

# SPARKING INNOVATION



FOUNDATION  
*Seeding the Future  
of Radiology*

## GRANTS & AWARDS

2023 RSNA R&E Foundation



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



*As donors to the R&E Foundation, you have provided the spark for current and future radiology research and education. Your donations continue to shed light on the opportunities and the advancement of our specialty. We are deeply grateful for your support and contributions.*

*Earlier this year, the R&E Foundation Board of Trustees approved \$4.7 million to fund our 2023 grant recipients. Individuals from 47 institutions will receive grant awards including essential protected time and support, demonstrating RSNA's ongoing dedication to advancing radiology's future. This booklet highlights our funded research and education projects.*

*Since 1984, the Foundation has awarded \$78 million in funding for over 1,800 grant projects. According to a survey of past grant recipients, for every \$1 the Foundation gives, investigators receive an average of \$60 in additional funding from other sources like the National Institutes of Health—this is a significant increase compared to past years. In all, our \$78 million investment has resulted in more than \$4.5 billion in funding for radiology research and education.*

*Your generous donations have supported innovation that continues to improve medical imaging education and research initiatives moving disease detection and management forward. Through the Foundation, grant recipients are continuously making great strides to advance radiology benefiting countless patients and blazing a trail for future generations. Your incredible generosity is helping make the next steps in radiology's evolution possible.*

*Thank you, as always, for investing in our Foundation and the future of radiology. Today's research is tomorrow's practice. We hope we will continue to work together for the future of our field. Thank you so much, again, for your generous contribution and support for the RSNA R&E Foundation.*

A handwritten signature in black ink, appearing to read "Satoshi Minoshima". The signature is fluid and cursive.

Satoshi Minoshima, MD, PhD  
Chair, Board of Trustees  
RSNA R&E Foundation

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# GRANT AND AWARD DESCRIPTIONS

## RESEARCH SCHOLAR GRANT

The Foundation's premier career development grant is designed to transition junior faculty to independent investigators. Funding protects research time to conduct complex projects under the guidance of a mentor and scientific advisor.

## RESEARCH SEED GRANT

Every great discovery starts with a spark. This grant provides seed money to test hypotheses and conduct pilot studies to prepare major grant applications to corporations, foundations and government agencies.

## RESEARCH RESIDENT/FELLOW GRANT

This grant provides investigators a chance to explore powerful ideas, gain insight into specific investigations and practice research methods and techniques.

## RESEARCH MEDICAL STUDENT GRANT

Exposure to radiology in medical schools ignites a passion and encourages students to consider academic radiology as an option for their future. A summer project can turn into a career-long pursuit of research and discovery.

## DEREK HARWOOD-NASH INTERNATIONAL EDUCATION SCHOLAR GRANT

This grant funds investigators looking to affect radiology education around the world. All projects are eligible for funding as long as they are on an international scale.

## RSNA/AUR/APDR/SCARD RADIOLOGY EDUCATION RESEARCH DEVELOPMENT GRANT

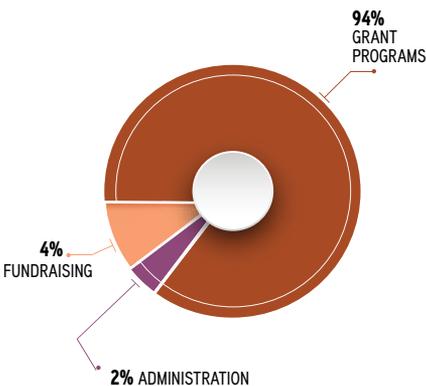
This grant helps to build a critical mass of radiology education researchers and promotes the careers of those with passion to advance the science of radiology around the world.

## EMERGING ISSUE GRANT

The Foundation is invested in ensuring that the current and next generation of radiologists are able to meet the needs of the continuously evolving profession and help achieve equitable care for all. The Emerging Issues grant was developed to rapidly and effectively address urgent issues that threaten the health and well-being of disparate populations.

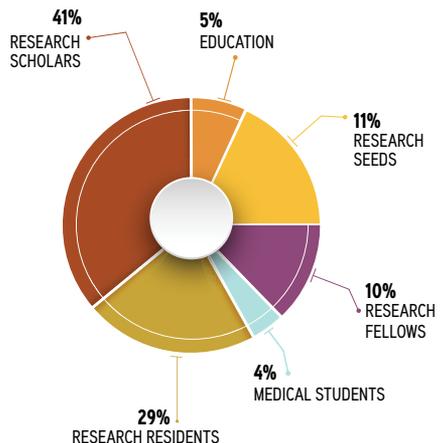
### WHERE DO YOUR DONATIONS GO?

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



### HOW ARE GRANT DOLLARS DISTRIBUTED?

*Percent of grant dollars awarded by grant type in 2021*



# 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**

**Joan Eliasoph Charitable Remainder Annuity Trust**

**Martin R. Prince, MD, PhD**

**Ralph Schlaeger Charitable Foundation**

**RSNA Presidents Circle**

**Strategic Radiology**

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



# RESEARCH SCHOLAR GRANT



*"It's my great honor to receive the prestigious AGFA HealthCare/RSNA Research Scholar Grant. This grant allows me to start a multidisciplinary and multicentered research project on hepatocellular carcinoma. It also provides me with valuable support, resources, and network necessary for an early career clinician-investigator. I am truly grateful for this opportunity."*

*– Xiaoyang Liu, MD, PhD*



**SHARATH BHAGAVATULA, MD**

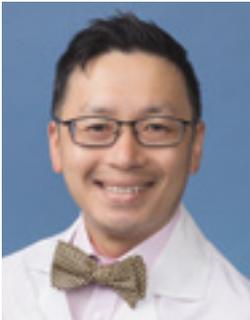
*Brigham and Women's Hospital*

Development of Superparamagnetic Iron-Oxide Nanoparticle (SPIO-NP)-Enhanced Microwave Ablation

*GE HealthCare/RSNA Research Scholar Grant*



GE HealthCare



**JASON CHIANG, MD, PHD**

*University of California, Los Angeles*

Augmenting Microwave Ablation With Supercharged NK Cell Therapy in an Oncopig Liver Tumor Model

*RSNA Research Scholar Grant*



**ELIZABETH GEORGE, MBBS**

*University of California, San Francisco*

Quantitative Susceptibility Mapping of Neonatal Cerebral Oxygenation to Predict Neurodevelopmental Outcomes in Congenital Heart Disease

*RSNA Research Scholar Grant*

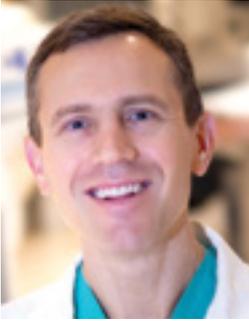


**AMIT GUPTA, MD**

*University Hospitals Cleveland Medical Center*

Lung T1 Mapping and Non-Contrast MR Angiography: A Noninvasive Method for Assessment of Pulmonary Vasculature and Perfusion Abnormalities in Patients With Chronic Thromboembolic Pulmonary Hypertension

*RSNA Research Scholar Grant*



**ROGER GOLDMAN, MD, PHD**

*University of California, Davis*

Artificial Intelligence for Interpretation and Localization in Digital Subtraction Angiography

*RSNA Research Scholar Grant*



**LEWIS DIRK HAHN, MD**

*University of California, San Diego*

Deep Learning-Based Prediction of Chronic Thromboembolic Pulmonary Hypertension

*Carestream Health/RSNA Research Scholar Grant*

**Carestream**



**LESLIE R. LAMB, MD, MSC**

*Massachusetts General Hospital*

Strategy to Reduce Disparities in Breast Cancer Risk Assessment Using Artificial Intelligence

*Siemens Healthineers/RSNA Research Scholar Grant*

**SIEMENS  
Healthineers**



**YOO JIN LEE, MD**

*University of California, San Francisco*

Imaging of Active Myocardial Fibrosis Using 68 Ga-FAP-2286

*Bracco Diagnostics Inc./  
RSNA Research Scholar Grant*





### **XIAOYANG LIU, MD, PHD**

*University of Toronto*

Multimodal Integration of Radiology,  
Genomics and Pathology for Recurrence  
Prediction in Hepatocellular Carcinomas  
After Curative Resection

*AGFA HealthCare/  
RSNA Research Scholar Grant*

**AGFA**   
HealthCare



### **KIRTI MAGUDIA, MD, PHD**

*Duke University*

Optimizing Preoperative Assessment and  
Postoperative Management of Bariatric  
Surgery Patients With Fully Automated, High  
Throughput and Normalized Ct-Based Body  
Composition Analysis

*Joan Eliasoph, MD/  
RSNA Research Scholar Grant*



### **DEVARATI MITRA, MD, PHD**

*The University of Texas MD Anderson*

Prediction of Radiation Therapy-Associated  
Toxicity to Correct a Race-Based Disparity

*RSNA Research Scholar Grant*



### **MARWAN MOUSSA, MD**

*Beth Israel Deaconess Medical Center*

Combinational Thermal Ablation and  
Nanodrug Immunomodulation To Promote  
Anti-Tumor Immunity

*RSNA Research Scholar Grant*



**ALI PIRASTEH, MD**

*University of Wisconsin-Madison*

Development of FAPI PET as a Non-invasive Biomarker of Liver Fibrogenesis

*RSNA Research Scholar Grant*



**LIQIANG REN, PHD, DABR**

*The University of Texas Southwestern Medical Center*

Early Detection of Pancreatic Ductal Adenocarcinoma with Clinical Photon-Counting Computed Tomography

*RSNA Research Scholar Grant*



**AMANDA R. SMOLOCK, MD, PHD**

*The Medical College of Wisconsin*

Understanding the Effect of Histotripsy on Tumor Hypoxia in a Pancreatic Cancer Model

*RSNA Research Scholar Grant*



**MARYAM SOLTANOLKOTABI, MD**

*University of Utah*

Quantitative Bone SPECT/CT and Its Role in Osteoarthritis Imaging & Management: A Pilot Study on the Hand & Wrist

*RSNA Research Scholar Grant*



**KARTHIK M. SUNDARAM, MD, PHD**

*University of Pennsylvania*

Developing an Image-Guided Approach for Optimal Surgical Debulking and Treatment of Recurrent Ovarian Cancer Using a Novel Theranostic Agent

*GE HealthCare/RSNA Research Scholar Grant*



GE HealthCare





**SCOTT M. THOMPSON, MD, PHD**

*Mayo Clinic Rochester, Minnesota*

Intraindividual Comparison of Hepatic Intraarterial Versus Systemic Intravenous <sup>68</sup>Ga-PSMA PET/CT in Patients With HCC

*RSNA Research Scholar Grant*



**ANGELA TONG, MD**

*NYU Grossman School of Medicine*

Added Value of Quantitative MR Imaging to Radiologists and Deep Learning Based Computer Aided Detection of Prostate Cancer on Prostate MRI

*RSNA Research Scholar Grant*



**CHRISTIAN B. VAN DER POL, MD, FRCPC**

*Hamilton Health Sciences*

Liver Imaging Reporting and Data System (LI-RADS) Diagnostic Test Accuracy Individual Patient Data (IPD) Meta-Analysis

*RSNA Research Scholar Grant*



**MICHAEL C. VERONESI, MD, PHD**

*University of Wisconsin - Madison*

Development of Neuroimaging Biomarkers Using Simultaneous FET PET and MR CEST for Combination Therapy Against Glioblastoma

*RSNA Research Scholar Grant*



**VIVEK SRIKAR YEDAVALLI, MD, MS**

*Johns Hopkins School of Medicine*

Deep Learning Models Using Baseline Comprehensive CT Stroke Collateral Imaging in Cerebral Angiographic Collateral, Post Procedural Hemorrhagic Transformation, and Clinical Outcomes Predictions for Increasing Endovascular Thrombectomy Eligibility in the Late Time Window

*Guerbet/RSNA Research Scholar Grant*



# RESEARCH SEED GRANTS



*“The outcome of my project offers innovative approaches to integrate AI into patient management decisions and ultimately has the potential to personalize treatment choices in patients with intraductal papillary mucinous neoplasm of the pancreas. I feel very lucky to have the great visionaries Dr. Mike Gee and Dr. Dania Daye as my mentors and I am so appreciative of RSNA for their support throughout my academic career.”*

*– Azadeh Tabari, MD*



### **MICHAEL DOHOPOLSKI, MD**

*The University of Texas Southwestern Medical Center*

Identifying Residual or Recurrent Local Disease on Post-Treatment PET Imaging in Patients With Head and Neck Cancer Using Reliable and Explainable Deep Learning Models

*RSNA Research Seed Grant*



### **NATALLY HORVAT, MD, PHD**

*Memorial Sloan Kettering Cancer Center*

Establishing Robust Ground-Truth Labels To Create Machine-Learning Response-Assessment Models Using an Innovative Fusion Technique of Rectal MRI and Whole-Mount Histopathologic Specimens

*Bayer HealthCare/RSNA Research Seed Grant*



### **AZADEH TABARI, MD**

*Massachusetts General Hospital*

Machine Learning Based Radiomics to Predict Highgrade Intraductal Papillary Mucinous Neoplasm(IPMN) of the Pancreas

*RSNA Research Seed Grant*



### **PAUL HYUNSOO YI, MD**

*University of Maryland*

Assessing the Trustworthiness of Vision Transformer Attention Saliency Maps For Localizing Abnormalities in Medical Imaging

*Joan Eliasoph, MD/RSNA Research Seed Grant*

# RESEARCH RESIDENT/FELLOW GRANT



*"I want to express my heartfelt appreciation to Canon Medical Systems USA, Inc. and R&E Foundation donors for the invaluable support of my research. The objective of my research is to enhance AI-guided precision medicine approaches and ultimately improve the care and outcomes of patients diagnosed with cancer."*

*– Laurent Derclé, MD, PhD*



## **MAXIME BOUTHILLIER, MD**

*University of Montreal*

MRI Biomarkers in Spinal Cord Injury:  
End-to-End Analysis Pipeline for Traumatic  
Spinal Cord Injury Research

*RSNA Presidents Circle Research Resident Grant*



## **JOHN MICHAEL BRYANT, MD**

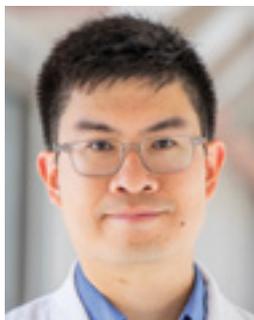
*Moffitt Cancer Center*

In Vivo Magnetolectric Nanoparticles as a Tumor-  
Targeting Contrast Agent for T2 Magnetic Resonance  
Imaging in a Murine Pancreatic Ductal  
Adenocarcinoma Flank Tumor Model

*FUJIFILM Healthcare Americas Corporation/  
RSNA Research Resident Grant*

**FUJIFILM**

Value from Innovation



## **ANDREW CHANG, MD, PHD**

*Washington University in St. Louis*

Interrogation of Glioblastoma Fatty Acid  
Metabolism With Deuterium Metabolic Imaging

*Philips/RSNA Research Resident Grant*

**PHILIPS**



## **TAFADZWA LAWRENCE CHAUNZWA, MD, MHS, BSE**

*Brigham and Women's Hospital*

Comprehensive AI-Driven Radiological  
Assessment for Non-Small Cell Lung Cancer  
Immunotherapy Prognostication

*RSNA Research Resident Grant*



**FLORENCE L. CHIANG, MD, PHD**

*Massachusetts General Hospital*

Uncovering the Microstructural Substrate of Functional Changes Associated With Localized Gray Matter Atrophy in Multiple Sclerosis Using Ultra-High Gradient Diffusion MRI

*Ralph Schlaeger Charitable Foundation/  
RSNA Research Fellow Grant*



**LAURENT DERCLE, MD, PHD**

*Columbia University*

Prospective Deployment of Artificial Intelligence Software Using Standard-of-Care CT Scans To Predict the Efficacy of Cancer Treatments

*Canon Medical Systems USA, Inc./  
RSNA Research Resident Grant*



**LeMOYNE HABIMANA-GRIFFIN, MD, PHD**

*Washington University in St. Louis*

Engineering Probiotic Yeast for Theranostic Applications in Radiation Enteritis

*RSNA Research Resident Grant*

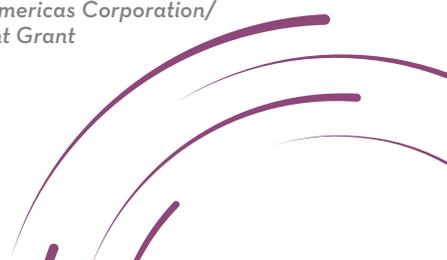


**AUSTIN HOPPER, MD**

*University of California, San Diego*

Prefrontal Cortical Atrophy After Brain Radiation as a Biomarker of Neurocognitive Change: Implications for Cognitive Preservation

*FUJIFILM Healthcare Americas Corporation/  
RSNA Research Resident Grant*





**MELINA HOSSEINY, MD**

*University of California, San Diego*

**A Deep Learning-Based Artificial Intelligence Tool for LI-RADS Categorization on Liver MRI**

*Canon Medical Systems USA, Inc./  
RSNA Research Resident Grant*



**CHARISSA KIM, MD, PHD**

*Beth Israel Deaconess Medical Center*

**Investigating the Longitudinal Evolution of Lymphedema with Ultra-High Frequency Ultrasound and Radiomics**

*RSNA Research Resident Grant*



**ZOFIA MARIA LASIECKA, MD,PHD**

*Emory University*

**Task-Based fMRI in Prediction of Memory Outcome After Stereotactic Laser Ablation for Epilepsy**

*FUJIFILM Healthcare Americas Corporation/  
RSNA Research Resident Grant*



**HWAN LEE, MD**

*University of Pennsylvania*

**A Platform for Measuring the Effects of Targeted Alpha Therapy Based on Subcellular Localization**

*GE HealthCare/RSNA Research Resident Grant*





### **HANZHOU LI, MD**

*Emory University*

Patient-Centered, AI-Synthesized Video  
Explanation of Radiology Reports  
Generated with NLP

*GE HealthCare/RSNA Research Resident Grant*



GE HealthCare



### **CHRISTOPHER MALLORY, MD, MHA, MS**

*University of Utah*

Assessment of Repeat Short Interval  
Cross-Sectional Imaging in Cancer Patients

*Philips/RSNA Research Resident Grant*

**PHILIPS**



### **CLIVE MUSONZA, MD, PHD**

*The University of Texas Southwestern Medical Center*

PET/MR for Characterization of Renal Masses (RMs)

*Bracco Diagnostics Inc./RSNA Research Resident Grant*



### **HOSSEIN NEJADNIK, MD, PHD**

*University of Pennsylvania*

Development of a Clinically Translatable MRI  
Traceable mRNA Derived CAR T Cells Approach  
for Diffuse Midline Glioma (DMG) Immunotherapy

*Prince/RSNA Research Resident Grant*



## **HYUNSOO JOSHUA NO, MD, CMD**

*Stanford University*

Development of Personalized Cardiac Risk Reduction Strategies in Thoracic Radiotherapy

*Phillips/RSNA Research Resident Grant*

# **PHILIPS**



## **CARLOS B. ORTIZ, MD**

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

Impact of Hepatic Tissue Type on Microwave Ablation Dimensions and Dielectric Properties Utilizing a Novel Ex Vivo Human Liver Perfusion System

*Phillips/RSNA Research Resident Grant*

# **PHILIPS**



## **R. BLAKE ROSS, MD**

*University of Colorado Anschutz*

PPAR Modulation in Combination With Radioimmunotherapy in Animal Models of Head and Neck Cancer

*RSNA Research Resident Grant*



## **VEIT SANDFORT, MD**

*Stanford University*

Dynamic CT Evaluation of Proximal Aortic Distensibility in Stanford Type B Aortic Dissection

*Siemens Healthineers/  
RSNA Research Fellow Grant*

# **SIEMENS Healthineers**



**BENJAMIN SCHRANK, MD, PHD**

*The University of Texas MD Anderson  
Cancer Center*

Listeriolysin O Enhances Radiation Responses  
to Phagocytosis Checkpoint Blockade

*RSNA Research Resident Grant*



**PALLAVI SRIVASTAVA, MBBS, MPH**

*The University of Texas Southwestern Medical Center*

Probing the Functional and Microstructural  
Correlates of Preclinical and Prodromal Dementia:  
A Population-Based Study Using MEG and NODDI

*Austin Radiological Association/  
RSNA Research Resident Grant*



**KAILIN YANG, MD, PHD**

*Cleveland Clinic*

Targeting m<sup>6</sup>A RNA Methylation to  
Radiosensitize Glioblastoma Stem Cells

*RSNA Research Fellow Grant*



**WENHUI ZHOU, MD, PHD**

*Stanford University*

Prediction of Occult Invasive Breast Cancer in  
Women with Ductal Carcinoma In Situ Using  
Multitask Deep Learning

*Strategic Radiology/RSNA Research Resident Grant*



# RESEARCH MEDICAL STUDENT GRANT

*“With growing interest in emergency medicine and brain imaging, this project utilizing multiparametric techniques and examining different populations and conditions gave me the opportunity to approach the field from a research perspective and broaden my knowledge. Not only was I encouraged to pursue my own research interest, but I also received valuable mentorship and guidance at each step of the way. I am grateful for the support of my mentors Nelly Joseph-Mathurin, PhD and Tammie Benzinger, MD, PhD, and for the experience.”*

*– Junie Saint Clair, BS, MDiv*





**PRATHEEK BOBBA, BS**

*Yale University*

The Impact of Postnatal Growth on Brain White Matter Microstructure in Very Preterm Infants

*RSNA Research Medical Student Grant*



**ABIGAIL E. CORKUM**

*University of Maryland*

CT-Based Computer Aided Detection (CAD) Tools for Traumatic Torso Hemorrhage: Assessing Performance Bias and Hidden Stratification

*RSNA Research Medical Student Grant*



**ALANKRIT SHATADAL**

*University of Wisconsin-Madison*

A Picture Is Worth a Thousand Words: Correlating Description of Calcifications on Non-Contrast Head CT with Final Diagnosis

*RSNA Research Medical Student Grant*



**CLAIRE HERMISTON**

*Dalhousie University*

A Retrospective Cohort Study Comparing Simple Internal Jugular Tunneled Central Venous Catheter Exchange to SVC Fibrin Sheath or Stenosis Angioplasty in Conjunction with Central Venous Catheter Exchange in Chronic Dialysis Patients

*RSNA Research Medical Student Grant*



**JADA HISLOP, BS**

*Emory University*

Improving Communication of Screening Mammogram Results to Patient

*RSNA Research Medical Student Grant*



**SAJID HOSSAIN, BS, MS**

*Yale University*

Deep Learning on Prostate Cancer MRI for Non-invasive Risk Stratification and Prognostication

*FUJIFILM Healthcare Americas Corporation/  
RSNA Research Medical Student Grant*

**FUJIFILM**  
Value from Innovation



**ALI IBRAHIM, MS**

*Meharry Medical College*

A Multi-Institutional Study Using 3D Printed Models to Improve Medical Personnel Procedural Skill Training and Teaching

*RSNA Research Medical Student Grant*



**MALIHA IMAMI, BSC, MENG**

*University of Toronto*

Development of a Fully-Automated Deep Learning Model for Segmentation and Treatment Response Assessment of Lesions on PET and CT Imaging of Patients With Prostate Cancer

*RSNA Research Medical Student Grant*



**DANIEL KARGILIS, BA**

*Johns Hopkins University*

Automatic Segmentation and Classification  
of Lymph Nodes for Oncological Management

*RSNA Research Medical Student Grant*



**SIMON KIDANEMARIAM, BS**

*Brigham and Women's Hospital*

Community-Level Patient Factors  
Associated with Fulfillment of  
Radiologist Follow-Up Recommendations  
in Massachusetts

*RSNA Research Medical Student Grant*



**LYNN LENG, BS**

*University of California, San Francisco*

A Randomized, Controlled Trial of Rapid  
Rollover Maneuver in Reducing Pneumothorax  
After Percutaneous CT-Guided Lung Biopsy:  
An Interim Analysis

*RSNA Research Medical Student Grant*



**JENNIFER MATSUI, PHD**

*The Ohio State University*

Pediatric, Adolescent, and Young Adult Patients  
With WHO Grade 4 Gliomas: A Multi-Institutional  
Study Evaluating Outcomes and Patterns of Failure

*RSNA Research Medical Student Grant*



**DARRIAN MCAFEE, BA**

*University of Maryland*

MR Spectroscopy of Hyperpolarized [1-13C] Pyruvate as a Novel Imaging Tool for Epilepsy  
*RSNA Research Medical Student Grant*



**STEVEN PAN, BSC**

*Weill Cornell Medicine*

Evaluation of Prostate Specific Membrane Antigen (PSMA) as a Radionuclide Therapy Target in Glioblastoma Multiforme (GBM)  
*RSNA Research Medical Student Grant*



**SUNGMEE PARK**

*University of California, Irvine*

The Impetus for Diversity and Inclusion in Radiology and a Taskforce to Initiate Change  
*RSNA Research Medical Student Grant*



**CASEY PATON, MA**

*University of Rochester*

Improving Detection of Brain Metastases on MRI with a Tensorflow Based Deep Learning Algorithm  
*RSNA Research Medical Student Grant*



**JOSEPH RICH, BS**

*University of Southern California*

Deep Learning Image Segmentation of Prostate Cancer Bone Metastases

*RSNA Research Medical Student Grant*



**JUNIE SAINT CLAIR, BS, MDIV**

*Meharry Medical College*

Examining the Predictive Value of Synaptic Dysfunction and Neuronal Injury Measures on Imaging Markers of Disease Presentation and Progression in Alzheimer's Disease

*RSNA Research Medical Student Grant*



**SAMANTHA SANTOMARTINO, BA**

*University of Maryland*

Improving the Fairness of Deep Learning Models For Pediatric Bone Age Prediction Using Attention-Based Neural Networks

*RSNA Research Medical Student Grant*



**ABHINAV SURI, BA**

*University of California, Los Angeles*

DeepFRAX: A Novel Deep Learning Based Predictor of Future Hip and Major Osteoporotic Fracture Risk

*RSNA Research Medical Student Grant*



### **FELICIA TANG**

*University of California, San Francisco*

Quantitative and Qualitative Correlation of 0.55T MRI to CT for Normal Anatomic Structures and Common Pulmonary Pathologies

*Philips/RSNA Research Medical Student Grant*

## **PHILIPS**



### **SAMUEL VYDRO, BS**

*University of California, San Francisco*

Development and Implementation of a 3D-Printed Pulmonary Artery Model for Vascular and Interventional Radiology Simulation Training

*RSNA Research Medical Student Grant*



### **LUCIA WEST**

*University of California, San Francisco*

Fractional Anisotropy as a Predictor of Deep Brain Stimulation Efficacy in Patients with Long-Standing Parkinson's Disease

*RSNA Research Medical Student Grant*



### **ANTHONY TAOLUN WU, BS**

*University of California, Irvine*

A Deep-Learning NLP for Automated Radiology-Pathology Correlation

*RSNA Research Medical Student Grant*



### **HOSSAM ZAKI, BS**

*Rhode Island Hospital*

Liver Tumor Segmentation For Real Time Data During Image-Guided Thermal Ablation Treatment

*RSNA Research Medical Student Grant*



**HELEN ZHANG, BS**

*Rhode Island Hospital*

Ablation Zone Estimation and Deep Reinforcement Learning for Intraoperative Guidance of Lung Image-Guided Thermal Ablation Treatment

*RSNA Research Medical Student Grant*



**ALEXANDER ZHOU, MS**

*Icahn School of Medicine at Mount Sinai*

Simulating Cardiac PET-MRI of Cardiac Sarcoidosis with Deep Learning

*RSNA Research Medical Student Grant*

# EDUCATION GRANTS

*“Climate change is the greatest threat to global health of the 21st century, and as a core component of health care, radiology will undoubtedly be significantly impacted. It is critical to prepare radiologists for the challenges they will face and the adaptations they will need to make.*

*I am grateful for the RSNA Education Project Award, which will help my team develop and implement a novel curriculum for our radiology trainees focused on the interplay between radiology, sustainability and climate change. This is an amazing opportunity to raise awareness among our future radiologists of the challenges they will face and the importance of utilizing more sustainable practices.”*

*– Preeti Arun Sukerkar, MD, PhD*



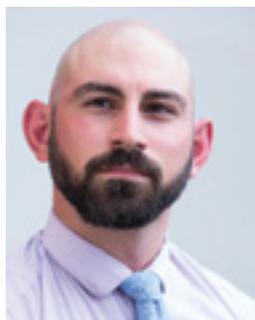


### **CHRISTIAN J. GOMEZ, MD**

*Emory University*

**Virtual Reality Simulation and Image Guided Procedures: Looking Towards the Future of Procedural Training**

*RSNA Education Project Award*



### **MASIS ISIKBAY, MD**

*University of California, San Francisco*

**International Expansion of the Newly Created Online Diagnostic Radiology Call Preparation Curriculum**

*Derek Harwood-Nash International Education Scholar Grant*



### **PREETI ARUN SUKERKAR, MD, PHD**

*VA Palo Alto Health Care System*

**Radiology, Sustainability, and Climate Change: A Novel Pilot Curriculum for Radiology Residents**

*RSNA Education Project Award*

# EMERGING ISSUES GRANTS

*“This transformational grant has allowed my team to test interventions in collaboration with community partners that utilize high-quality population level data to increase adherence to lung cancer screening. Performing a community-engaged pragmatic clinical trial is not something many radiologists get to do so the opportunity afforded through this RSNA grant is highly appreciated. Strategic funding such as this is critical for reducing health disparities and generating preliminary data that can lead to larger funding.”*

*– Farouk Dako, MD, PhD*



*Pastor Terrilynn Donnell (Consultant), Nadira Gray (Community Support Representative and Research Coordinator), Farouk Dako, MD, PhD (Principal Investigator)*



**ULAS BAGCI, PHD**

*Northwestern University*

PASC Pulmonary Fibrosis Prediction with Deep Learning and Multimodal Data

*RSNA Emerging Issues – Long-term Effects of COVID-19*



**FAROUK DAKO, MD, PHD**

*University of Pennsylvania*

Community Support Program for Lung Cancer Screening

*RSNA Emerging Issues – Interventions/Solutions to Health Care Disparities*



**JUDY GICHOYA, MD**

*Emory University*

Debiasing Image-Based AI Models for Population Health

*RSNA Emerging Issues – Interventions/Solutions to Health Care Disparities*



**SOTERIOS GYFTOPOULOS, MD, MBA, MSC**

*NYU Langone Health*

Understanding and Improving Osteoporosis Screening in U.S. Asian Populations: A Mixed Method Analysis Based Education Initiative

*RSNA Emerging Issues – Interventions/Solutions to Health Care Disparities*





### **DANIEL KIM, PHD**

*Northwestern University*

Discovery of Racial Disparities in Coronary Microvascular Dysfunction in Long COVID Patients using Rapid Quantitative Cardiovascular MRI  
*RSNA Emerging Issues – Long-term Effects of COVID-19*



### **CHRISTINA LEBEDIS, MD**

*Boston University Medical Center*

Addressing Disparities in Hepatocellular Carcinoma (HCC) Surveillance Using Implementation Strategies  
*RSNA Emerging Issues– Interventions/Solutions to Health Care Disparities*



### **LICIA LUNA, MD, PHD**

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Use of <sup>11</sup>C-CPPC PET for Imaging the Macrophage Colony-Stimulating Factor 1 Receptor (CSF1R) in Patients With Long COVID

*RSNA Emerging Issues – Long-term Effects of COVID-19*



### **MAHMUD MOSSA-BASHA, MD**

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Imaging and Plasma Markers, and Cognitive Profile of Post-Acute Sequela of COVID-19, and Association With Vascular Dementia

*RSNA Emerging Issues – Long-term Effects of COVID-19*



**BHAVIKA K. PATEL, MD**

*Mayo Clinic Arizona*

Sustainability of a Pilot Ride Share Intervention:  
Creating a Plan To Enable Large-Scale Inclusive  
Patient Access to Preventative Screening

*RSNA Emerging Issues – Interventions/Solutions  
to Health Care Disparities*



**BRENT D. WEINBERG, MD, PHD**

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Metabolic Imaging of Neurological Long  
Covid Patients

*RSNA Emerging Issues – Long-term Effects  
of COVID-19*

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*“After my second year of residency, I made a personal publication goal, starting with a QI poster on the sonographic Murphy sign in the setting of opioid analgesic administration. I was able to attend the RSNA annual meeting and seven conferences over the next two years (virtually and in person), with multiple case reports and case series, and an educational theory piece. This award was the highlight of following through on my original goal.”*

– Elianna Goldstein, MD



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