

**UW School of Medicine and Public Health**  
**2019 Shapiro Summer Research Projects, by department**

Student	Mentor	Mentor Department	Title of Proposed Research Project
Angles, Justin, M	Cios, Hubert, MD	Anesthesiology	Impact on pain of Quadrates Lumborum Blocks on Laparoscopic Ventral Hernia Repairs
Blair, Alexander, F	Sanders, Robert, BSc (Hons) MBBS PhD FRCA	Anesthesiology	Implicit Memory in the Sedated Patient
Falls, Cody, Joseph	Abd-Elseyed, Alaa, MD, MPH.	Anesthesiology	Role of Radiofrequency Ablation in the Treatment of Refractory Headaches
Hayter, Ryan R	Hess, Aaron, MD, PhD	Anesthesiology	Anesthesiology Numeracy Study
Kayser, Austin, D	Sanders, Robert, MD PhD	Anesthesiology	Association of preoperative serum total tau and postoperative delirium
Luo, Susan	Abd-Alsayed, Alaa, MD, MPH	Anesthesiology	TAP Blocks for Treating Chronic Abdominal Pain
Peotter, Ashley, M	Groose, Molly, MD, MS	Anesthesiology	Predictive value of dobutamine stress echocardiography in liver transplant recipients
Krouse, Adam	Borden, Shelly MD	Anesthesiology	Department of Anesthesiology History Research - Ralph Waters, MD
Hernandez, Jose Bien Rafaelo, R	Kim, Peggy, MD MS MBA	Anesthesiology	The Role of Patient Education in Addressing Barriers to Cancer Pain Management
Barretto, Karina Teresa, T	Mosher, Deane, MD	Biomolecular Chemistry	Coordinated Calcium Dynamics of Motile Eosinophils
Swain, William	Ge, Ying, Ph.D	Cell and Regenerative Biology	A Comprehensive, Accurate Cardiac Troponin I assay enabled by Nano-Proteomics
Kenfield, Meaghan, R	Arkin, Lisa, MD	Dermatology	Laser Hair Removal As Primary Treatment of Pilonidal Disease Requiring Surgical Intervention
Tabaro Marrero, Giancarlo	Arkin, Lisa, MD	Dermatology	Characterizing outcomes of patients with pilonidal disease
Goebel, Collin, P	Reeder, Margo, MD	Dermatology	Quantification of Formaldehyde in Textiles: Impact on Allergic Contact Dermatitis
Muesch, Aaron, JH	Ward, Michael, MD	Emergency Medicine	Measuring the effects of history and physical exam on radiographic ordering and findings for elderly patients evaluated after a ground level fall
Williams, Jeremy, R	Svenson, James, MD	Emergency Medicine	The Effects of Trauma Activation on Mortality and Morbidity Outcomes of Low-Acuity Falls for Elderly Patients on Blood Thinners

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Clegg, Alex, W	Patterson, Brian, MD, MPH	Emergency Medicine	Estimating Fall Risk Among Older Adults Using Electronic Health Record Data
Sheth, Amber, M	Schmidt, Jessica, MD, MPH	Emergency Medicine	Acute and emergency care needs assessment in San Lucas Tolimán, Guatemala
Huang, Andrew P	Shah, Manish, MD	Emergency Medicine	A. Improving the ED to Home Transition: Building a Community Paramedicine Model for Persons with Dementia
Maginot, Elizabeth R	Pulia, Michael S, MD MS	Emergency Medicine	Barriers to Optimal Antibiotic Prescribing for Older Adults in the Emergency Department
Haile, Sofia, A	Temte, Jon, MD	Family Medicine	Community Health Center "Service Agreement" Evaluation - Improving Primary Care in China
Sosa, Gustavo, A	Morris, Zachary, MD/PhD	Human Oncology	In Vivo Efficacy of NKTR-214, Immune Checkpoint Inhibition, and Targeted Radiation Therapy in Syngeneic Murine Models of Head and Neck Cancer
Massoud, Elian	Morris, Zachary, MD/PhD	Human Oncology	Combining radiotherapy and immune checkpoint therapy is growing rapidly to enhance antitumor immune responses in preclinical murine models of squamous cell carcinoma
Enright, Thomas, L	Bashnagel, Andrew, MD	Human Oncology	Deep Learning Predictors of Recurrence Using MRI-Based Radiomics for Patients Treated with Stereotactic Radiosurgery
Condit, Kevin M	Baschnagel, Andrew, MD	Human Oncology	Evaluation of radiographic predictors of a local, regional, and distant recurrence
Griffith, Alex J	Kimple, Randall, MD/PhD	Human Oncology	Prediction of imaging response to chemoradiation using pre-treatment biomarkers
Dantoin, Claudia, G	Lamming, Dudley, PhD	Medicine	Examining the Effects of Specific Dietary Amino Acids on Metabolic Health
Depke, Mitchell, G	Deming, Dustin, MD	Medicine	Cancer-associated fibroblast engraftment to model the pancreatic cancer tumor microenvironment in murine allografts
Shapiro, Samantha, L	Puglielli, Luigi, MD/PhD	Medicine	Assessing the Role of ATG9A/FAM134B Interactions in Aging-Associated Reticulophagy
Sheveland, Emily Rae	Nett, Jeniel E MD, PhD	Medicine	O-mannosylation of C. auris and its Role in Neutrophilic Evasion
Wartgow, Kelsey, L	Davis, Dawn, MD, PhD	Medicine	Pharmacotherapeutic Potential of Cholecystokinin-A-Receptor Agonist in Protecting Human Pancreatic Islets Against Transplantation-Induced Apoptotic Stress in Hyperglycemic Host
Arndorfer, Daniel, R	Raval, Amish, MD	Medicine	Is Myeloid-Derived Growth Factor an Effector Protein From Cardiac Matrix Educated Monocytes?

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Qyli, Tonela	Deming, Dustin, MD	Medicine	Versican and its proteolysis as a biomarker of CD8+ T cell infiltration in human breast adenocarcinoma
Bischel, Kristen, M	Deming, Dustin, MD	Medicine	Cancer associated fibroblasts
Le, Jonathan, N	Raval, Amish, MD	Medicine	Improving Imaging for Interventionalists who Perform Transcatheter Valve Procedures
Beamish, Claire, C	Waheed, Sana, MD	Medicine	Outcomes of Renal Biopsies at University of Wisconsin Health
Liu, Fan-Jean	Bhutani, Gauri, MBBS	Medicine	Novel Imaging Techniques for Kidney Volume Assessment and Prognostication in Polycystic Kidney Disease
Srivastava, Aniruddha	Parajuli, Sandesh, MBBS	Medicine	Serum Albumin Levels Prior To Kidney Transplant Predicts Posttransplant Infections
Stewart, Taylor P	Tevaarwerk, Amye J, MD	Medicine	Re-designing survivorship care plans to better address primary cancer information needs
Bodnar, Joshua T	Parajulli, Sandesh, MD	Medicine	Outcomes of delayed graft function in elderly kidney transplant recipients with a marginal kidney (high KDPI)
Millevolte, Rosina, K	Kim, Nayoung, PhD	Medicine	Reach and Representativeness of Referring Primary Care Populations to Smoking Cessation and Reduction Programs via Fax & EHR
Rajan, Shruti	Westergaard, Ryan	Medicine	Novel Strategies for Prevention Service Coordination for Drug-Utilizers in Rural Communities
Chovanec, Jack, F	Nett, Jeniel, MD, PhD	Medicine	Clinical Factors Influencing Neutrophil Function during Invasive Candidiasis
Carlson, Andrew, J	Kind, Amy, M.D., Ph.D.	Medicine	Explorations in Medicare Policy: Developing a Systematic Review on Current Definitions of the Safety Net Hospital and the Use of these Definitions in Hospital Reimbursement
Montes, Daniel	Waheed, Sana, MD	Medicine	Assessing Complication Management Protocols of Kidney Biopsies at the University of Wisconsin Hospital
Engel, Tyler, N	Murray, David, MD	Medicine	Impact of Aggressive Transitional Care Strategies on Reducing 30 day Readmission Rates in Veterans Hospitalized for Acute Decompensated Heart Failure
Valentyne, Alyssa, A	Pop-Vicas, Aurora, MD	Medicine	Reducing Surgical Site Infection in Colon Surgery: Comparison of Cefoxitin versus Cefazolin/Metronidazole Preoperative Antibiotic Prophylaxis
Ray, Alexis R	Carnes, Mary, MD, MS	Medicine	Exploring Discrimination Against Physicians of Color by Their Patients
Butler, Maxwell, S	Maursetter, Laura, DO	Medicine	Patient safety in telemedicine

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Berman, Leigh R.	Siraj, Dawd S., MD	Medicine	Assessment of knowledge, attitude, and hand hygiene compliance of health care professionals and associated factors in Jimma University Medical Center
Hash, Kevin, P	Misch, Elizabeth Ann, MD	Medicine	Epidemiology of Nontuberculous Mycobacteria in Wisconsin, 2011-2015.
Adil, Abdullah, A	Dempsey, Robert, MD	Neurological Surgery	Regulation of Lipocalin-2 by MicroRNAs Under Ischemic Conditions
Bui, Leeann, M	Cooney, Laura, MD	Obstetrics and Gynecology	POSTPARTUM DEPRESSION RATES IN WOMEN WITH PCOS
Larson, Jeannette, M	Antony, Kathleen, MD	Obstetrics and Gynecology	Adverse maternal-fetal outcomes associated with sleep apnea
Van Doorn, Rachel, R	Hoppe, Kara, DO	Obstetrics and Gynecology	A systematic review on the prevention of preeclampsia with aspirin
Korger, Jackson, H	Mares, Julie, PhD, MSPH	Ophthalmology and Visual Sciences	The relationship of the density of retinal carotenoids to retinal measures of vascular health fifteen years later in the Carotenoids in Age-Related Eye Study (CAREDS), an ancillary study of the Women's Health Initiative
Fitzpatrick, Brody, M	Poliak-Tunis, Michelle, MD	Orthopedics and Rehabilitation	Genicular Nerve Radiofrequency Ablation As An Alternative To TKA In Patients Being Followed In A Non-operative Knee Osteoarthritis Clinic
Liu, Daniel	Heiderscheit, Bryan	Orthopedics and Rehabilitation	Clinical, Biomechanical, and Novel Imaging Biomarkers of Hamstring Strain Injury Potential in Elite Athletes
Beres, Thomas, V	Noonan, Kenneth, MD	Orthopedics and Rehabilitation	"Use of MÄ©taizeau Technique for Pediatric Proximal Radius Fractures"
McGee, Anna	Heiderscheit, Bryan	Orthopedics and Rehabilitation	Clinical, Biomechanical, and Novel Imaging Biomarkers of Hamstring Strain Injury Potential in Elite Athletes
Shin, Edward	Whiting, Paul	Orthopedics and Rehabilitation	Mortality After Non-operative vs Operative Treatment of Geriatric Hip Fractures
Watchmaker, Lauren, E	Spiker, Andrea, MD	Orthopedics and Rehabilitation	Inter-rater reliability of new provocative exam maneuver
Birner, Zachary, H	Whiting, Paul, MD	Orthopedics and Rehabilitation	Radiographic Outcomes in Long Bone Fractures in Low- and Middle-Income Countries
Beilfuss, Matthew, A	Spiker, Andrea, MD	Orthopedics and Rehabilitation	3D Printing of Pelvis for Periacetabular Osteotomy
Kadri, Aamir	Anderson, Paul, MD, MS	Orthopedics and Rehabilitation	Bone Health Optimization for Quality Improvement in Orthopedic Surgery

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Mack, Lianna, E	Kliethermes, Stephanie, PhD	Orthopedics and Rehabilitation	Risk Factors for Race Day Medical Incidents at Race Events
Rymut, Kevin T	McGuine, Timothy, PhD	Orthopedics and Rehabilitation	Identifying risk factors for injuries in female high school volleyball players
Rottier, Aaron	Rose, Warren, PharmD, MPH	Other	Evaluation of Infection and Antibiotic Resistance in Cystic Fibrosis Patients After Initiation of CFTR Modulators
Vitek, Ross, A	Beebe, David, J	Pathology and Laboratory Medicine	Identifying the tumor microenvironment's role in prostate cancer chemotherapeutic resistance
Vu, Nhu, Q.	McGregor, Stephanie, MD, PhD	Pathology and Laboratory Medicine	Hormone Receptor Expression in Classification and Prognosis of Endometrial Carcinoma Histotypes
Stelter, Bradly, A.	McGregor, Stephanie, MD PhD	Pathology and Laboratory Medicine	Reaching a diagnosis of clear cell carcinoma in comparison to endometrioid or serous carcinoma using immunohistochemical markers.
Richard, Luke, J	Harer, Matthew, MD	Pediatrics	Use of near infrared spectroscopy to detect acute kidney injury in preterm infants
Rosen, Ethan	Kling, Pamela, MD	Pediatrics	Understanding the Etiology of Intrauterine Growth Restriction
Cheng, Christie, F	Coller, Ryan, MD, MPH	Pediatrics	Evaluation of Use and Usability of @HOMEv1 App to Support Enteral Tube Caregiving for Children with Medical Complexity
Faultersack, Jacob, A	McAdams, Ryan, MD	Pediatrics	Essential Laboratory Testing: A Care Conscious Strategy to Improve Quality and Cost Savings in the Neonatal Intensive Care Unit
Zellmer, Ben, M	Kelly, Michelle, MD	Pediatrics	Sharing Doctors' Notes with Parents of Hospitalized Children
Mathers, Nicholas, G	Sondel, Paul, MD, PhD	Pediatrics	Engaging innate and adaptive immunity against cancer
Su, Michelle, L	Mezu-Ndubuisi, Olachi, MD, OD	Pediatrics	Implementing an E-learning program to Increase Knowledge of Chronic Disease Management in Cataract Patients in Imo State, Nigeria - a pilot study
Spoerk, Nicholas J	Conway, James, M.D.	Pediatrics	Health outcomes of diarrheal disease in water-limited conditions: Cape Town, South Africa's drought as a case study
Ngo, Peter	Conway, James, M.D.	Pediatrics	Exploring barriers to eliminating TB in a highly endemic population
Larson, Michelle, M	Petty, Elizabeth, MD	Pediatrics	Perceptions of Genetic Testing Among Adult International Adoptees
Cooper, Trevor, L	Petty, Elizabeth, MD	Pediatrics	Enhancing Outcomes and Optimizing Learning through Gathering Timely Student Input: A Quality Improvement Approach
Puri, Simarjeet	Petty, Elizabeth, MD	Pediatrics	Improving Career Advising and Counseling at UWSMPH

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Dombrowski, Natasha, M	Petty, Elizabeth, MD	Pediatrics	Applications of Quality Improvement to Enhance Constructive and Timely Communication From Administration, Faculty, Staff to Medical Students
Charlly, Nithin	Moreno, Megan, MD, MEd, MPH	Pediatrics	Analysis of Recreational Marijuana Companies'™ Marketing Strategies towards Adolescents in the District of Columbia
Roedel, Megan, M	St. Clair, Nicole, MD	Pediatrics	Tri 4 Schools: Is It Making a Difference for School Age Children?
Nadeem, Hasan	Andersen, Shaneda, PhD, MS	Population Health Sciences	Impact of Disparities on First Course of Treatment in Breast Cancer
Dunton, Zachary	Hargarten, Stephen, MD	Population Health Sciences	The Effects on Suicide Rates Following the Firearm Mandatory Waiting Period Repeal
Skiles, Marc, A	Ryan Herringa MD PhD	Psychiatry	Volumetric Changes in Pediatric Brain Development
Villaruz, Joaquin Alfonso, M	Lainhart, Janet, MD	Psychiatry	Modeling White Matter Development and Symptom Severity in Autism Spectrum Disorder
Lee, Richard, H	Scharrer, Melanie, MD	Psychiatry	Defining Mental Health Issues Across Generations of Hmong in Dane County, WI
Noe-Kim, Victoria	Lubner, Meghan, MD	Radiology	Developing a nomogram for hepatosplenic volumes using an artificial-intelligence (AI) based tool
Horswill, Nicholas, J	Woods, Ryan, MD MPH	Radiology	Use of BI-RADS 3 Assessment in Academic and Community-Based Practices
Witt, Jessica, R	Kleedehn, Mark, MD	Radiology	Quick MRIs for Abscess Drainage in Pediatric Patients
Johnson, Jacob, M	Reeder, Scott, M.D., Ph.D.	Radiology	Improving the value of MRI with deep learning as applied to screening for hepatocellular carcinoma
Prince, Samantha, R	Khoury, Mitri, MD PGY4	Surgery	Investigation of RIP3 inhibitor C9 bioavailability and presence in mouse tissues
Huynh, Khang	Le, Hau, MD	Surgery	The effect of positive pressure on the generation of different human alveoli epithelial cell types.
Odorico, Scott, K	Poore, Samuel, MD, Ph.D.	Surgery	Double blinded stereological assessment of Onabotulinum Toxin A and Nimodipine on post traumatic nerve regeneration following microsurgical repair
Rust, Clayton, J	Gibson, Angela M.D., Ph.D.	Surgery	Evaluation of Cell Viability with Common Wound Cleansing Agents in Ex Vivo Human Skin Model

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Kubica, Phillip, A	Glazer, Tiffany, MD	Surgery	Outcome of T3/T4 Oral Cavity Squamous Cell Carcinoma Based on Delays from Diagnosis to Treatment
Ly, Nancy	Chaiet, Scott, MD, MBA	Surgery	Clinical Practice Guideline Adherence in Bell's Palsy
Stoeckl, Elizabeth M	Kristin Long, MD	Surgery	Thyroglobulin in Completion Thyroidectomy
Bach, Kathy	Francis, David O., MD MS	Surgery	Quality of Life Impact of Vocal Fold Paralysis from Thyroid Surgery
Schreiter, Nicholas, A	Sharon, Weber, MD	Surgery	Etiology of Transitional Care Issues
Dudley, Christina, M.	Neuman, Heather, MD, MS, FACS	Surgery	"Understanding Patients' Perspectives on Factors that Contribute to Receipt of Post-Mastectomy Breast Reconstruction"
Skelton, Paul, B	Lawson, Elise, MD, MSHS	Surgery	Decreasing use of opioids for patients undergoing colorectal surgical procedures
Chen, Kallie, J	Schneider, David, MD, MS, FACS	Surgery	Thyroid Imaging Reporting and Data System: The Utility of Natural Language Processing Output in Risk Stratification and Reporting Measures
Schulz, Kathryn, A	Schwarze, Gretchen, MD MPP	Surgery	Redesigning Preoperative Conversations
Beine, Kevin, J	Michelotti, Brett, MD	Surgery	Comparison of initial contact location and operative needs of UW Health patients with distal radius fractures
Smith, David T	Abbott, Daniel, MD	Surgery	A. Reducing Socioeconomic and Geographic Disparities in Cancer Care: A Pilot Study to Understand the Potential Utility and Scope of Telemedicine in GI cancer surveillance
Joachim, Alyssa M	Weber, Sharon, MD, FACS	Surgery	Gender disparities in surgical resident participation in teaching cases
Huynh, Brandon	Abbott, Daniel, MD, FACS	Surgery	Improving surgical outcomes through a patient and provider enhanced perioperative mobile technology platform
Qadadha, Yazeed, M	Sullivan, Sarah, PhD	Surgery	Development of non-technical skills within the trauma team
Lauer, Kate, V	Abel, E. Jason, MD	Urology	Comparing overall survival in high and low risk renal cell carcinoma patients treated with cytoreductive nephrectomy
Warden, Aleah, M	Richards, Kyle, MD FACS	Urology	A. Opioid Use After Urologic Surgery

Student	Mentor	Mentor Department	Title of Proposed Research Project
Aldred, Breanna, N	Groose, Molly, MD, MS	Anesthesiology	Variables Associated with Intracardiac Thrombus during Orthotopic Liver Transplant: A Retrospective Single-Center Study
Loebertman, Michael, D	Abd-ElSayed, Alaa, MD, MPH	Anesthesiology	One Versus Two Diagnostic Blocks in Radiofrequency Ablation for Pain Management
Maerz, Bradley, J	Cios, Hubert, MD	Anesthesiology	Pain Assessment Following Adductor Canal Block in Total Knee Arthroplasty with Liposomal Bupivacaine or Standard Bupivacaine
Miller, Samantha, A	Sanders, Robert, PhD	Anesthesiology	Impact of Intraoperative Hemodynamics and Blood Loss on Risk of Postoperative Delirium
Nguyen, Sean, H	Abd-ElSayed, Alaa, MD, MPH	Anesthesiology	Radiofrequency Ablation for Treating Headache Related Pericranial Neuralgia
Probst, Haley, A	Cios, Hubert, MD.	Anesthesiology	Postoperative Pain and Opioid Use in Total Knee Arthroplasty Using Liposomal Bupivacaine Versus Bupivacaine for Adductor Canal Block
Varghese, Priya, B	Cios, Hubert, MD	Anesthesiology	Impact of Liposomal Bupivacaine Injected for Adductor Canal Block on Recovery Profile and Block Characteristics Following Total Knee Arthroplasty
Zimmerman, Haley, R	McCormick, Timothy, DO	Anesthesiology	Pain Management for Burn Patients Undergoing Skin Grafting
Belongia, Daniel, J	Ge, Ying, PhD	Cell and Regenerative Biology	Enhancing Top-Down Proteomics Data Analysis Tools for Precision Medicine through Machine Learning
Wrobbel, Max, G	Ge, Ying, PhD	Cell and Regenerative Biology	Top-Down Proteomics of Hypertrophic Cardiomyopathy for Precision Medicine: Exploring Sarcomeric Protein Changes in a 3D Engineered Cardiac Tissue Model
Welsh, Katie M	Arkin, Lisa M	Dermatology	A Multivariate Analysis of No-Show Rates and Factors Contributing to Non-Attendance at an Academic Pediatric Dermatology Center in the United States.
Beck, Aaron	Shah, Manish, MD, MPH	Emergency Medicine	Identifying Gaps in Primary Care that Influence Emergency Care Use by Community-Dwelling Patients with Dementia
Genthe, Nicholas, A	Mancera, Michael, MD	Emergency Medicine	Community Paramedic Pilot Program Operational Metrics and Impact on Patient Emergency Medical Services Utilization
Hatab, Jenna, M	Kuehnel, Nicholas, MD	Emergency Medicine	Decreasing Patient Distress During Minor Procedures in a Pediatric Emergency Department as Assessed Using Pediatric Sedation State Scale
Hesse, Steven, P	Pulia, Michael S, MD, MS	Emergency Medicine	Developing Antibiotic Stewardship Interventions for Skin and Soft Tissue Infections in the Emergency Department: A Mixed Methods Approach
Kim, Brandon, R	Schmidt, Jessica, MD MPH	Emergency Medicine	Identification of Predictors of Mortality and Early Interventions for Pediatric Patients in the Acute Care Setting At Mbale Regional Referral Hospital, Uganda
Saenz, Sarah, N.	Svenson, James, MD	Emergency Medicine	Use of BNP in the Emergency Department
Wilson, Julia L.	Schmidt, Jessica, MD, MPH	Emergency Medicine	Assessing the Feasibility and Barriers of a Diabetic Diet in a Rural Guatemalan Community
Craigova, Lenka	Martonffy, Ildi	Family Medicine	Factors Which Affect the Decision of Family Physicians That Enter Practice in Underserved Communities
Goblirsch, Matthew J	Hamrick, Irene M, MD	Family Medicine	Changing Patients with Type 2 Diabetes Mellitus From Insulin To DPP-4 Inhibitors
Ai, Angela C	Shirley, Daniel MD	Medicine	Variation in Ultrasound Probe Use in the Ambulatory Setting: Disinfection Status and Supplies During Use



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Albrecht, Calvin, M	Murray, David, MD, FACC	Medicine	Factors Impacting the Development of Post-Heart Transplantation Malignancy in the Veteran Population
Colevas, Sophia M	Raval, Amish, MD	Medicine	Biomimetic Cardiac Organoid for in Vitro Investigation of Cardiac Cell-To-Cell Interactions
Di Bartolomeo, Sarah E	Parajuli, Sandesh MBBS	Medicine	Outcomes of Pre-Transplant, Recurrent and Post-Transplant Malignant Melanoma in Kidney Transplant Recipients
Ellis, Jacob K	Raval, Amish MD	Medicine	Physician Preferred Transthoracic Echo Acoustic Windows for Evaluating Aortic and Mitral Valves in Anticipation of Transcatheter Valve Interventions.
Gama, Vivian	Waheed, Sana, MD	Medicine	Peritoneal Dialysis After Renal Transplant Failure: a Different Beast Altogether
Gjyzeli, Genti, A	Benson, Mark MD	Medicine	Safety and Efficacy of Moderate Sedation in Obese Patients Undergoing Endoscopic Retrograde Cholangiopancreatography and Endoscopic Ultrasound
Gregory, Andrew, J	Singh, Tripti, MD	Medicine	Timing Is Everything: Decreasing Mortality Associated with Severe Hyperkalemia in Hospitalized End Stage Renal Disease Patients
Hua, Alexandra	Tevaarwerk, Amye, MD	Medicine	Impact of Survivorship Care Plans and Planning On Breast, Colon and Prostate Cancer Survivors in a Community Oncology Practice
Jarrett, Omar, G	Safdar, Nasia, MD, PhD	Medicine	Pet Ownership and the Microbial Diversity of the Human Gut Microbiome
Keefe, Alexis, M	Eckhardt, Lee, MD, MS	Medicine	The Role of Autoantibodies in Cardiac QTc Prolongation in Patients with Rheumatoid Arthritis
Leighton, Maria, T	Robins, Ian, MD PhD	Medicine	The Effects of Tumor Treating Fields and ABT-414 in Elevated EGFR Expressing and Standard Expressing Patient Derived Glioblastoma Stem-Like Cells
Mooney, Katherine, E	LoConte, Noelle, M.D.	Medicine	School-Based Immunization as a Method of Increasing HPV Vaccination Rates Among Wisconsin Youth
Morken, Colleen, M	Sesto, Mary, PhD, PT, MS	Medicine	Evaluating Survivorship Care Plans for Use By Hematopoietic Stem Cell Transplant Survivors and Non-Transplant Clinicians: An Engineering, Primary Care, and Oncology Collaborative for Survivorship Health
Ohman, Jakob, D	Waheed, Sana MD	Medicine	Peritoneal Dialysis in the Elderly: An Opportunity Not to Miss
Park, Eunhae	Lamming, Dudley	Medicine	Improving Metabolic Health through Reduced Consumption of Specific Dietary Amino Acids
Razalan, Francheska C.	Goss, Kara MD.	Medicine	Simultaneous Assessment of Cardiac Metabolism and Function Using PET/MR with Continuous FDG Infusion
Richardson, Catherine, J	Maursetter, Laura, DO	Medicine	Using Quality Improvement to Address Low Serum Albumin in Hemodialysis Patients
Rolak, Stacey, C	Parajuli, Sandesh, MD	Medicine	Outcomes of Norovirus Diarrheal Infections in Kidney Transplant Recipients: a Single-Center Retrospective Study
Rosenthal, Kimberly, A	Albertini, Mark, MD	Medicine	Identification of T Lymphocyte Activation Biomarkers in the Canine Model for Future Use in Melanoma Treatment Response Monitoring
Sievers, Chelsie K	Deming, Dustin, MD	Medicine	Regulating the Immune Landscape in Pancreatic Ductal Adenocarcinoma
Taylor, Quinton, A	Westergaard, Ryan, MD, PhD, MPH	Medicine	Barriers To Adoption of Medication Assisted Treatment for Opioid Use Disorder by Family Medicine Physicians, in Wisconsin
Wakely, Michael, J	Carlsson, Cynthia, MD, MS	Medicine	Investigating the Relationship Between CSF Metabolites, Alzheimer's Biomarkers and Demographic Data in People with a Parental History of Alzheimer's Disease.
Wilson, Athena, S	Sesto, Mary, PhD	Medicine	Disability Information Needs of Women with Advanced Breast Cancer
Ziegler, John, M	Crnich, Christopher, MD, PhD	Medicine	Factors Influencing the Measurement of Antibiotic Utilization in Nursing Homes
Franczek, Elliot	Hanna, Amgad	Neurological Surgery	Improving Function After Peripheral Nerve Injury with Mineral Coated Microparticles Releasing Growth Factors



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Lang, McDaniel, H	Dempsey, Robert, MD	Neurological Surgery	Effect of High Fat Diet on Inflammatory Cytokines/Adipokines Associated with Atherosclerosis
Navarro, Miguel A	Hanna, Amgad S	Neurological Surgery	Mineral-Coatings for mRNA-based Reprogramming in Nerve Grafts
Glaubke, David, A	Ehrenthal, Deborah, MD, MPH, FACP	Obstetrics and Gynecology	Caring for Women in Wisconsin: A Guide To Understanding Women's Health Funding and Policy
Lohr, Ali, N	Antony, Kathleen, MD	Obstetrics and Gynecology	Does Daily Self-Weighing (DSW) Compared To Routine Care Impact Postpartum Weight Loss?
Lohr, Ali, N	Hoppe, Kara, MD	Obstetrics and Gynecology	Correlation of Self-Reported Depressed Mood Using Telehealth and 6-Week EPDS in Postpartum Women with Hypertension
Miller, Laura	Landry, Mary, MD	Obstetrics and Gynecology	Disparities in Gynecologic Cancer Prevention Referral Patterns: Promoting Health Equity and Process Change
Konduri, Vimal S.	Cat N. Burkat, MD	Ophthalmology and Visual Sciences	An Evaluation of the Impact of the Certified Ophthalmic Paramedic Program at a Large Charity Eye Hospital in Delhi, India
Behlmer, Richard J	Whiting, Paul MD	orthopedics and Rehabilitation	Radiographic Alignment Following Reduction and Fixation of Tibia Shaft Fractures
Duminie, Sean P	Spiker, andrea MD	orthopedics and Rehabilitation	Differences in Radiographic Measurements on Standing Versus Supine Pelvic Radiographs
Janz, Joseph, D	McGuine, Tim, PhD	orthopedics and Rehabilitation	The Effectiveness in Soccer Headgear to Reduce the Incidence and Severity of Sports Related Concussions in Adolescents
Mueller, Alison, M	Spiker, andrea, MD	orthopedics and Rehabilitation	Current Trends in Hip Arthroscopy Capsule Management: A Survey of Hip Arthroscopists
Phillips, Nicholas R	Sehgal, Nalini, MD	orthopedics and Rehabilitation	Pre-Operative Predictors of Post-Operative Shoulder Pain
Trotter, Cameron, A	Lang, Pamela, MD	orthopedics and Rehabilitation	Functional Outcomes Following Medial Patellofemoral Ligament (MPFL) Repair for Chronic Patellar Instability
Wang, Jesse, F	Illgen, Richard, MD	orthopedics and Rehabilitation	Relative Clinical Outcomes Comparing Manual and Robotic Assisted Total Knee Arthroplasty at Minimum 1 Year Follow-Up
Warden, Jarrett, A	Noonan, Kenneth, MD	orthopedics and Rehabilitation	Comparing the Characteristics of Pediatric Osteoarticular Infection on MRI: MRSA vs. Non-MRSA
Bryant, Alex, B	Jacklitz, Jill, MSW	Other: Law School	Northeast Clinic Navigator Program Evaluation
Bizub, Brian	Allen, Brittany, MD	Pediatrics	Creating a Primary Care Toolkit for Transgender, Non-Binary, and Gender Non-Conforming (TNG) Youth through Iterative Design Methods
Carlson, Mackenzie, E	McAdams, Ryan, MD	Pediatrics	Viewpoints of Pregnant Mothers and Community Health Workers on Prenatal Care in Lweza Village, Uganda
Covert, Lucia, C	Shadman, Kristin, MD	Pediatrics	A Follow Up Evaluation of Safe Sleep Practices Across Wisconsin Maternity Facilities



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Dang, Do D.	Sondel, Paul, MD, PhD	Pediatrics	Determining B78 Melanoma Sensitivity To Cytotoxic T-Cells Using Incucyte
Enright, Connor J	Peterson, Amy, M.D.	Pediatrics	Statin Efficacy Related to Adherence and Follow-Up in a Pediatric Population
Funfar, Brenna, R	Redpath, Allison, MD, MPH	Pediatrics	Incidence and Risk Factors of Acute Kidney Injury in Pediatric Acute Myeloid Leukemia
Gokey, Megan	Sondel, Paul, MD, PhD	Pediatrics	Enhancing Detection Sensitivity of Humanized Therapeutic Antibody in Patient Samples for Improved Pharmacokinetic Evaluation
Larrain, Carolina M	Lamers, Luke, MD	Pediatrics	Consequence of an Early Catheter Intervention to Treat Pulmonary Artery Stenosis in a Swine Model of Congenital Heart Disease.
Lerner, Alec, P	Fost, Norman, MD MPH	Pediatrics	A Critique of the AAP Policy Statement on Safety in Youth Tackle Football
Ntambi, Jayne-Norah , N	Petty, Elizabeth	Pediatrics	Web-Based Case Study Analysis on US Med-Peds Residency Global Health Opportunities
Starke, Samuel, J	Conway, James, MD, FAAP	Pediatrics	Knowledge and Attitudes Regarding LTBI Treatment Among the Tibetan Monastic Population Living in India: Recommendations for the Zero Tb Campaign
Harari, Julia, H	Herringa, Ryan, MD, PhD	Psychiatry	Shock Expectancy as a Measure of Fear Learning in Youth with PTSD
Awe, Adam, M	Lubner, Meghan, MD	Radiology	Maximum Diameter Is a Poor Surrogate Measure for Volume of Small Pancreatic Cysts
Bice, Curran, K	Elezaby, Mai MD	Radiology	Impact of Digital Breast Tomosynthesis-Guidance on Pathology Outcomes and Quality Metrics of Breast Biopsies
Cuskey, Alex, J	Elezaby, Mai, MD	Radiology	Development of High Fidelity Training Cases for Independent Radiology Call Exam
Khan, Aahad, N	Strother, Charles, MD	Radiology	Using 4D DSA To Create an In Vitro Model for Analyzing Intracranial Aneurysms Hemodynamics
Li, John, W	Cho, Steve, MD	Radiology	Assessing the Clinical Feasibility of Whole-Body Dynamic FDG PET Imaging
Bandealy, Nadeem	Winslow, Emily, M.D.	Surgery	The Impact of Diagnosis on Patient Satisfaction in a Large Sample of General Surgery Outpatients
Beilke, Sarah, R	Liepert, Amy, MD	Surgery	Surgeon Engagement in Surgical Health Policy Advocacy
Chen, Stephen	Schneider, David	Surgery	Optimizing Levothyroxine Dose Adjustment After Thyroidectomy with a Decision Tree
El-Gabri, Deena	Long, Kristin, MD	Surgery	Surgical Coaching for Advancement of Global Surgical Skills and Capacity: a Systematic Review
Fischer, Cristina L.	Winslow, Emily, MD, FACS	Surgery	Understanding Communication Gaps in the Hospital Consultation Process
Glover, Christopher, R	Gibson, Angela, MD, PhD, FACS	Surgery	Characterizing the Inflammation Response in Burn Tissue
Jensen, Catherine, B	Pitt, Susan, MD, MPHS	Surgery	Barriers to Active Surveillance: a Survey of Endocrinologists and Surgeons
Koebe, Samuel, D	Shada, Amber, MD	Surgery	Current Practice Patterns for Primary Umbilical Hernia Repair in the United States
Mechler-Hickson, Alexandra, M	Thibeault, Susan, PhD, CCC-SLP	Surgery	Characterization of Toll-Like Receptors in the Larynx: Implications for Inflammation
Obua, Andre U	Al-Adra, David MD PhD	Surgery	Exploring the Effects of Cytokine Administration on Liver Allografts During Normothermic Ex-Vivo Liver Perfusion (NEVLP)
Osadchuk, Tetyana	Gast, Katherine, MD	Surgery	To Operate or Not: An Assessment of Operative Indication of Distal Radius Fractures Using X-Rays and CT Scan in the Same Patient
Patel, Kush, A	Jung, Hee Soo, MD	Surgery	A Gap Analysis of Simulation Training in Medical Education for Students with Physical Disabilities
Patel, Viki, B	Mount, Delora MD	Surgery	Feeding Outcomes Following Mandibular Distraction Osteogenesis in Pierre Robin Sequence
Pham, Phuoc, H	Odorico, Jon S, MD	Surgery	Does High BMI or High Insulin Requirements in Simultaneous Pancreas-Kidney Transplant Candidates Increase the Risk of Graft Failure or Return to Insulin?
Semma, Yoseph	Tefera, Girma	Surgery	Vascular Surgery Outcomes of Trauma Patients at TASH, Addis Ababa, Ethiopia



Student	Mentor	Mentor Department	Title of Proposed Research Project
Shogren, Sophie	Schwarze, Gretchen	Surgery	Surgeon Reflections on the Use of a Question Prompt List by Patients Considering High-Risk Operations
Sobczak, Gabriel, G	Litovsky, Ruth, PhD	Surgery	fNIRS Imaging: Investigating Listening Effort in Single-Sided-Deaf Cochlear Implant Simulation
Timmel, Ainsley	Kohler, Jonathan, MD	Surgery	Physician Calls To Pediatric General Surgeons – Foundational Data To Guide Future Interventions
Williams, Kyle, EW	Liepert, Amy, MD FACS	Surgery	A Multidisciplinary Approach to Patients with Acute Necrotizing Pancreatitis
Backhaus, Kate, M	Richards, Kyle, MD	Urology	The Utility of Urinalysis Prior to In-office Procedures: a Randomized Clinical Trial
Bond, Evalina, S	Abel, Jason, E	Urology	Evaluating the Role of Pre-Treatment Renal Mass Biopsy in Large or Advanced Renal Masses
Davidson, Emily L	Abel, E Jason	Urology	Investigating the Prognostic Value of Serum Biomarkers for High-Risk Renal Cell Carcinoma Recurrence Following Surgery.
Nguyen, Andrew	Downs, Tracy	Urology	Cancer Rates Are down Nationally: Are They down Where You Live?



**UW School of Medicine and Public Health  
2017 Medical Student Summer Research Projects (listed by Department)**

<b>Student</b>	<b>Mentor</b>	<b>Mentor Department</b>	<b>Title of Proposed Research Project</b>
Gyorfi, Kaley, M	Trawicki, Michael, MD Becker, Aimee, MD Schroeder, Kristopher, MD	Anesthesiology	Standardized Train-of-four Monitoring with the use of Neuromuscular Blockade Agents to Reduce Adverse Post-Anesthesia Outcomes
Anis, Antonious	Abd-Elsayed, Alaa, MD, MPH	Anesthesiology	Peripheral Nerve Radiofrequency Ablation for Pain Management with Emphasis on the Genicular Nerves.
Weigman, Benjamin, J.	Galgon, Richard, MD, MS	Anesthesiology	Comparison of Use of a Shortened Air-Q SP Versus the Williams Intubating Airway for Single-Operator Flexible Bronchoscopic Intubation: A Randomized Trial
Filon, Mikolaj, J	Cios, Hubert, MD	Anesthesiology	Impact of Liposomal Bupivacaine Injected for Adductor Canal Block on Recovery Profile and Block Characteristics Following Total Knee Arthroplasty
Hubler, Collin, P	Cios, Hubert, MD	Anesthesiology	Functional Recovery and Motor Strength in Total Knee Arthroplasty Using Liposomal Bupivacaine versus Bupivacaine HCl for Adductor Canal Block
Schell, Trevor L.	Borden, Shelly, MD Dib, Martin, MD	Anesthesiology Surgery	Evaluation of Surgically Placed TAP Catheter Analgesia Following Renal Transplant
Turner, Lily, H.G.	Sanders, Robert, MD, PhD	Anesthesiology	The Association of Preoperative Executive Function and Postoperative Delirium
Wayer, Daniel, R	Sanders, Robert, MD, PhD	Anesthesiology	The Association of Preoperative Frontal Cortex Neurodegeneration and Post-Operative Delirium
Xing, Bohan	Abd-Elsayed, Alaa, MD, MPH	Anesthesiology	Effects of Pre-Operative Opioid use on Post-Operative Patient Outcomes after Orthopedic Knee Surgery
Murphy, Thomas, M	Chesler, Naomi, PhD Philip, Jennifer, MD	Biomedical Engineering Surgery	Analysis of Pulmonary Vascular Impedance and Remodeling in Ischemic Left Heart Failure
Sloan, Chelsea, M	Chesler, Naomi, PhD	Biomedical Engineering	Analysis of Pulmonary Vasculature Defects in Pbx CKO Mice Using Micro CT
Nguyen, Cordellia, V	Arkin, Lisa, MD	Dermatology	Investigation of Pediatric-onset Discoid Lupus Erythematosus
Hughes, Matthew, J	Replinger, Michael, MD, PhD	Emergency Medicine	Barriers to MR Use in the ED
Lau, Hunter, S	Shah, Manish, MD, MPH	Emergency Medicine	Qualitative Analysis of Community Paramedicine Care Transitions Coach Training
Trinh, Alex	Patterson, Brian, MD, MPH	Emergency Medicine	Utilization of Chief Complaints and ICD-10 Diagnosis Codes in the Design of a Novel Definition for Falls Among Older Adults in the Emergency Department
Wu, Connie	Kim, Michael, MD	Emergency Medicine	Trends in ED Evaluation of Pediatric Patients with Mental Health Complaints
Harringa, John, B	Replinger, Michael, MD, PhD	Emergency Medicine	Magnetic Resonance Imaging versus Computed Tomography and Ultrasound for the Diagnosis of Female Pelvic Pathology
Marshall, David, M	Nourani, Bobby, DO Rabago, David, MD	Family Medicine	Prolotherapy for Knee Osteoarthritis
Stark, Bailee A	Brown, Randall, MD, PhD	Family Medicine	Screening in Trauma for Opioid Misuse Prevention (STOMP)

**UW School of Medicine and Public Health  
2017 Medical Student Summer Research Projects (listed by Department)**

<b>Student</b>	<b>Mentor</b>	<b>Mentor Department</b>	<b>Title of Proposed Research Project</b>
Nguyen, Katarina	Anderson, Bethany, MD Poore, Samuel, MD, PhD	Human Oncology Surgery	A Systematic and Retrospective Chart Review of Outcomes in Breast Cancer Patients with Radiation Therapy Followed by Surgical Reconstruction
Choi, Timothy, J	Harari, Paul, MD Skala, Melissa, MD	Human Oncology	A.Evaluation of Head and Neck Squamous Cell Carcinoma Response to Radiation Therapy via Optical Metabolic Imaging
Guy, Emily, I	Morris, Zachary, MD, PhD	Human Oncology	Assess the Capability of Intratumoral Antibody Plus Intratumoral Cytokine to Produce in Situ Tumor Vaccination and Enhance Following Local Radiation Therapy in Diverse Syngeneic Murine Tumor Models.
Rourke, Kyle, S	Schrage, William, PhD	Kinesiology	Acute Insulin Surges Lead to Brain Hypoperfusion in Human Metabolic Syndrome
Brauer, Alexander, FL	Maursetter, Laura, DO	Medicine	Improved Management of Hyperphosphatemia in Dialysis Patients.
Kelley, Soibhan, R	Misch, Elizabeth Ann, MD	Medicine	Risk of Bacteremia According to Transplant Immunosuppressive Regimen
Kenzie, Madeline, R	Siraj, Dawd, MD,MPH Safdar, Nasia, MD, PhD	Medicine	Barriers to Infection Control of Hospital Acquired Infections in Jimma, Ethiopia
Matchett, Caroline L	Maursetter, Laura DO	Medicine	The Effects of Simulation-based Training Tailored to Learner Skill Level to Enhance Procedural Competence During Nephrology Fellowship Training
Meese, Anna, M	Safdar, Nasia, MD, PhD	Medicine	Improving Injection Safety in Ambulatory Care Settings
Schwartz, Xavier, V	Safdar, Nasia, MD, PhD	Medicine	Identifying Barriers Preventing Adherence to Surgical Site Infection Prevention
Spinali, Keith, L	Raval, Amish, MD Schmuck, Eric, PhD	Medicine	Cardioimmunotherapy: Generation and Characterization of Cardiac-Specific Reparative Macrophages for the Treatment of Heart Failure
Vogel, Savannah L	Waheed, Sana, MD	Medicine	A.Examining the Difference in Dialysis Modality Choice and Survival Between Men and Women
Anderson, Brittany, N	Kind, Amy, MD, PhD	Medicine	Development of a Multi-National Interventional Framework to Improve Alzheimer's Disease Care and Caregiver Support for Undersupplied Populations
Toumi, Gisele	Cryns, Vincent, MD	Medicine	The Role of alphaB-Crystallin in Cancer Stem Cell Survival and Metastasis
Battiola, Therese	Goss, Kara, MD	Medicine	Evaluation of the Role of Angiogenesis in the Development of Pulmonary Vascular Dysfunction in Adults Born Prematurely
Winzenried, Alec, E	Striker, Robert, MD, PhD	Medicine	A.Retrospective Analysis of HIV-Positive Patient CD4:CD8 Ratios in Evaluation of Progressive HIV Infection
Bange, Matthew, G	Makielski, Jonathan, MD, FACC Kyle, John, PhD	Medicine	Mouse Models for the Elucidation of the Mitochondrial ATP Sensitive Potassium Channel
Ezeh, Nnenna S	Bartels, Christie, MD, MS	Medicine	Prioritizing Cardiovascular Disease Prevention Strategies for Lupus Populations
Gill, Emma K	Westergaard, Ryan MD, PhD,MPH	Medicine	Understanding the Continuum of Hepatitis C Care for Inmates in the Wisconsin Department of Corrections

**UW School of Medicine and Public Health  
2017 Medical Student Summer Research Projects (listed by Department)**

<b>Student</b>	<b>Mentor</b>	<b>Mentor Department</b>	<b>Title of Proposed Research Project</b>
Haggart, Ryan	Johnson, Heather, MD, MS, FAHA	Medicine	Relationship of Tobacco Use Status and Rate of Hypertension Control Among Adults with Incident Hypertension
Hossin, Tamanna	Crnich, Christopher, MD	Medicine	Evaluating Opportunities for Antibiotics De-escalation in Wisconsin Nursing Homes
Kurudza, Elena, M	Asimakopoulos, Fotis, MD, PhD	Medicine	Matrix-derived Regulators of Anti-tumor Immunity: Translational Implications
Miller, Devon, D	Deming, Dustin, MD	Medicine	Patient-derived NSCLC Spheroid Cultures for Predicting Therapeutic Outcomes
Mirabadi, Nina, H	Makielski, Jonathan, MD, FACC Kyle, John, PhD	Medicine	Cardioprotection Due to Ischemic Preconditioning: Does Preconditioning Lead to Increased SUR2-55A Expression in Wild Type Mice?
Nguyen, Thai, Q	Shelef, Miriam, MD	Medicine	Investigating the Role of PADI4 Single Nucleotide Polymorphisms in Contributing to Rheumatoid Arthritis
Novin, Sherwin, A	Cryns, Vincent, MD	Medicine	Effect of Dietary Restriction of Essential Amino Acids (EAA) on Human Triple Negative Breast Cancer Cells
Peery, Steve, L	Panzer, Sarah, MD	Medicine	Risk of Infection in Patients with Native Glomerular Disease Post Kidney Transplant
Prabakaran, Prashanth, J	Raval, Amish, MD Speidel, Michael, PhD	Medicine Medical Physics	Evaluating the Utility of Co-Registered X-ray Fluoroscopy and 3D-Surface Echo Visualizations for Structural Heart Interventions
Russek, Natanya, S	Carlsson, Cynthia, MD, MS	Medicine	Impact of Cerebral Blood Flow on Alzheimer's Disease Biomarkers and Cognitive Change
Tao, Ran	Albertini, Mark, MD Zuleger, Cindy, PhD	Medicine	PIG-A Mutant T-cells as a Biomarker of Response to Immune Checkpoint Blockade in Metastatic Melanoma
Wang, Steven, X	Kind, Amy, MD, PhD Pulia, Nicole, PhD/CCC-SLP	Medicine	Examining Diagnostic Testing, Treatment, and Care Processes for Dementia Patients
Weisnicht, Allison M	Nett, Jeniel, MD, PhD	Medicine	Mechanism of Neutrophil Inhibition by Candida Biofilms
Nguyen, Huy Tram, N	Kuo, John, MD, PhD H. Ian Robins, MD, PhD	Neurological Surgery Human Oncology	The Effects of Tumor Treating Fields and Cabazitaxel in MGMT Expressing and Non-expressing Patient Derived Glioblastoma Stem-like Cells
Sergev, Orlin, O	Kuo, John, MD, PhD Weichert, Jamey, PhD	Neurological Surgery	Elucidation of Cancer-targeting Alkylphosphocholine Compound Uptake Mechanism in Tumor Cells
Vargas Alvarado, Jose, J	Hanna, Amgad S, MD Hellenbrand, Daniel, PhD	Neurological Surgery	Improving Function After Nerve Injury via Sutures Releasing Growth Factors
Blanchard, Hannah, L	Landry, Mary, MD Verrilli, Lauren, MD	Obstetrics and Gynecology	Contraceptive Choices Among High-Level Female Athletes
de Venecia, Bryce, T	Bradfield, Yasmin, MD, FAAP	Ophthalmology and Visual Sciences	Validation Study for Peek Acuity in Pediatric Screening Programs
Vo, Kevin, B	Young, Terri, MD, MBA	Ophthalmology and Visual Sciences	Identifying New Genes for Primary Congenital Glaucoma
Gyorfi, Michael, J	Noonan, Kenneth, MD Wiseley, Benjamin, MD	Orthopedics and Rehabilitation	Single Screw Anterior Hemi-Epiphysiodesis for Treatment of Fixed Knee Flexion Deformities

**UW School of Medicine and Public Health  
2017 Medical Student Summer Research Projects (listed by Department)**

<b>Student</b>	<b>Mentor</b>	<b>Mentor Department</b>	<b>Title of Proposed Research Project</b>
Hanna, Rewais, B	Halanski, Matthew, MD	Orthopedics and Rehabilitation	Postoperative Complications of Baclofen Pumps in Scoliosis Surgery for Cerebral Palsy Patients
Kopriva, John, M	Noonan, Kenneth, MD	Orthopedics and Rehabilitation	Compartment Syndrome in Pediatric Monteggia Fractures & Equivalents
Montero Jaques, Mariana, L	Scerpella, Tamara, MD	Orthopedics and Rehabilitation	Predictors of Medium- and Long-Term Functional Outcomes Following ACL Reconstruction
Pfeuti, Courtney, K	Hammer, Erin, MD Brooks, Alison, MD, MPH	Orthopedics and Rehabilitation	Driving After Concussion: Association Between Concussion Symptoms Severity, Neurocognitive Tests, and a Computer-based Risk Awareness Program
Tao, Michael, Z	Anderson, Paul, MD	Orthopedics and Rehabilitation	A Systematic and Retrospective Chart Review of Patient Outcomes in Patients with Vertebral Osteomyelitis
Macias, Rodolfo	Halanski, Matthew, MD	Orthopedics and Rehabilitation	Comparing 1-Surgeon vs 2-Surgeon Results of Posterior Spine Fusion in Patients with Neuromuscular Scoliosis
Gallenberger, Mikayla, A	McGuine, Tim, PhD	Orthopedics and Rehabilitation	The Effectiveness of Soccer Headgear to Reduce the Incidence of Sport Related Concussion in Adolescents
Niewold, Nikki K	Brooks, Alison, MD, MPH McGuine, Tim, PhD	Orthopedics and Rehabilitation	The Incidence and Management of Sport Concussions in High School Athletes
Sato, Eleanor, H.	Illgen, Richard, MD	Orthopedics and Rehabilitation	Systematic Analysis of Long-term Outcomes in Biomet Metal-on-metal Compared to Metal-on-polyethylene Total Hip Arthroplasty
Zarling, Lucas, C	Li, Wan-Ju, MD	Orthopedics and Rehabilitation	Toward Mimicking the Stem Cell Niche of Bone Marrow-derived Mesenchymal Stem Cells
Anderson, Aaron R	Mezu-Ndubuisi, Olachi, MD, OD	Pediatrics	Investigating the Use of Education on Diet and Medical Co-morbidities to Reduce Cataract Surgery Screening Failure in a Rural Community in Imo State, Nigeria
Khan, Camila M	Webber, Sarah, MD	Pediatrics	Community Health Worker Led Postpartum Support Group for Latino Mothers and Infants
Nackers, Allison, E.	Coller, Ryan, MD, MPH Ehlenbach, Mary, MD	Pediatrics	Evaluation of Preventable Hospitalizations in Children with Medical Complexity
O'Donnell, Patrick	Shadman, Kristin, MD	Pediatrics	Characterizing Feeding Practices for Pediatric Patients on High Flow Nasal Cannula (HFNC)
Rudin, Shoshana L	Rehm, Jennifer, MD Kling, Pamela, MD	Pediatrics	Effects of Diet and Inflammation on Disordered Iron Metabolism on Obese Adolescents
Friedl, Christina, L	Mezu-Ndubuisi, Olachi, MD, OD	Pediatrics	Use of E-learning Applications to Improve Quality of Life in Patients with Cataracts in Imo State, Nigeria
Lash, Collin, T	Conway, James, MD Koning, Stephanie	Pediatrics	Evaluating the Intergenerational Effects of Maternal Stressful Life Events on Child Development in Chang Mai Province, Thailand
Scott, Kaylee B	Conway, James, MD Koning, Stephanie	Pediatrics Population Health Sciences	Assessing the Relationship Between Human Rights Violations and Maternal Health Outcomes in Village Women of Chiang Mai Province, Thailand
Zywicky, Micaela, E	Kling, Pamela, MD	Pediatrics	Improving Diagnosis and Treatment of Iron-Deficiency Anemia in Infants and Toddlers

**UW School of Medicine and Public Health  
2017 Medical Student Summer Research Projects (listed by Department)**

<b>Student</b>	<b>Mentor</b>	<b>Mentor Department</b>	<b>Title of Proposed Research Project</b>
Stone, Ari M	Sondel, Paul, MD, PhD Rakhmilevich, Alexander, MD, PhD	Pediatrics/Human Oncology	Effect of Innate and Adaptive Immunotherapies on Myeloid-Derived Suppressor Cell Populations in a Mouse Pancreatic Adenocarcinoma Model
Curtis, Erin, EM	Mohamoud, Yousra, MS Ehrenthal, Deborah, MD, MPH	Population Health Sciences	Health Professionals' Attitudes and Barriers Around the Implementation of Evidence-based Preconception Care
Guan, Wen	Pillai, Parvathy, MD, MPH Johnson, Melanie, MA	Population Health Sciences DHS	Assessing Nutrition and Physical Activity Promotion in the State of Wisconsin
Kotecki, Jack, A	Kindig, David, MD, PhD Gennuso, Keith, PhD	Population Health Sciences	Youth Adrift: Residential Segregation and Disconnected Youth in Large Metropolitan Areas
McAsey, Andrew, R	Jones, Kristina, MPH, CHES Pillai, Parvathy, MD, MPH	Population Health Sciences	Demographic Characterization and Health Needs Assessment of MEDiC Southside Clinic Patient Population
Nagarajan, Adithy, S	Pillai, Parvathy, MD, MPH Johnson, Melanie, MA	Population Health Sciences	An Environmental Scan of Suicide Reduction Initiatives in Wisconsin
Quiggle, Gabrielle M.	Ehrenthal, Deborah, MD, MPH	Population Health Sciences	Investigating Drivers of Disparities in Perinatal Outcomes in Wisconsin
Taboada, Mireya, P	Ehrenthal, Deborah, MD, MPH	Population Health Sciences	Health Professionals' Attitudes and Barriers Around the Implementation of Evidence-based Preconception Care
Krabbenhoft, Sam	Remington, Patrick, MD, MPH	Population Health Sciences	Knowledge & Beliefs About the U.S. Health Care System, Measured Across Levels of Medical Training and Education
Benoy, Ryan, A	Herringa, Ryan, MD, PhD	Psychiatry	Analysis of Emotion Recognition and Eye Tracking in Youth with Post Traumatic Stress Disorder
Elissa, Matthew, S	Lubner, Meghan G, MD Pickhardt, Perry, MD	Radiology	Evaluation of 18-gauge Image-guided Biopsies for Peripheral Lung Nodules
Harari, Colin, M	Brace, Chris, Ph.D. Laeseke, Paul, MD, PhD	Radiology	Combination Therapies: Quantifying the Effects of Transarterial Embolization on Microwave Ablation Zones
Kasim, Jesse, A	Field, Aaron, MD, PhD	Radiology	MRI Quantification of Feline Demyelination
Valk, Ryan, D	Roldán-Alzate, Alejandro, MD	Radiology	Patient-Specific In Vitro Models for Hemodynamic Analysis of Congenital Heart Disease - Additive Manufacturing Approach
Blumenfeld, Allison A	Liepert, Amy, MD	Surgery	Mastery Learning for Sterile Technique During an Intern Preparatory Curriculum
Brummeyer, Brandon, T	Scarborough, John, MD Agarwal, Suresh, MD, FACS, FCCM, FCCP	Surgery	Effect of Insurance Status and Race on Treatment Decisions and Outcomes of Patients with Penetrating Torso Wounds
Carbullido, Mary, K	Mount, Delora, MD Wei, Thi Ha Myint, MD	Surgery	An Assessment of Surgical Disparities in Cleft Lip and Palate Patients in Myanmar
Chen, Alan	Scarborough, John, MD Agarwal, Suresh, MD, FACS, FCCM, FCCP	Surgery	Race and Socioeconomic Status as Predictors of Trauma Patient Transfers
Gunderson, Kirsten A	Jung, Hee Soo, MD Sullivan, Sarah, PhD	Surgery	Examining the Impact of Electronic Educational Tools on Feedback in Surgical Education
Jascor, Sasha, M	O'Rourke, Ann, MD, MPH Sullivan, Sarah, PhD	Surgery	Evaluation of Fourth Year Medical Student Retention of Online Modules from the Acting Internship and the Utility of Checklists in Clinical Simulation

**UW School of Medicine and Public Health  
2017 Medical Student Summer Research Projects (listed by Department)**

<b>Student</b>	<b>Mentor</b>	<b>Mentor Department</b>	<b>Title of Proposed Research Project</b>
L'Huillier, Joseph, C	Liepert, Amy, MD	Surgery	The Effects of Participation in an Acting Surgery Internship and Provision of a Checklist on Confidence and Anxiety in Surgical Simulation
Nguyen, Benjamin, P	Agarwal, Suresh, MD, FACS, FCCM, FCCP	Surgery	Insurance Status and Race Affect Treatment and Outcome of Severity Stratified Traumatic Brain Injury
Redemann, Brenna, A	Fall, George, MD	Surgery	Inguinal Hernia Surgical Outcomes
Ricker, Melissa M.	Winslow, Emily, MD, FACS	Surgery	Evaluation of the Coordination of Cancer Care by Multidisciplinary Teams and Its Effect on Patient Experience
Woldanski, Lauren, M	Agarwal, Suresh, MD, FACS, FCCM, FCCP	Surgery	Evaluation for Disparities in Treatment and Outcomes of Traumatic Spleen Injury
Velic, Andrew, J	Sullivan, Sarah, MD Liepert, Amy, MD	Surgery	Applying Mastery Learning to a Surgical Intern Preparatory Course
Nguyen, Michael, T	O'Rourke, Ann, MD, MPH	Surgery	Evaluating the Epidemiology of Falls within the Elderly Wisconsin Population
Tran, Helen	Mezrich, Joshua, MD	Surgery	Targeting the Aryl Hydrocarbon Receptor with Nanoparticles: A Natural Pathway for Alloimmune Tolerance
Atruktsang, Tenzin, S	Schneider, David, MD, MS	Surgery	Investigating Risk Factors for Increased Difficulty Finding Optimal LT4 Dose
Kanwar, Kavita	Schwarze, Margaret, MD, MPP	Surgery	A Communication Tool to Assist Frail Older Adults with End Stage Renal Disease
Perez, Alberto, A	Sippel, Rebecca, MD	Surgery	Identifying Risk Factors for Nephrolithiasis in Patients with Parathyroid Disease to Improve Detection and Treatment
Pham, Kim, Thien	Redfield, Robert, MD	Surgery	Characterization of Atacicept's Effects on B Cell Differentiation In Vitro
Xu, James, Chen	Pugh, Carla, MD, PhD	Surgery	Bleeding and Pulsatile Master Tourniquet Training Model
Hall, Bryan	Downs, Tracy, MD	Urology	Trends in Disparities in Cancer Incidence and Mortality Between American Indians and Whites in Wisconsin, 1995-2012
Anderson-Carter, India, A	Richards, Kyle, MD	Urology	The Impact of Statins Combined with Androgen Deprivation Therapy in Patients with Advanced Prostate Cancer
Li, Gande	E. Abel, Jason, MD, FACS	Urology	Evaluation of Tissue Biomarkers for Renal Cell Cancer