

Funding Radiology's Future®



*2017 RSNA R&E Foundation*

# GRANTS & AWARDS



## 2017

The advancement of our specialty relies on identifying talented investigators and providing them with resources to explore new territory, create knowledge and translate that information into new treatment protocols. The RSNA Research & Education Foundation is proud to lead this charge and has awarded over \$55 million in funding since its inception.

Great strides like these are only possible because of the support of our donors and as Inspire-Innovate-Invest: The Campaign for Funding Radiology's Future® approaches its conclusion, we need help across our entire community to finish strong and achieve our goal of \$17.5 million.

Launched at RSNA 2014 in honor of the RSNA Centennial, the Foundation's Campaign has aimed to bridge the gap created by a decline in traditional funding sources. We've made great progress in achieving our goal, and in 2017, the Foundation awarded \$4 million to researchers and educators at 50 institutions to reach a funding rate of 30 percent, a figure that is nearly three times greater than the rate from the NIH.

Now, as application submissions continue to climb, the support of the entire community is critical for our continued success. Funding research to help the next generation maintain intellectual leadership in medical imaging and image-guided therapy is the most important way we can support the future of our specialty.

As the end of the Campaign draws near, we are grateful for all of the individuals, private practice colleagues and corporate friends who have made an investment in our future—and as we strive to reach our goal, we invite everyone to join us.

Thank you for supporting the Foundation.

Sincerely,  
N. Reed Dunnick, MD  
Chair, R&E Foundation  
Board of Trustees

Read full grant abstracts  
and see how R&E  
Foundation grant  
recipients are making  
a difference at  
[RSNA.org/Grant\\_Search](http://RSNA.org/Grant_Search)



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# GRANT AND AWARD DESCRIPTIONS

## RESEARCH SCHOLAR GRANT

Our premier career development grant transitions junior faculty to independent investigators. Funding protects research time to conduct complex projects under the guidance of a mentor and scientific advisor in preparation for NIH funding. Two-year grant of \$150,000.

## RESEARCH RESIDENT/FELLOW GRANT

This grant provides investigators a chance to explore powerful ideas. Working alongside an experienced advisor, trainees gain insight into specific investigation and practice research methods and techniques; it is a catalyst to pursue research at a critical point in a radiologist's career. One-year grant of \$30,000 to \$50,000.

## EDUCATION SCHOLAR GRANT

Innovation in education can transform the way radiologists learn, understand and care for patients. This grant encourages development of new methods of teaching and evaluation and enables effective delivery for lifelong learning. One-year grant of up to \$75,000.

## RESEARCH SEED GRANT

Every great discovery starts with a spark. This grant provides seed money to test hypotheses and conduct pilot studies in preparation for major grant applications to corporations, foundations and government agencies. One-year grant of up to \$40,000.

## RESEARCH MEDICAL STUDENT GRANT

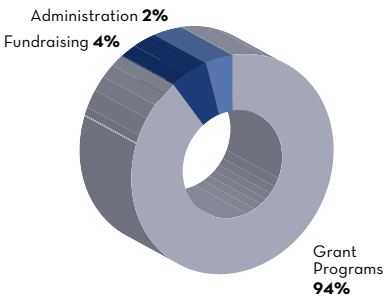
Exposure to radiology research in medical schools ignites a passion for the specialty. With support of the community and a network of mentors, a summer project can turn into a career-long pursuit of research and discovery. Grant of \$3,000, matched by the sponsoring department.

## ROENTGEN RESIDENT/FELLOW RESEARCH AWARD

The Foundation recognizes and encourages trainees who have made significant contributions to radiologic research as evidenced by presentations at regional or national meetings, publication of scientific papers, receipt of research grants and other research activities.

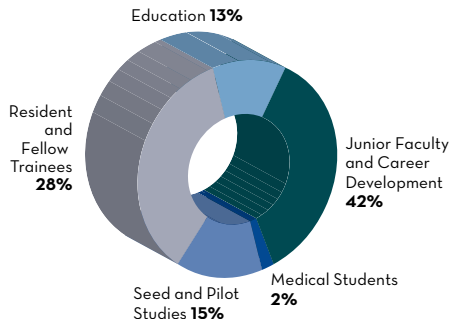
## WHERE DO YOUR DONATIONS GO?

*Low overhead puts more of your donations toward grant funding*



## HOW ARE GRANT DOLLARS DISTRIBUTED?

*Percent of grant dollars awarded by grant type in 2017*



# RECOGNITION AND THANKS

Through the generosity of our donors, the RSNA R&E Foundation is able to continue its investment in R&D for radiology.

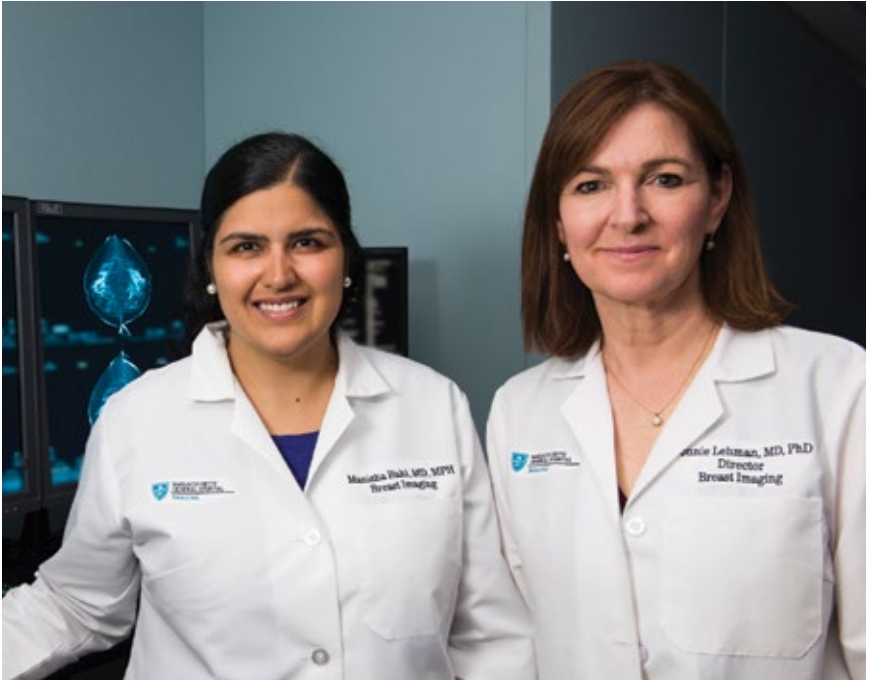
The Foundation acknowledges the distinguished individuals and the Visionaries in Practice (VIP) program donors who have established endowments and awards in their names or in the names of those honored.

**Austin Radiological Association**  
**Derek Harwood-Nash, MD**  
**Martin R. Prince, MD, PhD**  
**Ralph Schlaeger Charitable Foundation**  
**RSNA Presidents Circle**  
**Silver Anniversary Campaign Pacesetters**  
**Strategic Radiology**

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The Foundation is grateful for the major contributions from corporate donors through the Vanguard program.





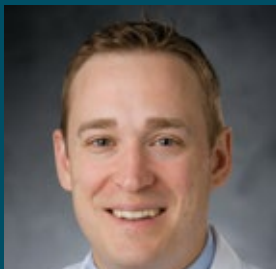
## R&E Embraces Machine Learning

Manisha Bahl, MD, MPH (left), with scientific advisor Constance D. Lehman, MD, PhD, will investigate the application of machine learning algorithms to risk-stratify patients with ductal carcinoma in situ (DCIS).

*“Development of a highly reliable prognostic tool for predicting the risk of concurrent invasive disease and future cancer recurrence in patients with DCIS would improve clinical decision-making and decrease the morbidity and costs of overtreatment of DCIS,” said Dr. Bahl. “If successful, this machine learning model could support more targeted and precise treatment options for women diagnosed with non-invasive breast cancer.”*

— Manisha Bahl, MD, MPH





## Timothy J. Amrhein, MD

*Duke University*

**A Randomized Trial of CT Fluoroscopy-guided Targeted Autologous Blood and Fibrin Glue Patching for Treatment of Cerebrospinal Fluid Leaks in Spontaneous Intracranial Hypotension**

GE Healthcare/  
RSNA Research Scholar Grant



GE Healthcare

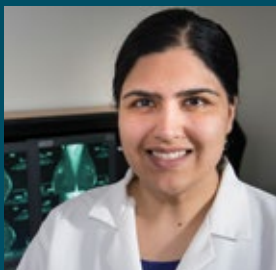


## Jalal B. Andre, MD

*University of Washington*

**Evaluating the Prevalence, Temporal Etiology and Cost of Patient Motion During Clinical MR Examinations**

RSNA Research Scholar Grant

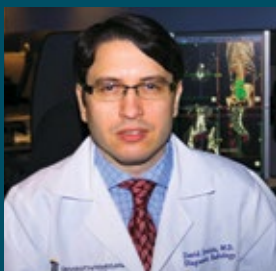


## Manisha Bahl, MD, MPH

*Massachusetts General Hospital*

**Machine Learning to Predict Risk of Upgrade and Recurrence of Ductal Carcinoma In Situ**

Agfa HealthCare/RSNA  
Research Scholar Grant



## David Dreizin, MD

*University of Maryland School of Medicine  
and R Adams Cowley Shock Trauma Center*

**Development and Validation of an MDCT-based Decision Support and Outcome Prediction Tool for Bleeding Pelvic Fractures Using Semi-automated Volumetric Hematoma Analysis and Probabilistic Modeling**

RSNA Research Scholar Grant

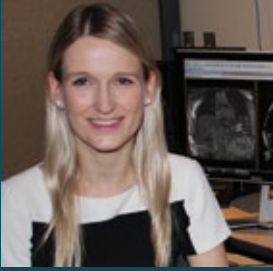


## Richard S. Ha, MD

*Columbia University*

**The Effect of Ulipristal Acetate (UPA) on Breast Cell Proliferation Measured by Ki-67 and Breast MRI BPE and its Potential as a Chemoprevention Agent**

RSNA Research Scholar Grant



## Kate Hanneman, MD

*University of Toronto*

**Exploring the Relationship Between Left Ventricular Outflow Tract Obstruction, Exercise-induced Troponin Release and Myocardial Fibrosis in Hypertrophic Cardiomyopathy Using Molecular and Imaging Biomarkers**

GE Healthcare/RSNA  
Research Scholar Grant



GE Healthcare



## Jeremy Josef Heit, MD, PhD

*Stanford University School of Medicine*

**Resting State Spontaneous Fluctuations of the BOLD Signal for Penumbra Assessment in Endovascular Stroke Candidates**

Bracco Diagnostics Inc./RSNA  
Research Scholar Grant



LIFE FROM INSIDE



## Misun Hwang, MD

*Children's Hospital of Philadelphia*

**Improved Diagnosis and Prognostication of Neonatal Hypoxic Ischemic Injury With Combined Contrast Enhanced Ultrasound and Elastography**

RSNA Research Scholar Grant



## Laura Jimenez-Juan, MD

*Sunnybrook Health Sciences Centre, University of Toronto*

**Towards an Early Detection of Coronary Artery Bypass Graft Failure: A Computational Fluid Dynamics Approach Based on CT and 4D-flow MRI**

Agfa HealthCare/RSNA Research Scholar Grant



## Anusha Kalbasi, MD

*University of California, Los Angeles*

**Uncoupling the Tumor Promoting and Wound Healing Properties of Macrophages in the Irradiated Microenvironment**

RSNA Research Scholar Grant



## **Austin Kirschner, MD, PhD**

*Vanderbilt University Medical Center*

**Mechanism of PIM1 Kinase-mediated Radiosensitization for Prostate Cancer Treatment**

RSNA Research Scholar Grant



## **Robert J. McDonald, MD, PhD**

*Mayo Clinic, Minnesota*

**Assessment of the Clinical Effects of Intracranial Gadolinium Tissue Deposition Following Intravenous Administration of Gadolinium Based Contrast Agents Using a Preclinical Rat Model**

Bayer HealthCare/RSNA Research Scholar Grant



## **Rajni Natesan, MD, MBA**

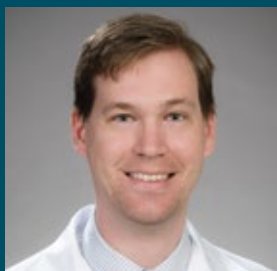
*The University of Texas MD Anderson Cancer Center*

**Impact of the Updated 2015 American Cancer Society and 2016 United States Preventive Services Task Force Breast Cancer Screening Guidelines on Screening Mammography Utilization Rates and Screen-detected Breast Cancer Across Demographic Groups in the Greater Houston Area**

Carestream Health/RSNA Research Scholar Grant

*Rajni Natesan, MD, MBA (left), shown with scientific advisor Jessica Leung, MD*

**Carestream**

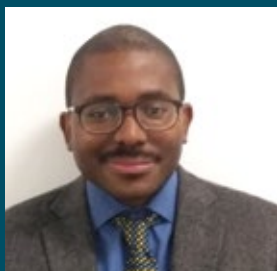


## **Matthew J. Nyflot, PhD**

*University of Washington*

**Quantitative Sulfur Colloid SPECT/CT Radiomics to Guide Precision Radiotherapy for Patients with Hepatocellular Carcinoma**

RSNA Research Scholar Grant



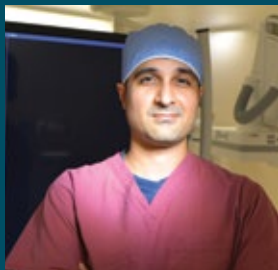
## **Ronnie Alex Sebro, MD, PhD**

*University of Pennsylvania*

**Integrated Biomarker PET/CT Imaging Trial for Assessing Hypoxia in Soft Tissue Sarcomas Using a Novel PET/CT Tracer**

RSNA Research Scholar Grant





## Rahul Anil Sheth, MD

The University of Texas MD Anderson Cancer Center

**Antitumor Immune Activation by Molecularly Targeted Photothermal Ablation for the Treatment of Hepatocellular Carcinoma**

RSNA Research Scholar Grant



## Elizabeth J. Sutton, MD

Memorial Sloan Kettering Cancer Center

**Percutaneous Breast MRI Biopsy as an Alternative to Surgery in Diagnosing a Complete Pathologic Response Post Neoadjuvant Chemotherapy**

Guerbet/RSNA Research Scholar Grant

Guerbet | 



## Takeshi Yokoo, MD, PhD

UT Southwestern Medical Center

**Validation of Optimized Dixon-based MRI Techniques for Noninvasive Evaluation of Renal Steatosis**

Siemens Healthineers/RSNA Research Scholar Grant

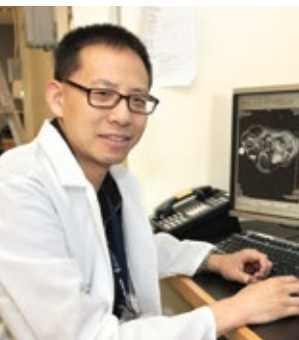
SIEMENS  
Healthineers 

## Your Investment, Radiology's Success

*"The salary support provided by the Scholar Grant was invaluable in protecting my time and allowed me to use my department startup funding towards supplies and materials for my work. As a result, nearly all of my upcoming grant proposals will be based off of work that is attributable to either my Resident or Scholar Grant from RNSA."*

*"Participating in the RSNA Advanced Course in Grant Writing program has been incredibly valuable as well. Taken in concert with my Research Scholar Grant, it has truly transformed the way I have approached and written grants and has already translated into an NIH-funded Boston Biomedical Innovation Center (B-BIC) Drive Grant."*

— Leo L. Tsai, MD, PhD, MSc

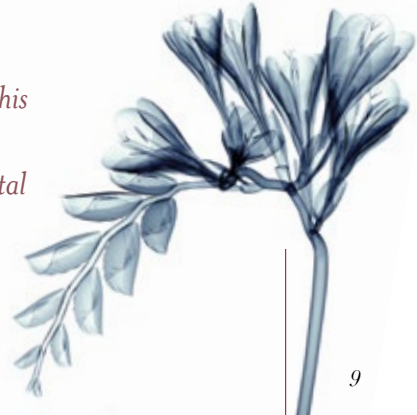




## Grant Recipients Tag-Team to Tackle Colorectal Liver Metastasis

Steven Yevich, MD, MPH (center), under the scientific guidance and mentorship of past R&E grant recipients Alda Tam, MD, MBA (right), and Rony Avritscher, MD (left), will investigate the pharmacokinetics, toxicity and tumoricidal effects of an irinotecan-lipiodol nano-emulsion delivered via a transportal route in a rat colorectal liver metastasis model in comparison to the intra-arterial delivery.

*“We hypothesize that a portal delivery will lead to greater conversion of irinotecan into the active chemotherapeutic metabolite, SN-38, which will result in improved locoregional tumoricidal effect on colorectal liver metastases,” said Dr. Yevich. “Ultimately, we hope this will lead to the development of a new IR treatment option with greater therapeutic outcomes for colorectal liver metastases.”*





## Alessandro Furlan, MD

*University of Pittsburgh Medical Center*

**Towards an MR-based Computer-aided Diagnostic Program for the Classification of Risk of Hepatocellular Carcinoma Using the Liver Imaging Reporting and Data System**

Hitachi Medical Systems/RSNA Research Seed Grant

**HITACHI**  
Inspire the Next



## Sana D. Karam, MD, PhD

*University of Colorado*

**Combined Inhibition of EphB4 and EGFR Signaling Enhances Radiosensitization in Head and Neck Cancers**

Toshiba America Medical Systems and Canon Group/RSNA Research Seed Grant

**TOSHIBA  
MEDICAL**

**Canon**  
CANON GROUP



## Mario Maas, MD, PhD

*Academic Medical Center, University of Amsterdam*

**Is Diagnosing Osteochondral Defects in the Talar Joint with T1rho and T2 Mapping the Future?**

Toshiba America Medical Systems and Canon Group/RSNA Research Seed Grant

**TOSHIBA  
MEDICAL**

**Canon**  
CANON GROUP



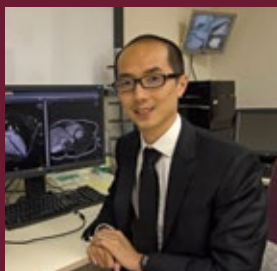
## Eduardo Jose Mortani Barbosa, Jr., MD

*University of Pennsylvania*

**Quantitative Measurement of CT Texture Patterns in Fibrosing Interstitial Lung Diseases: Evaluation of New Imaging Biomarkers for Improved Disease Classification, Stratification of Severity and Prediction of Prognosis**

Fujifilm Medical Systems/RSNA Research Seed Grant

**FUJIFILM**  
Value from Innovation

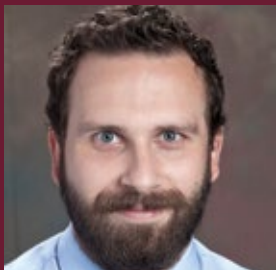


## Ming-Yen Ng, MBBS

*The University of Hong Kong*

**Cardiac Magnetic Resonance for Asymptomatic Type 2 Diabetics with Cardiovascular High Risk (CATCH): A Pilot Study**

RSNA Research Seed Grant



## **Adam Benjamin Prater, MD, PhD**

*Emory University*

**Comparison of Multi-parametric Feature Extraction Methods for Outcome Prediction in Patients with Aneurysmal Subarachnoid Hemorrhage**  
RSNA Research Seed Grant



## **Andrei S. Purysko, MD**

*Cleveland Clinic*

**Radiogenomics of Multiparametric Magnetic Resonance Imaging Visible and Invisible Prostate Cancers**  
Philips/RSNA Research Seed Grant

**PHILIPS**



## **Andre Uflacker, MD**

*University of Virginia*

**Treatment of Knee Osteoarthritis with Intra-arterial Particle Embolization in a Non-surgically Induced Ovine Model**  
RSNA Research Seed Grant

*Andre Uflacker, MD (left) shown with scientific advisor Ziv J. Haskal, MD*



## **Derek Lamont West, MD**

*Emory University*

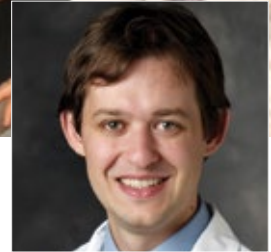
**Optimization of Electroporation-assisted Nanoparticle Uptake in a Pancreatic Nude Mouse Model**  
RSNA Research Seed Grant



## **Steven Yevich, MD, MPH**

*The University of Texas MD Anderson Cancer Center*

**Transportal Irinotecan Chemoembolization Using a Lipiodol Nano-emulsion (TICL) for the Treatment of Colorectal Liver Metastases in Rat**  
RSNA Research Seed Grant

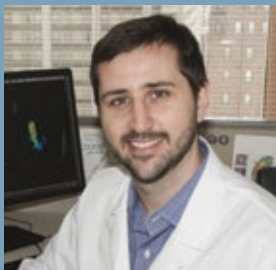


## Improving the Value of Medical Imaging

Bridging the disciplines of neuroscience, computer science, medical imaging and informatics, 2017 RSNA Research Resident Grant recipient Andreas Rauschecker, MD, PhD, is pursuing an approach that combines advances in the fields of image processing and artificial intelligence to perform automated neuroradiologic diagnosis.

*“Proof-of-concept development will focus on image-based feature quantification algorithms for lesion detection and characterization in two traditionally difficult sets of neuroimaging disease types: those involving the basal ganglia and those involving the white matter,” said Dr. Rauschecker. “These general methods, when established, may apply to other pathologies and to other organ systems in the future, providing a framework for artificial intelligence algorithms that can transform images to differential diagnosis for both common and rare diseases. Our hope is that these types of algorithms can greatly aid both the accuracy and efficiency of the interpreting radiologist.”*





## **Bradley D. Allen, MD**

*Northwestern University Feinberg School of Medicine*

**Cardiac MRI and PET for Early Diagnosis and Screening in Chemotherapy-induced Cardiotoxicity**

RSNA Research Resident Grant

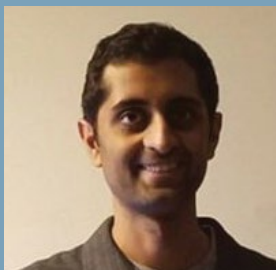


## **Patricia Balthazar, MD**

*Emory University*

**Disparities in the Utilization of Emergency Department Computed Tomography for Common Illnesses: An All-payer Population-based Study**

RSNA Research Resident Grant



## **Sharath Bhagavatula, MD**

*Brigham and Women's Hospital*

*Harvard Medical School*

**Development and Characterization of a System for Real-time Photoacoustic Image Guided Percutaneous Needle Interventions**

Philips/RSNA Research Resident Grant

**PHILIPS**

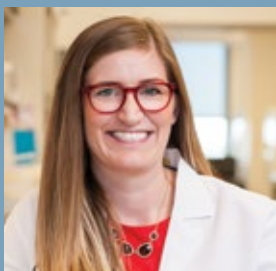


## **Aadel Chaudhuri, MD, PhD**

*Stanford University School of Medicine*

**Circulating Tumor DNA Quantitation as a Prognostic Biomarker for Locally Advanced Esophageal Cancer Treated with Chemoradiation**

RSNA Research Resident Grant



## **Lauren Colbert, MD, MSCR**

*The University of Texas MD Anderson Cancer Center*

**A Prospective Study Characterizing Genomic and Immunologic Differences Driving Variable Radiation Response within HPV-related Cervical Carcinomas**

RSNA Research Resident Grant



## Matthew Nicholas DeSalvo, MD

Massachusetts General Hospital

**Using High Temporal Resolution Functional MRI to Correlate Directional Resting-state Functional Connectivity and Surgical Outcome in Unilateral Temporal Lobe Epilepsy**

Bracco Diagnostics Inc./RSNA  
Research Resident Grant



LIFE FROM INSIDE

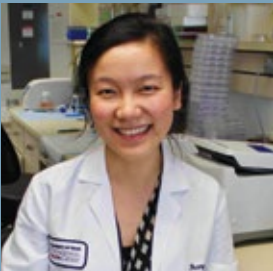


## Azadeh Elmi, MD

University of Pennsylvania

**PET Cell Proliferation Imaging Biomarker for Combined Estrogen Receptor and Cell-cycle Targeted Breast Cancer Therapy**

RSNA Research Resident Grant

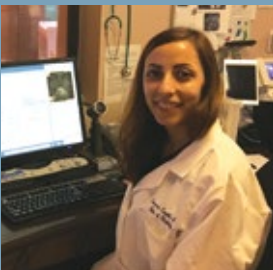


## Penny Fang, MD

The University of Texas MD Anderson Cancer Center

**Microbiome Profile as a Predictive Biomarker for Non-small Cell Lung Cancer Response to Chemoradiation and Immunotherapy Treatment**

RSNA Research Resident Grant



## Soudabeh Fazeli Dehkordy, MD, MPH

University of California, San Diego

**Patient Reported Outcomes for Conventional Ultrasound and Investigational Abbreviated MRI in an HCC Screening Population**

Philips/RSNA Research Resident Grant

**PHILIPS**

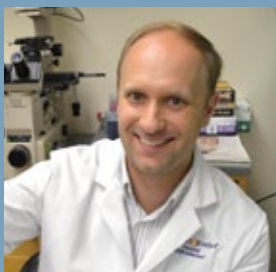


## Tim Finkenstaedt, MD

University of California, San Diego

**Non-invasive Assessment of Knee Cartilage and Meniscus Integrity by Magnetic Resonance Imaging with Ultra-short Echo Time (UTE) Pulse Sequences**

RSNA Research Fellow Grant



## John Martin Floberg, MD, PhD

Washington University School of Medicine in  
St Louis Barnes-Jewish Hospital

### Imaging Oxidative Stress in Cervical Cancer: A Potential Biomarker for Traditional and Novel Therapies

Varex Imaging/RSNA Research Resident Grant



## Thomas F. Flood, MD, PhD

University of Colorado

### The Neurological Signature of Chronic Low Back Pain: fMRI-based Biomarker Characterization in a Clinical Population

RSNA Presidents Circle Research Resident Grant

Thomas F. Flood, MD, PhD (right), shown  
with scientific advisor Tor Wager, PhD



## Samuel J. Galgano, MD

University of Alabama at Birmingham

### Pretreatment Staging of High-risk Prostate Cancer with F-18 Fluciclovine PET/MRI

RSNA Research Fellow Grant

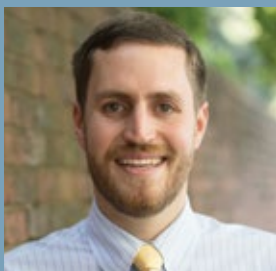


## Peiman Habibollahi, MD

University of Pennsylvania

### Glypican-3 Targeting for Catheter Directed Adoptive Immunotherapy of Hepatocellular Carcinoma

RSNA Research Fellow Grant

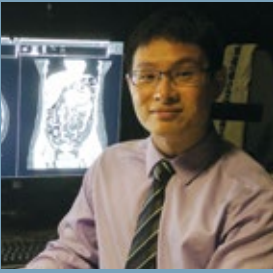


## Thomas J. Hayman, MD, PhD

Yale University School of Medicine

### Targets for Radiosensitization of HPV-negative Head and Neck Squamous Cell Carcinoma

RSNA Research Resident Grant

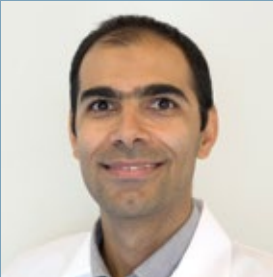


## Cheng William Hong, MD, MS

*University of California, San Diego*

**Reader Agreement of LI-RADS V2017**

RSNA Research Resident Grant

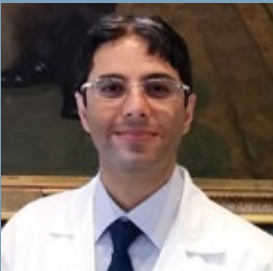


## Amin Haghghat Jahromi, MD, PhD

*University of California, San Diego*

**Developing a Novel Paramagnetic Fluorinated Nanoemulsion for Sensitive Imaging of Inflammation by Fluorine-19 Magnetic Resonance Imaging**

Cook Medical Cesare Gianturco/RSNA Research Resident Grant



## Iman Khodarahmi, MD, PhD

*Johns Hopkins University School of Medicine*

**Evaluation of Hip Arthroplasty Implant Heating During Metal Artifact Reduction Sequence Magnetic Resonance Imaging**

Ralph Schlaeger Charitable Foundation Research Fellow Grant

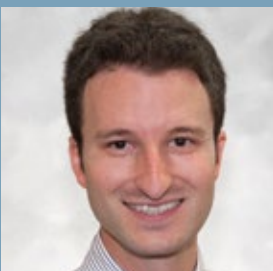


## Anderson H. Kuo, MD

*The University of Texas Health Science Center at San Antonio*

**Cardiac Magnetic Resonance Spectroscopy for Detection of Obesity with Normal Weight: Cardiac Lipotoxicity in Intrauterine Growth Restricted Adults**

RSNA Research Resident Grant



## Brian S. Letzen, MD

*Yale University School of Medicine*

**Development of an Automated Liver Imaging Reporting and Data System Using Deep Machine Learning**

Philips/RSNA Research Resident Grant





## Ariel E. Marciscano, MD

*Johns Hopkins University School of Medicine*

**Non-invasive Molecular Oncologic Imaging to Elucidate Mechanisms of Synergy Between Stereotactic Radiotherapy and Immune Checkpoint Blockade**  
RSNA Research Fellow Grant



## Aaron W.P. Maxwell, MD

*The Warren Alpert Medical School of Brown University*

**Comparison of Percutaneous and Endobronchial Administration of a Novel Thermal Accelerant Agent for Augmentation of Tissue Heating During Microwave Ablation in Lung**  
RSNA Research Resident Grant



## Ali Yusuf Mian, MD

*Yale University School of Medicine*

**Do In Vivo Synaptic Density Changes in the Glutamine Synthetase Inhibition Model of Epilepsy in Rats Mirror Those Seen in Living Human Epilepsy Patients Using the Novel SV2A PET Tracer C11-UCB-J?**  
RSNA Research Fellow Grant



## Sweet Ping Ng, MBBS

*The University of Texas MD Anderson Cancer Center*

**Using Multi-parametric Tumor Imaging Kinetics and Circulating Tumor Cells to Predict Response in Patients with High-risk Head and Neck Cancer: Matching “Liquid Biopsy” and Quantitative Tumor Modeling**  
RSNA Research Fellow Grant

*Sweet Ping Ng, MBBS (right), with scientific advisor Clifton D. Fuller, MD, PhD*



## Sana Parsian, MD

*University of Washington*

**Breast MRI Background Parenchymal Enhancement: Biological Basis and Utility for Predicting Effectiveness of Chemoprevention with Selective Estrogen Receptor Modulators**  
RSNA Research Fellow Grant



## Ravi Patel, MD, PhD

*University of Wisconsin*

**Utilization of Radiotherapy to Enhance the Efficacy of Systemic Dual Checkpoint Inhibition in Preclinical Metastatic Cancer Models**

RSNA Research Fellow Grant

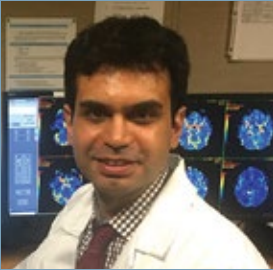


## Vishal Patel, MD, PhD

*University of California, Los Angeles*

**Quantifying White Matter Changes in Aging and Dementia Through Sparse Encoding of Diffusion-weighted MRI of the Brain**

RSNA Research Resident Grant



## Seyedmehdi Payabvash, MD

*University of California, San Francisco*

**Evaluation of White Matter Connectome Changes in Children with Sensory Processing Disorders Using Edge Density Imaging**

Silver Anniversary Campaign Pacesetters Research Fellow Grant



## Benjamin Pulli, MD

*Massachusetts General Hospital*

**Multimodal Molecular Imaging Profiling of Thrombus in Acute Ischemic Stroke**

Prince Research Resident Grant



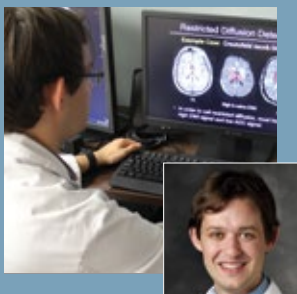
## Priya Rajagopalan, MBBS, MPH

*Indiana University School of Medicine*

**Cerebral Perfusion Alterations in Cortisol Related Gene Carriers: A Potential Alzheimer's Disease Pathway**

RSNA Research Resident Grant

*Priya Rajagopalan, MBBS, MPH (left), with scientific advisor Andrew Saykin, PsyD*

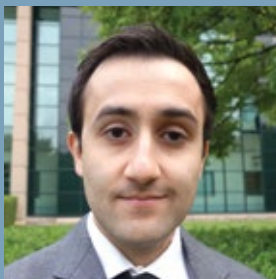


## Andreas M. Rauschecker, MD, PhD

*University of Pennsylvania*

**Automated Neuroradiologic Diagnosis Using Customized Advanced Image Processing Algorithms and Bayesian Networks**

RSNA Research Resident Grant

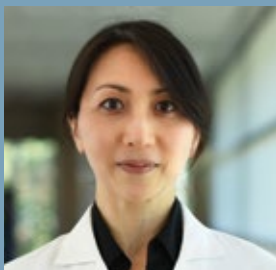


## Hersh Sagreiya, MD

*Stanford University School of Medicine*

**Quantitative Analysis of Ovarian Cancer with Novel Molecular Ultrasound Agent BR55**

RSNA Research Fellow Grant

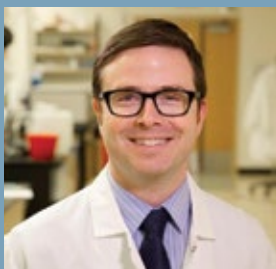


## Elizabeth Tong, MD

*University of California, San Francisco*

**Effects of Brain Training on Brain Network Connectivity in Pre-clinical Huntington's Disease**

RSNA Research Fellow Grant



## Joshua Matthew Walker, MD, PhD

*Oregon Health & Science University*

**Correlates of T Cell Activation in Mouse Radiotherapy Models**

RSNA Research Resident Grant



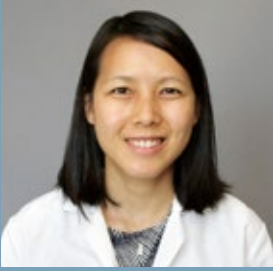
## Jeffrey Ware, MD

*University of Pennsylvania*

**Implementation and Validation of a Clinical Resting State Functional MRI Protocol for Prognostic Evaluation of Acute Brain Injury**

Siemens Healthineers/RSNA  
Research Fellow Grant

**SIEMENS**  
**Healthineers**

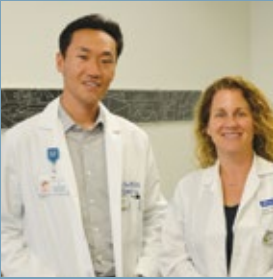


## Catherine J. Wei, MD, PhD

*Beth Israel Deaconess Medical Center*

**Comparing Restriction Spectrum Imaging (RSI) to Conventional and Abbreviated Breast MRI for Breast Cancer Screening**

RSNA Research Resident Grant



## Ye Yuan, MD, PhD

*University of California, Los Angeles*

**The Role of MicroRNA-34 in the DNA Damage Response and Cancer Cell Immune Evasion Via Regulation of PD-L1 After Ionizing Radiation**

RSNA Research Resident Grant

*Ye Yuan, MD, PhD (left), with scientific advisor and past R&E recipient Joanne B. Weidhaas, MD, PhD, MSM*



## Kevin Amir Zand, MD

*University of Mississippi Medical Center*

**Comparative Effectiveness of Noninvasive Imaging Tests for Staging Chronic Liver Disease**

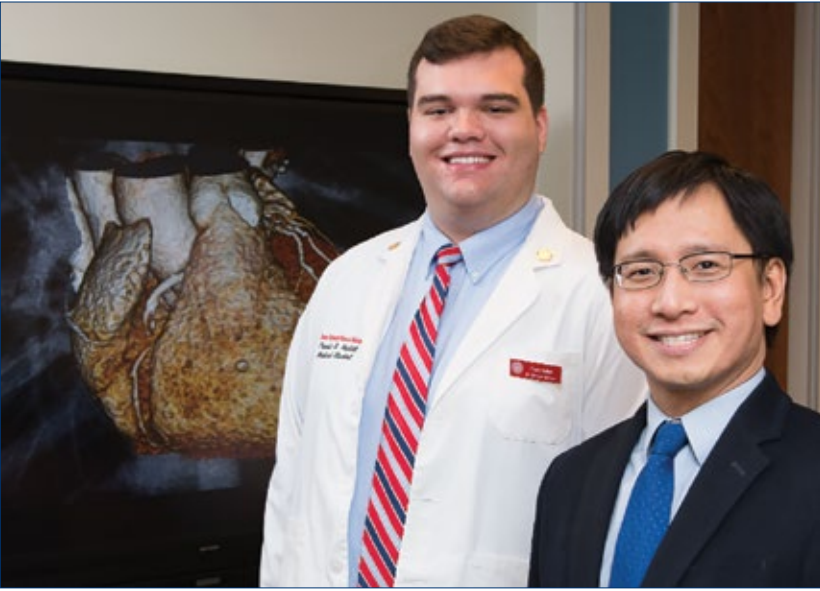
RSNA Research Resident Grant



## Thank You Donors...

*"I would like to take this opportunity to express my gratitude and appreciation for your support of our research project. The Silver Anniversary Campaign Pacesetter Fellow grant will allow us to develop new imaging biomarkers for diagnosis of sensory processing abnormalities in children with Sensory Processing Disorder, and open new horizons in evaluation of other neurodevelopmental and cognitive deficits in children."*

*— Sam (Seyedmehdi) Payabvash, MD*



## Launching Careers: From Medical Student to Mentor

Fujifilm Medical Systems/RSNA Research Medical Student Grant recipient Travis R. Hallett, BA (left), aims to identify and track imaging biomarkers to study the long-term effects of HIV on the heart, and to identify possible interventions. Travis will conduct this exciting research under the scientific guidance and mentorship of past Research Medical Student Grant recipient Michael T. Lu, MD, MPH.

*“As a 2005 recipient of the RSNA Medical Student Research Grant, I have a very good understanding of how important this award will be for Travis,” said Dr. Lu. “Like Travis, I was a medical student with a budding interest in academic radiology – receiving the R&E grant as a medical student solidified my commitment and was critical for launching my career.”*





## **Anup K. Bhattacharya, BA**

*Enrolled at Lewis Katz School of Medicine at Temple University  
Research conducted at Thomas Jefferson University Hospital*

**Identification of a Resting State Imaging Biomarker to Predict Response to Deep Brain Stimulation in Parkinson's Disease**

RSNA Research Medical Student Grant



## **Luke William Bonham, BS**

*Enrolled at Johns Hopkins University  
Research conducted at University of California, San Francisco*

**Development of a Multi-modal Imaging Risk Gradient Score for Alzheimer's Disease Prediction**

Canon U.S.A./RSNA Research Medical Student Grant

**Canon**



## **Alex K. Bryant, BS**

*University of California, San Diego*

**Outcomes of Anal Cancer Among HIV Positive Patients in the Veterans Affairs System**

RSNA Research Medical Student Grant



## **Evan Chen, BS**

*Yale University School of Medicine*

**Identifying Enhancement-based Staging Markers on Baseline MR Imaging in Patients with Colorectal Cancer Liver Metastases Undergoing Loco-regional Tumor Therapy**

RSNA Research Medical Student Grant

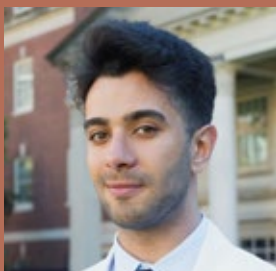


## **Ting-Wei Fan, BS**

*Keck School of Medicine of the USC*

**Radiomics Evaluation of Bladder Cancer: Differentiating Transitional Cell Carcinoma From Micropapillary Carcinoma**

RSNA Research Medical Student Grant

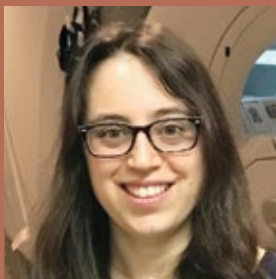


## Arash Fereydooni, MS

*Yale University School of Medicine*

**Inrotecan-eluting LC Bead-M1 (DEBIRI-M1) for Patients with Liver Metastases From Colorectal Cancer: A Phase II Single-center Study**

RSNA Research Medical Student Grant



## Rosalind Gerson, MSc

*Dalhousie University*

**Quantification of Hepatic, Splenic, and Pancreatic Fat Fraction and R2\* by 3T MR, a Cross-sectional Study**

RSNA Research Medical Student Grant



## Elias Taylor Gunnell, MS, BS

*University of North Carolina at Chapel Hill*

**Coronary Artery Calcium Scoring by Cardiac Gated-stationary Digital Tomosynthesis**

RSNA Research Medical Student Grant



## Syed F. Haider, BS

*Icahn School of Medicine at Mount Sinai*

**Predicting Outcomes Using Multimodal MRI Biomarkers in Cervical Spondylotic Myelopathy**

RSNA Research Medical Student Grant



## Travis R. Hallett, BA

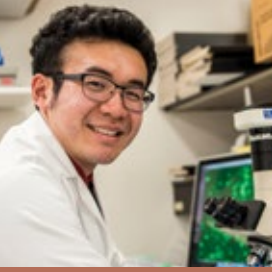
*Enrolled at Boston University School of Medicine*

Research conducted at Massachusetts General Hospital

**Epicardial Adipose Tissue and High-risk Plaque Features in HIV-accelerated Coronary Artery Disease**

Fujifilm Medical Systems/RSNA  
Research Medical Student Grant

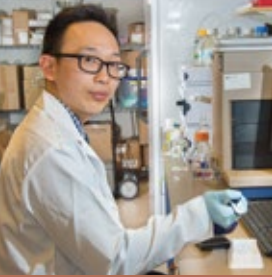
**FUJIFILM**  
Value from Innovation



## Jingran Ji, BA

*Northwestern University Feinberg School of Medicine*

**Transcatheter Bacteriolytic Therapy with Iron Oxide Labeled Clostridium novyi-NT Spores**  
RSNA Research Medical Student Grant



## Daniel Kwon, MSc

*University of British Columbia,  
BC Cancer Research Centre*

**Matriptase as an Emerging and Promising Target for PET Imaging of Invasive Epithelial Cancers**  
Philips/RSNA Research Medical Student Grant

**PHILIPS**



## Gwendolyn Joyce McGinnis, BS

*Oregon Health & Science University*

**[18F]DPA-714 PET Imaging of Minocycline Treatment for Radioimmunotherapy-related Neuroinflammation and Neurocognitive Impairment**  
RSNA Research Medical Student Grant

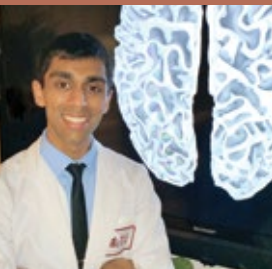


## Anna Sophia McKenney, PhD, MPH

*Enrolled at Weill Cornell Medical College*

Research conducted at Memorial Sloan Kettering Cancer Center

**Texture Feature and 4D Texture Kinetic Analyses of Dynamic Contrast Enhanced T1 MRI Perfusion of Pseudoprogression in Glioblastoma**  
RSNA Research Medical Student Grant



## Ricky R. Savjani, BS

*Houston Methodist Hospital and Texas A&M University*

**Developing an Automated Pipeline for Functional Characterization of the Boundary of Intracranial Lesions Using Resting-state fMRI**  
RSNA Research Medical Student Grant

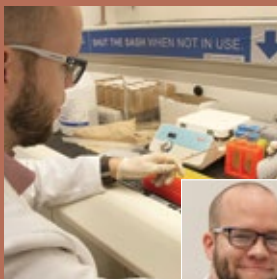


## **Ashley Joy Schlafstein, BA**

*Emory University*

**Understanding and Exploiting SAMHD1 in DNA Repair for Cancer Therapy**

RSNA Research Medical Student Grant



## **Ryan Joseph Slovak, BS**

*Enrolled at the University of Connecticut*

Research conducted at Yale University School of Medicine

**Enhancing Immunotherapy with Combined Image Guided Cryotherapy and PD-1 Axis Inhibition in a Murine Colorectal Model**

RSNA Research Medical Student Grant



## **Marina Stukova, BS**

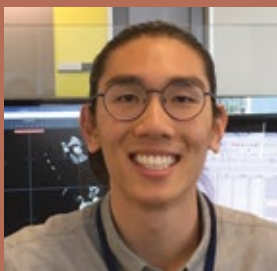
*Enrolled at San Juan Bautista School of Medicine*

Research conducted at Johns Hopkins University

**Evaluating Choline Metabolism in Vivo: Targeting GPPD5 and GPPD6 in Orthotopic Human Breast Cancer Xenograft Models**

RSNA Research Medical Student Grant

*Marina Stukova, BS (right), with scientific advisor Kristine Glunde, MS, PhD*



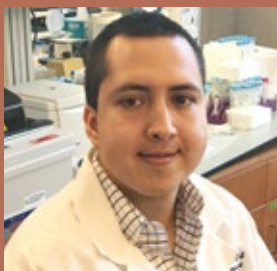
## **Justin Sun, BS**

*Enrolled at Lewis Katz School of Medicine at Temple University*

Research conducted at University of California, San Diego

**Evaluation of Quantitative Cardiac Function and Volumes with Single Breath-hold Volumetric Cardiac MRI and Deep Learning Segmentation**

RSNA Research Medical Student Grant



## **Jose Viramontes, BS**

*The University of Texas Health Science Center at Houston, McGovern Medical School*

**Optimization of Electroporation-assisted Nanoparticle Uptake in a Pancreatic Nude Mouse Model**

RSNA Research Medical Student Grant



## **Noah Wasserman, BA**

*Washington University in St Louis  
Mallinckrodt Institute of Radiology*

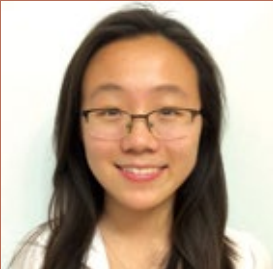
**Radiomics of Immune Checkpoint Therapy**  
RSNA Research Medical Student Grant



## **Jacob F. Wynne, BS**

*Emory University*

**The Role of SIRT2 and its Inhibitors in the DNA  
Damage Response and the Treatment of  
BRCA1-associated Malignancies**  
RSNA Research Medical Student Grant



## **Annie Xiao, BS**

*University of Chicago*

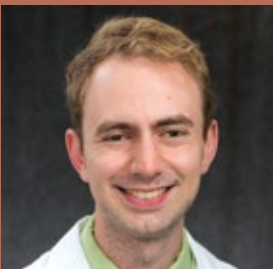
**Quantitative T1/T2 Mapping of Salivary Gland  
Tumors: MRI Correlation with Histopathological  
Features of Cellularity and Malignancy**  
RSNA Research Medical Student Grant



## **Minerva Zhou, BS**

*Washington University in St Louis  
Mallinckrodt Institute of Radiology*

**Simulating Methods of Care Delivery to  
Assess Patient-centered Outcomes in Acute  
Ischemic Stroke**  
RSNA Research Medical Student Grant



## **Andrew Zureick, BA**

*Enrolled at University of Michigan  
Research conducted at Massachusetts General Hospital*

**Partial Brain vs. Craniospinal Irradiation for Posterior Fossa  
Tumors: Using Quantitative MRI Analysis to Predict Adverse  
Neurocognitive Effects and Late Radiation-induced Changes**  
Canon U.S.A./RSNA Research Medical Student Grant



## Improving Breast Cancer Detection by Improving Resident Preparedness

RSNA Education Scholar Grant recipient Evguenia Jane Karimova, MD, will develop and test a new educational method to improve teaching of screening mammography to radiology residents. Utilizing a deliberate practice (DP) model of simulation-based learning, immediate feedback and gradual increasing case complexity to steadily improve perception and interpretation, Dr. Karimova sets her sights on improving breast cancer detection by bridging the gap between the performance of residents and national benchmarks in interpreting screening mammograms.

*“To implement the main idea of this project, we will develop and integrate DP training exercises into the curriculum during breast imaging rotations,” said Dr. Karimova. “The results of this project will be broadly disseminated with the goal of wide adoption of this newly developed curriculum across radiology training programs.”*





## Andres R. Ayoob, MD

*University of Kentucky*

**Development of a Web-based Curriculum to Prepare Diagnostic Radiology Residents During their Post-graduate Year 1 by Promoting Learning via Retrieval Practice and Spaced Repetition**

Philips/RSNA Education Scholar Grant

**PHILIPS**



## Kathryn E. Darras, MD

*University of British Columbia*

**Technology-Enhanced Undergraduate Anatomy Education: Development of a Blended Curriculum for Digital Dissection**

RSNA Education Scholar Grant



## Richard Duszak, MD

*Emory University*

**Radiology Economics and Policy Learning Electronic Toolkit (REPLeT)**

GE Healthcare/RSNA Education Scholar Grant



GE Healthcare



## Erin Gillespie, MD

*University of California, San Diego*

**eContour 2.0: Simulation-based Education to Eliminate the Quality Gap in Radiation Oncology**

RSNA Education Scholar Grant



## Evguenia Jane Karimova, MD

*Beth Israel Deaconess Medical Center*

**Simulation-based Teaching of Screening Mammography Using Deliberate Practice on Cancer Enriched Case Sets**

RSNA Education Scholar Grant



## Jennifer L. Nicholas, MD, MHA

Washington University in St Louis  
Mallinckrodt Institute of Radiology

**Facilitating a Radiology Curriculum for Radiology Residents in Haiti Using Tablet Computers**

AUR/RSNA Education  
Scholar Grant



## Monica Majmunder Sheth, MD

Hofstra Northwell School of Medicine

**Bridging the Gap Between Residency Training and Clinical Practice: The Development of Entrustable Professional Activities for Breast Imaging (EPA-BR), EPA-BR Based Curriculum and Self-assessment Modules**

RSNA Education Scholar Grant



## Kofoworola O. Soyebi, MBChB

University of Lagos, Idi-Araba, Lagos, Nigeria

**Capacity Building in Prevention of Sickle Cell Disorder Related Stroke in Nigerian Children**

Derek Harwood-Nash Education Scholar Grant



## Marc H. Willis, DO

Baylor College of Medicine

**Technology Enhanced Learning: Medical Student Education Simulation Utilizing Clinical Decision Support (Teaching Medical Students to Select the 'Right Test' at the 'Right Time' for the 'Right Reason')**

GE Healthcare/RSNA  
Education Scholar Grant



GE Healthcare





Roentgen Resident/Fellow Research Award recipient Vinay Prabhu, MD, MS (right), with Vice-Chair for Education Nancy R. Fefferman, MD, of New York University Langone Medical Center

## TRAINEES FOLLOW IN WILHELM ROENTGEN'S FOOTSTEPS - THE PURSUIT OF KNOWLEDGE

*“Trainees often feel hindered by their own unfamiliarity with research, but as someone who spent most of medical school not doing research, I strongly encourage others to dive in during their radiology training and see the great places it can take them. My research path led me through so many interesting clinical questions, taught me a great deal of useful life skills and established long-lasting relationships with career mentors.”*

*— Vinay Prabhu, MD, MS*



**Rafik Ben Abda, DO**

Madigan Army Medical Center

**Matthew S. Abell, MD**

Southern Illinois University

**Sahaja Acharya, MD**

Washington University School of Medicine

**Benjamin Teichman Addicott, MD, MS**

Oregon Health & Science University

**Sameer Ahmed, MD**

Johns Hopkins Medicine

**Mani Akhtari, MD**

The University of Texas Medical  
Branch at Galveston

**Ashley Altman, MD**

University of Chicago

**Mark Amsbaugh, MD**

University of Louisville School of Medicine

**Keshav Anand, MD**

St. Joseph's Hospital and Medical Center

**Kevin F. Anton, MD, PhD**

Geisinger Medical Center

**Allen Ardestani, MD, PhD**

Cedars-Sinai Medical Center

**Amrita K. Arneja, MD**

New York Medical College at Westchester  
Medical Center

**Mireille P. Aujero, MD**

Christiana Care Health System

**Zain Badar, MD**

SUNY Upstate Medical University

**Ali Batouli, MD**

Allegheny General Hospital

**Manav Bhalla, MD**

Medical College of Wisconsin

**Peeyush Bhargava, MD, MS, MBA**

Louisiana State University Health-  
Shreveport

**Chandni Bhimani, DO**

Cooper University Hospital

**Derek M. Biederman, MD**

Icahn School of Medicine at Mount Sinai

**Alan Birney, MD**

Albany Medical Center

**Adam J. Blanchard, MD**

Tulane University School of Medicine

**Alec Block, MD**

Loyola University Medical Center

**Daniel J. Bourgeois III, MD, MPH**

University of California, Irvine

**Ryan J. Brandt, MD**

Dartmouth-Hitchcock Medical Center

**Daniel Bucklan, MD**

University Hospitals of Cleveland

**Lionel A. Bure, MD**

Montreal General Hospital  
McGill University

**David P. Burrowes, MD**

University of Calgary

**Joseph M. Caster, MD, PhD**

University of North Carolina at Chapel Hill

**Kuang-Wei Eric Chang, MD**

Baylor Scott & White Medical  
Center-Temple

**Ammar A. Chaudhry, MD**

Johns Hopkins Medicine

**Zeshan A. Chaudhry, MD**

SUNY Downstate Medical Center  
University Hospital of Brooklyn



**Anjali R. Cherukuri, MD**  
The University of Vermont Medical Center

**Anjeza Chukus, MD**  
Stanford University School of Medicine

**Zachary J. Clark, MD, MS (Posthumous)**  
University of Wisconsin School of  
Medicine and Public Health

**Clayton Commander, MD, PhD**  
University of North Carolina

**John Conklin, MD, MSc**  
University of Toronto

**Alexander Z. Copelan, MD**  
Beaumont Health System

**Patricia Coutinho de Souza, DVM, PhD**  
Beth Israel Deaconess Medical Center

**Brian Cristiano, MD**  
Loma Linda University Medical Center

**Michael Cummings, MD**  
Wilmot Cancer Center

**Andrew Dalton, MD**  
Memorial University of Newfoundland

**Hasan Danish, MD**  
Emory University

**Kathryn E. Darras, MD**  
University of British Columbia

**Vistasp Daruwalla, MD**  
Detroit Medical Center  
Wayne State University

**Kevin Day, MD**  
University of Arizona

**Joseph C. DeMarco, DO**  
Atlantic Health System Morristown Medical  
Center and Overlook Medical Center

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Rochester General Hospital

**Sean C. Dodson, MD**  
Indiana University School of Medicine

**Danielle Dressler, MD**  
Royal University Hospital,  
University of Saskatchewan

**Laura B. Eisenmenger, MD**  
University of Utah

**Robert Evans Heithaus, Jr., MD**  
Baylor University Medical Center at Dallas

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Boston University Medical Center

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Temple University Hospital

**Jonathan Frandsen, MD**  
University of Utah

**Tyler J. Fraum, MD**  
Mallinckrodt Institute of Radiology  
Washington University School of Medicine

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Vanderbilt University Medical Center

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Mayo Clinic

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Yale University School of Medicine

**Ami Gokli, MD**  
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Massachusetts General Hospital

**Ross Holwerda, MD**  
Saint Luke's Hospital  
University of Missouri-Kansas City

**Jason M. Hostetter, MD**  
University of Maryland Medical Center

**Hailey Hye In Choi, MD**  
MedStar Georgetown University Hospital

**Ichiro Ikuta, MD, MMSc**  
Yale-New Haven Hospital  
Yale New Haven Health System

**Derek Isrow, MD, PhD**  
Henry Ford Hospital

**William Jefferson Rieter, MD, PhD**  
Medical University of South Carolina





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The University of Texas MD Anderson  
Cancer Center

**Noah Kalman, MD**

Virginia Commonwealth  
University Health System

**Patrick Kennedy, MD**

McMaster University

**Augustus C. Key, DO**

University of Kentucky Medical Center

**Omid Khalilzadeh, MD, MPH**

Mount Sinai Beth Israel

**Christopher E. Kim, MD**

Albert Einstein Medical Center

**James M. Kingsbury II, MD**

West Virginia University School of Medicine

**Jared D. Kirkland, MD**

David Grant USAF Medical Center

**Amar U. Kishan, MD**

David Geffen School of Medicine at UCLA

**Jeffrey Koning, MD**

Boston Children's Hospital

**Yelena Kozirovsky, MD**

Jacobi Medical Center

**Alexander Lam, MD**

University of California, Irvine

**Karyn Ledbetter, MD**

Cincinnati Children's Hospital  
Medical Center

**Susan Lee, MD**

Hospital for Special Surgery

**Joseph Limback, MD**

Florida Hospital

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The University of Iowa Hospitals and Clinics

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Harbor-UCLA Medical Center

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Memorial Sloan Kettering Cancer Center

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University of Massachusetts Medical School

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Loma Linda University Medical Center

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Louisiana State University Health Sciences  
Center New Orleans

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Children's Hospital

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Brown Alpert Medical School

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Baylor College of Medicine

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University of Alabama at Birmingham

**Samir Mehta, MD**  
Pennsylvania Hospital

**Benjamin Mervak, MD**  
University of Michigan

**Hannah Milch, MD**  
Montefiore Medical Center

**Anthony Mohabir, MD**  
Hofstra Northwell School of Medicine

**Michael Morrow, DO**  
Baystate Medical Center

**Mitchel Muhleman, MD**  
Beaumont Health System

**Timothy Nguyen, MD**  
London Regional Cancer Program

**Arian M. Nikpour, MD, MPH**  
University of California  
Davis Health System

**Kamila Nowak Choi, MD**  
Thomas Jefferson University Hospital

**Jacob Ormsby, MD, MBA**  
University of Tennessee  
Methodist Healthcare

**Christopher Oustwani, MD**  
Northwestern University  
Feinberg School of Medicine

**Rohan Parab, MD**  
University of Alberta

**Henry Park, MD, MPH**  
Yale University School of Medicine

**Sasan Partovi, MD**  
University Hospitals  
Cleveland Medical Center

**Chirayu G. Patel, MD, MPH**  
Vanderbilt University Medical Center

**Ravi Patel, MD, PhD**  
University Hospitals Cleveland Medical  
Center-Case Western Reserve University

**John D. Pavlus, MD**  
Walter Reed National Military  
Medical Center

**Miriam Elaine Peckham, MD**  
University of Utah

**Artemis Petrides, MD, MS**  
PennState Health-Milton S. Hershey  
Medical Center

**Ali Pirasteh, MD**  
UT Southwestern Medical Center

**Kristin Plichta, MD, PhD**  
University of Iowa Hospitals & Clinics

**Erqi L. Pollom, MD**  
Stanford University School of Medicine

**Vinay Prabhu, MD, MS**  
New York University  
Langone Medical Center

**Srinivas Raman, MD**  
University of Toronto

**Saad Ranginwala, MD**  
University of Cincinnati Medical Center

**Sameer Rehman, MBBS, MBA**  
Hartford Hospital

**Jonathan Revels, DO**  
Eastern Virginia Medical School

**Ryan Rhome, MD, PhD**  
Icahn School of Medicine at Mount Sinai

**Samuel L. Rice, MD**  
Memorial Sloan Kettering Cancer Center

**Charlotte I. Rivers, MD**  
Roswell Park Cancer Institute

**Pavel Rodriguez, MD**  
University of Texas Health Science  
Center at San Antonio

**Aaron M. Rohr, MD**  
University of Kansas Hospital

**Brandon Roller, MD, PhD**  
Wake Forest School of Medicine

**Aleksandr Rozenberg, MD**  
Thomas Jefferson University Hospital

**David Ruiz, MD**  
Harlem Hospital Center

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**Fateme Salehi, MD**  
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Queen's University

**Ashley Sekhon, MD**  
The Ohio State University  
Wexner Medical Center

**Mark A. Sellmyer, MD, PhD**  
Hospital of the University of Pennsylvania

**Jay Shah, MD**  
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