Dr. Olapo is a current PGY-4 General Surgery Resident beginning her research years as a [Surgical Outcomes Research Center](#) (SORCE) NIH T32 Research fellow. She is originally from Oconomowoc, WI and moved to Seattle for residency with her husband, Ayoola, and Belgian Malinois pup, Simba! She has clinical interests in breast surgical oncology and integrative medicine. This translates to her research interests in the impact holistic medicine and nutrition can have on surgical outcomes and using food as medicine. Additionally, she has plans to work on secondary prevention of recurrence of common gastrointestinal surgical diseases through lifestyle modifications. Outside of the hospital, she can be found spending time in the mountains or training for her next upcoming triathlon!



JASON CARTER, MD, PHD

Dr. Carter is a research fellow in the UW Tumor Immune Microenvironment (TIME) Lab under the mentorship of Dr. [Venu Pillarisetty](#), Professor of Surgical Oncology. Building upon a background in computational immunology, Jason's research interests focus on improving our mechanistic understanding of immunosuppression within the tumor microenvironment of hepatobiliary cancers, including a rare form of liver cancer known as fibrolamellar carcinoma. The project aims to combine a unique human tumor slice culture model with a variety of spatial and multi-omics approaches and the long-term goal of developing new, targeted immunotherapies. Dr. Carter plans to pursue a career in surgical oncology as a surgeon-scientist and is currently supported by the Career Development Award through the Department of Defense's Peer Reviewed Cancer Research Program.

2024-25 RESEARCH RESIDENTS



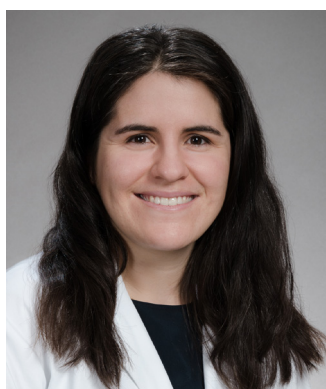
KRISTIN GOODSSELL, MD

Dr. Goodsell is a PGY-4 General Surgery resident joining the UW Tumor Immune Microenvironment (TIME) Lab under the mentorship of Dr. [Venu Pillarisetty](#). Using the tumor slice culture platform, which was developed to study the immune microenvironment of solid tumors, she plans to investigate immune signaling pathways in metastatic colorectal cancer and other surgical malignancies. She also plans to continue working under the guidance of affiliate faculty Dr. James Park and faculty within the department of radiation oncology on refining a theranostic platform to improve imaging and drug delivery in the diagnosis and treatment of hepatocellular carcinoma. She looks forward to her research years training as a surgeon-scientist and plans to pursue a career in academic surgery.



DIVYA RAMAKRISHNAN, MD

Dr. Ramakrishnan is a T32 research fellow in [Gastrointestinal Surgical Outcomes Research](#) funded by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) in the [Surgical Outcomes Research Center](#) (SORCE). She is passionate about improving communication - in team/leadership settings, surgical and medical education, as well as with patients. She is also interested in studying burnout and finding ways to improve wellness in surgery. Dr. Ramakrishnan's current research projects include studying how surgeons can best communicate risk with patients. She is also conducting qualitative and survey research evaluating psychological safety in surgical education, both from the educator and learner perspective.



ALEXANDRA HERNANDEZ, MD

Dr. Hernandez is a PGY-4 General Surgery Resident beginning her research years as a [Surgical Outcomes Research Center](#) (SORCE) T32 Fellow. She is originally from Southern California, attended the University of Washington for undergraduate studies, Oregon Health and Science University for medical school, and returned to UW for General Surgery Residency. She has a background in qualitative work through prior education research and completed an ethnographic study on gender bias involving structural competency, which introduced her to Trauma Informed Care. This work ignited her interest in the care of traumatically injured patients, focusing on mental health and functional recovery after injury.

FROM RESEARCH RESIDENT TO ACADEMIC SURGEON

GIANA H. DAVIDSON, MD, MPH, FACS

Associate Professor, Department of Surgery
Adjunct Associate Professor, Department of Health Systems and Population Health
Assistant Dean for Professional Development, Office of Faculty Affairs, UW Medicine
Chief, Section of Emergency General Surgery



“During my clinical training in General Surgery, I completed a two-year research fellowship to gain expertise in outcomes and health services research. This program was in the Pediatric Injury Research T32 program under the mentorship of Dr. Frederick Rivara and Drs. [Saman Arbabi](#) and [Eileen Bulger](#) at the [Harborview Injury Prevention and Research Center](#). During these two years, I completed my Master of Public Health in Epidemiology and gained invaluable experience in grant writing and outcomes research, allowing me to publish and present our work at various surgical and public health conferences. This was the foundation for my current research focused on pragmatic clinical trials to better understand how we can improve patient-centered health outcomes, especially for those who are at higher risk for poor outcomes in our healthcare system. In addition to my academic projects during my research training, my husband and I expanded our family (of two dogs) to include two children and five chickens! My research fellowship years were a wonderfully busy time in my life. The mentoring, training in epidemiology and statistics, and departmental support were instrumental in launching my career in academic surgery and as faculty in obtaining independent funding as a surgeon-scientist. One of the best parts of my job is the opportunity to mentor our current surgical research fellows and to be able to support them in finding their passion in clinical research.”

ACCOMPLISHMENTS FROM FELLOWSHIP

DEGREE

Master's in Public Health, Epidemiology

NOTABLE PUBLICATIONS

1. Davidson GH, Hamlat CA, Rivara FP, Koepsell TD, Jurkovich GJ, Arbabi, S. Long-term Survival of Adult Trauma Patients. JAMA. 2011;305(10):1001–1007.
2. Davidson GH, Rivara FP, Arbabi S. Trauma and Long-term Mortality–Reply. JAMA. 2011;305(23):2413–2414.
3. Davidson GH, Maier RV, Arbabi S, Goldin AB, Rivara FP. Impact of Operative Delay on Pediatric Trauma Outcomes. J Trauma Acute Care Surg. 2012 Jul;73(1):162–7.
4. Davidson GH, Rivara FP, Mack CD, Kaufman R, Jurkovich GJ, Bulger ME. Validation of Pre-Hospital Trauma Triage Criteria for Motor Vehicle Collisions. J Trauma Acute Care Surg. 2014 March; 76(3):755–761.

AWARDS AND HONORS

- 1st place, American College of Surgeons Committee on Trauma Resident Paper Competition
- 1st place, American College of Surgeons Committee on Trauma. WA Committee on Trauma clinical paper presentation Tacoma, WA. November 2010.

FROM RESEARCH RESIDENT TO ACADEMIC SURGEON



FARHOOD FARJAH, MD, MPH, FACS

Endowed Chair in Lung Cancer Research

Associate Professor, Division of Cardiothoracic Surgery

Associate Medical Director, Surgical Outcomes Research Center

“I interrupted my clinical training in General Surgery to pursue a post-doctoral fellowship in outcomes and health services research under the mentorship of Drs. [David Flum](#) and [Douglas Wood](#) through the [Surgical Outcomes Research Center](#). During that time, I obtained a Master of Public Health in Epidemiology and completed post-doctoral level coursework in biostatistics and health services research. In addition, I gained practical experience studying the delivery of care and outcomes of

patients with lung cancer using the Surveillance, Epidemiology, and End-Results (SEER)-Medicare database. Moreover, I cultivated a diverse network of mentors and collaborators throughout the department and institution. This unparalleled experience was critical in providing me the training, experience, and networks to legitimately pursue a career in academic surgery. The research products listed below vastly underestimate what I gained from the research fellowship.”

ACCOMPLISHMENTS FROM FELLOWSHIP

NOTABLE PUBLICATIONS

1. Farjah F, Symons RG, Krishnadasan B, Wood DE, Flum DR. Management of pleural space infections: a population-based analysis. *J Thorac Cardiovasc Surg.* 2007 Feb;133(2):346-351.
2. Farjah F, Wood DE, Yanez D 3rd, Symons RG, Krishnadasan B, Flum DR. Temporal trends in the management of potentially resectable lung cancer. *Ann Thorac Surg.* Jun 2008;85(6):1850-1855; discussion 1856.
3. Wood DE, Farjah F. Global differences in the training, practice, and interrelationship of cardiac and thoracic surgeons. *Ann Thorac Surg.* 2009 Aug;88(2):515-521; discussion 521-512.
4. Lao OB, Farjah F, Flum DR, Yeung RS. Adverse events after radiofrequency ablation of unresectable liver tumors: a single-center experience. *Am J Surg.* 2009 Jul;198(1):76-82.
5. Farjah F, Wood DE, Yanez ND 3rd, Vaughan TL, Symons RG, Krishnadasan B, Flum DR. Racial disparities among patients with lung cancer who were recommended operative therapy. *Arch Surg.* Jan 2009;144(1):14-18.
6. Farjah F, Flum DR, Ramsey SD, Heagerty PJ, Symons RG, Wood DE. Multi-modality mediastinal staging for lung cancer among Medicare beneficiaries. *J Thorac Oncol.* Mar 2009;4(3):355-363.
7. Farjah F, Flum DR, Varghese TK Jr, Symons RG, Wood DE. Surgeon specialty and long-term survival after pulmonary resection for lung cancer. *Ann Thorac Surg.* Apr 2009;87(4):995-1004; discussion 1005-1006.
8. Farjah F, Wood DE, Mulligan MS, Krishnadasan B, Heagerty PJ, Symons RG, Flum DR. Safety and efficacy of video-assisted versus conventional lung resection for lung cancer. *J Thorac Cardiovasc Surg.* Jun 2009;137(6):1415-1421.
9. Farjah F, Wood DE, Varghese TK Jr, Massarweh NN, Symons RG, Flum DR. Health care utilization among surgically treated Medicare beneficiaries with lung cancer. *Ann Thorac Surg.* Dec 2009;88(6):1749-1756.
10. Wood DE, Farjah F. Training, certification and practice of cardiac and thoracic surgeons in Europe: a comparison of the members of the European Association for Cardio-Thoracic Surgery and the European Society of Thoracic Surgeons. *Eur J Cardiothorac Surg.* 2010 Mar;37(3):511-515.

FROM RESEARCH RESIDENT TO ACADEMIC SURGEON

AWARDS AND HONORS

- 2007 Ruth L. Kirschstein National Research Service Award, (NIH/NCI)
- 2008 Looking to the Future Scholarship, Society of Thoracic Surgeons
- 2008 3rd Prize—14th Resident Research Symposium, University of Washington, Department of Surgery
- 2009 Society of Thoracic Surgeons J. Maxwell Chamberlain Memorial Paper

NOTABLE PRESENTATIONS

1. Farjah F, Wood DE, Varghese TK, Massarweh NN, Symons RG, Flum DR. Adverse events following pulmonary resection for lung cancer. American College of Surgeons 94th Annual Clinical Congress, October 2008, San Francisco, CA. Oral presentation.
2. Farjah F, Wood DE, Varghese TK, Massarweh NN, Symons RG, Flum DR. Non-fatal adverse events following pulmonary resection: a performance-based quality metric for hospital level care. Combined Washington and Oregon Chapters American College of Surgeons Meeting, June 2008, Stevenson, WA. Oral presentation.
3. Farjah F, Wood DE, Yanez D 3rd, Symons RG, Krishnadasan B, Flum DR. Temporal trends in the management of potentially resectable lung cancer. Society of Thoracic Surgeons 44th Annual Meeting. Fort Lauderdale, Florida. January 2008.
4. Farjah F, Flum DR, Varghese TK Jr, Symons RG, Wood DE. J. Maxwell Chamberlain Memorial Paper for General Thoracic: Surgeon specialty and long-term survival following pulmonary resection for lung cancer. Society of Thoracic Surgeons 45th Annual Meeting. San Francisco, California. January 2009.



MEGHAN R. FLANAGAN, MD, MPH

Associate Professor, Division of General Surgery

Affiliate Investigator, Fred Hutch Cancer Center

Director, Research Training, Division of Research, Department of Surgery

Chair, Commission on Cancer, Fred Hutch Cancer Center/University of Washington

Medical Director, UWMC-NW Breast Surgery Clinic

“When I started residency, I knew wanted to either become a breast surgeon or a trauma surgeon. As I progressed in my clinical training, I was drawn to the relationships the breast surgeons had with their patients and also loved the multi-faceted research opportunities in

breast surgical oncology. During my research years I was fortunate to be selected for a 2-year T32 in Cancer Epidemiology and Biostatistics through the Fred Hutch Research Center. Through this fellowship I completed my Master’s in Public Health and worked with clinical mentors to put my knowledge about different research methodologies to work! I enjoyed being able to use new skills to ask and answer questions from large databases. My productivity during this time was undoubtedly a major factor that led to my acceptance into a breast surgical oncology fellowship at Memorial Sloan Kettering Cancer Center. The skills learned and connections made during my research time have been the foundation of my success as a surgeon scientist in my first few years in clinical practice. During my research years I also was married and was able to travel and spend time with friends and family which can be difficult to do during the intense clinical years of general surgery residency.”cal Learning Environment Review objectives and electronic medical record Meaningful Use requirements. Am J Surg. 2016; 211(2):390-7.

ACCOMPLISHMENTS FROM FELLOWSHIP

AWARDS AND HONORS

- 2013 Patient Safety Innovation Award, University of Washington Medical Center
- 2015 Patient Safety Hero, University of Washington Medical Center
- 2016 American College of Surgeons Leadership and Advocacy Summit Resident Grant, American College of Surgeons
- 2016 David C. Leach Award, Accreditation Council for Graduate Medical Education

NOTABLE PUBLICATIONS

1. Flanagan MR, Rendi MH, Gadi VK, Calhoun KE, Gow KW, Javid SH. Adjuvant endocrine therapy in patients with ductal carcinoma in situ: a population-based retrospective analysis from 2005 to 2012 in the National Cancer Database. *Ann Surg Oncol*. 2015; 22(10):3264-72.
2. Flanagan MR, Varghese TK, Backhus LM, Wood DE, Mulligan MS, Cheng AM, Flum DR, Farjah FF. Gaps in guideline concordant use of diagnostic tests among lung cancer patients. *Ann Thorac Surg*. 2015; 100(6):2006-12.
3. Flanagan MR, Rendi MH, Calhoun KE, Anderson BO, Javid SH. Pleomorphic lobular carcinoma in situ: radiologic-pathologic features and clinical management. *Ann Surg Oncol*. 2015; 22(13):4263-4269.
4. Flanagan MR and Foster CC, Schleyer A, Peterson GN, Mandell SP, Rudd KE, Joyner BD, Payne TH. Aligning institutional priorities: engaging house staff in a quality improvement and safety initiative to fulfill Clinical Learning Environment Review objectives and electronic medical record Meaningful Use requirements. *Am J Surg*. 2016; 211(2):390-7.
5. Simianu VV, Varghese TK, Flanagan MR, Flum DR, Shankaran V, Oelschlager BK, Mulligan MS, Wood DE, Pellegrini CA, Farjah FF. Positron emission tomography for initial staging of esophageal cancer among Medicare beneficiaries. *J Gastrointest Oncol*. 2016; 7(3):395-402.

NOTABLE PRESENTATIONS

1. Flanagan MR, et al. Process-of-Care Utilization in Lung Cancer Surgery. Oral presentation at American College of Surgeons Clinical Congress (October 2014; San Francisco, CA).
2. Flanagan MR, Rendi MH, Gadi VK, Calhoun KE, Gow KW, Javid SH. Adjuvant Endocrine Therapy in Patients with Ductal Carcinoma in Situ in the National Cancer Database. Oral presentation at the American Society for Breast Surgeons Annual Meeting (May 2015; Orlando, FL).

FROM RESEARCH RESIDENT TO ACADEMIC SURGEON



JONATHAN G. SHAM, MD, MBEE, FACS, FSSO

Hepatopancreatobiliary Surgical Oncology
Assistant Professor, Department of Surgery
Washington State Chair, Commission on Cancer
President, Harkins Society
University of Washington | Fred Hutchinson Cancer Center

“During my clinical training in General Surgery, I completed a two-year research fellowship to gain expertise in translational science methodologies and biotechnology development. I accomplished this under the mentorship of Drs. James Park (Surgery) and Miqin Zhang (Materials Science & Engineering) through the T32 Research Fellowship in Nanotechnology and Physical

Science in Cancer Research (NPSCR). During this time, I gained invaluable experience in experimental design, therapeutics delivery, and advanced imaging. I submitted multiple patents, won multiple awards, and laid the foundation for my Masters training in Biotechnology Entrepreneurship. In addition to my academic productivity, I was able to travel with my wife, and pick up a few hobbies including aerial photography and sailing! I often look back at my two year research fellowship as two of the best years of my life—intellectual rigor, professional development, balance, and a lot of fun.”

ACCOMPLISHMENTS FROM FELLOWSHIP

NOTABLE PUBLICATIONS

1. Sham JG, Kievit FM, Grierson JR, Miyaoka RS, Yeh MM, Zhang M, Yeung RS, Minoshima S, Park JO. Glypican-3-Targeted 89Zr PET Imaging of Hepatocellular Carcinoma. *Journal of Nuclear Medicine*. 2014 May;55(5):799-804. PMID: PMC4116087
2. Sham JG, Simianu VV, Wright AS, Stewart SD, Alloosh M, Sturek M, Cummings DE, Flum DR. Evaluating the mechanisms of glucose homeostasis after bariatric surgery in Ossabaw miniature swine. *Journal of Diabetes Research*. 2014;526972. PMID: PMC4158302
3. Sham JG, Kievit FM, Grierson JR, Chiarelli PA, Miyaoka RS, Zhang M, Yeung RS, Minoshima S, Park JO. Glypican-3-Targeting F(ab')₂ for 89Zr PET of Hepatocellular Carcinoma. *Journal of Nuclear Medicine*. 2014 Oct;55(11):1-6. PMID: PMC4259878
4. Sham JG, Richards MK, Seo YD, Pillarisetty VG, Yeung RS, Park JO. Efficacy and Cost of Robotic Hepatectomy: Is the Robot Cost-Prohibitive? *J Robotic Surgery*. 2016 Dec;10(4):307-313. PMID: 27153838

AWARDS AND HONORS

- Alavi-Mandell Award - Society of Nuclear Medicine & Medical Imaging
- 1st Prize – Best Oral Presentation. University of Washington Department of Surgery 20th Annual Helen and John Schilling Research Symposium. 2014.
- 1st Prize – Best Oral Presentation. University of Washington Graduate Medical Education Research Day. 2014.
- 1st Prize – Best Oral Presentation. American College of Surgeons Washington-Oregon Chapters Annual Meeting. 2014.

FROM RESEARCH RESIDENT TO ACADEMIC SURGEON

PRESENTATIONS

1. Sham JG, Berquist J, Park JO. Robotic hepatopancreatobiliary surgery: a safe and effective option. Seattle Surgical Society 102nd Annual Meeting. 2012. Seattle, WA.
2. Sham JG, Park JO, Yeh MM, Mann GN. Focal nesidioblastosis: a distinct pathologic entity mimicking insulinoma. University of Washington Department of Surgery 18th Annual Helen and John Schilling Research Symposium. 2012. Seattle, WA.
3. Sham JG, Yeung RS, Park JO. Robotic hepatectomy: a safe and cost-effective option. American College of Surgeons Washington-Oregon Chapters Annual Meeting. 2012. Sunriver, OR.
4. Sham JG, Kievit F, Stephen Z, Wang, K, Zhang M, Park JO. siRNA for Gene Silencing in Hepatocellular Carcinoma. University of Washington Department of Surgery 19th Annual Helen and John Schilling Research Symposium. 2013. Seattle, WA.
5. Sham JG, Kievit F, Grierson, J, Zhang M, Minoshima S, Park JO. Antibody-targeted micro-PET imaging of hepatocellular carcinoma. American College of Surgeons Washington-Oregon Chapters Annual Meeting. 2013. Chelan, WA.
6. Sham JG, Kievit FM, Grierson JR, Miyaoka RS, Yeh MM, Zhang M, Yeung RS, Minoshima S, Park JO. Novel Antibody-targeted 89Zirconium PET Imaging of Hepatocellular Carcinoma. University of Washington Department of Surgery 20th Annual Helen and John Schilling Research Symposium. 2014. Seattle, WA.
7. Sham JG, Richards MK, Pillarisetty VG, Yeung RS, Park JO. Efficacy and Cost-Effectiveness of Robotic Hepatectomy. Society of Surgical Oncology 67th Annual Cancer Symposium. 2014. Phoenix, AZ.
8. Sham JG, Simianu VV, Wright AS, Stewart SD, Alloosh M, Sturek M, Cummings DE, Flum DR. Evaluating the mechanisms of glucose homeostasis after bariatric surgery in Ossabaw miniature swine. University of Washington Department of Surgery 21st Annual Helen and John Schilling Research Symposium. 2014. Seattle, WA.
9. Sham JG, Kievit FM, Grierson JR, Miyaoka RS, Yeh MM, Zhang M, Yeung RS, Minoshima S, Park JO. Clinical Enhancement of 89Zr-PET imaging using anti-F(ab')₂-Glypican-3 Fragments. International Hepatopancreatobiliary Association World Congress. 2014. Seoul, South Korea.
10. Sham JG, Kievit FM, Grierson JR, Miyaoka RS, Yeh MM, Zhang M, Yeung RS, Minoshima S, Park JO. Novel Antibody-targeted 89Zirconium PET Imaging of Hepatocellular Carcinoma. Society of Surgical Oncology 67th Annual Cancer Symposium. 2014. Phoenix, AZ.
11. Sham JG, Kievit FM, Grierson JR, Miyaoka RS, Yeh MM, Zhang M, Yeung RS, Minoshima S, Park JO. Clinical Enhancement of 89Zr-PET imaging using anti-F(ab')₂-Glypican-3 Fragments. University of Washington Graduate Medical Education Research Day. 2014. Seattle, WA.
12. Shibuya KC, Goel VK, Xiong W, Sham JG, Pollack SM, Leahy AM, Whiting SH, Yeh MM, Yee C, Riddell SR, Pillarisetty VG. Pancreatic Ductal Adenocarcinoma Contains an Effector and Regulatory Immune Cell Infiltrate that is Altered by Multimodal Neoadjuvant Treatment. American College of Surgeons Washington-Oregon Chapters Annual Meeting. 2014. Sunriver, OR.
13. Sham JG, Park JO. Diagnosis and Management of a Type IIIb Choledochal Cyst. American College of Surgeons Clinical Congress. 2014. San Francisco, CA.

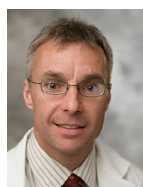
FUNDED RESEARCH TRAINING PROGRAMS

The University of Washington is a rich environment for resident research, with many clinical investigators across departments and schools available to serve as mentors and resources for funding. Some examples of popular, ongoing NIH-funded training programs are below, but there are numerous opportunities for funding through grants and other mechanisms. We will work with you to find the right fit to accomplish your professional goals.



GASTROINTESTINAL SURGERY OUTCOMES RESEARCH T32 PROGRAM

PI: **DAVID FLUM**, MD, MPH
DEPARTMENT OF SURGERY



T32 NIH-NIGMS INSTITUTIONAL POSTDOCTORAL RESEARCH FELLOWSHIP IN TRAUMA, INJURY AND INFLAMMATION

PI: **GRANT O'KEEFE**, MD, MPH
DEPARTMENT OF SURGERY

**THERE ARE 45 OTHER
TRAINING GRANTS IN
THE SCHOOL OF
MEDICINE, INCLUDING
THESE PROGRAMS**

NORTHERN/PACIFIC FOGARTY GLOBAL HEALTH FELLOWSHIP

PALLIATIVE CARE RESEARCH T32 FELLOWSHIP PROGRAM

PEDIATRIC INJURY RESEARCH TRAINING PROGRAM

NIH LOAN REPAYMENT PROGRAM (LRP)

To encourage health professionals to pursue careers in biomedical, behavioral, social, and clinical research, the NIH Loan Repayment Program may repay up to \$35,000 of qualified student loan debt per year for individuals committing at least two years to conducting qualified research funded by a domestic nonprofit organization or U.S. federal, state, or local government entity. This loan repayment benefit is in addition to institutional salary received during your time in research. Learn more about this program at [National Institutes of Health-Division of Loan Repayment](#).

LEARN MORE ABOUT DEPARTMENT OF SURGERY RESEARCH

This brochure covers research conducted by the current cohort of residents who have undertaken a structured two-year research fellowship, but there are many other opportunities to pursue shorter-term, discrete projects throughout your residency. To learn more about these opportunities, please be sure to visit the [research section](#) of the Department of Surgery website.



DEPARTMENT OF SURGERY RESIDENT RESEARCH LEADERSHIP

Douglas E. Wood, MD, FACS, FRCSEd
The Henry N. Harkins Professor and Chair

David R. Flum, MD, MPH, FACS
Professor of General Surgery
Vice Chair for Research

Jeffrey B. Friedrich, MD, MC
Professor of Plastic Surgery
Vice Chair for Education

Grant O'Keefe, MD, MPH
Professor of Trauma, Burn and Critical Care

Susan Marx, MBA, PMP
Vice Chair, Finance and Administration

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Associate Director, Clinical Finance and Programs

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