

*2022 RSNA R&E Foundation*  
**GRANTS AND AWARDS**

**SPARKING  
INNOVATION**



**FOUNDATION**

*Seeding the Future of Radiology*

*First, let me start by saying thank you.*

*The challenges of the last few years have been daunting. When faced with adversity, we have remained steadfast in our commitment to the future of radiology and continued to move forward. Much like developing film, once it is in the solution, the outline of the image is there, but it takes patience to see how the details will emerge. While we see the outline of radiology's future, it takes the right solution, planning and determination to focus on how our specialty will develop.*

*Investing in the future of radiology by developing investigators and supporting lifelong innovative research and education are the cornerstones of the RSNA R&E Foundation's mission. The generosity of our donors allows us to make this investment. In 2022, our Board of Trustees approved more than \$4 million in grant funding support for 91 individuals across 46 institutions, who are at all stages of their careers. We are proud to lead the specialty in funding radiology's future. Learn about our funded research and education projects in this booklet.*

*Since the R&E Foundation's inception in 1984, we have awarded \$70 million in funding for over 1,600 grant projects, and that is just the beginning. According to our survey, for every \$1 the Foundation gives, investigators receive a minimum of \$50 in additional funding from other sources, like the National Institutes of Health. In all, our \$70 million has resulted in over \$3 billion in funding for radiology research and education.*

*Your donation makes a lasting impact on the future of our field and inspires the promising researchers and educators we fund. Supporting the R&E Foundation means supporting the advancement of the radiologic sciences—94% of every dollar you donate goes directly toward research and education that improves patient care. Our grant recipients have discovered some of today's most innovative procedures that have directly benefitted countless patients.*

*In 2023 with your support, we will continue to advance the field through research grants that help investigators secure further research funding. And, we will continue to provide education grants that help radiology educators create new ways of teaching, assessing and promoting the next generation of radiology leaders. Your incredible generosity allows us to focus on a future of groundbreaking discoveries and innovation.*

*We look forward to your continued support and thank you, as always, for investing in our Foundation.*

Sincerely,



Vijay M. Rao, 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](https://www.rsna.org/Grant_Search)



# TABLE OF CONTENTS

Grant and Award Descriptions . . . . . 2

Recognition and Thanks . . . . . 3

## Research Grants

Research Scholar Grant . . . . . 4

Research Seed Grant . . . . . 8

Research Resident/Fellow Grant . . . . . 11

Research Medical Student Grant . . . . . 20

## Education Grants

RSNA, AUR, APDR, SCARD Radiology Education  
Research Development Grant . . . . . 28

Derek Harwood-Nash International Education  
Scholar Grant . . . . . 28

Education Scholar Grant . . . . . 28

Education Project Award . . . . . 30

Roentgen Resident/Fellow Research Award . . . . . 32

# 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

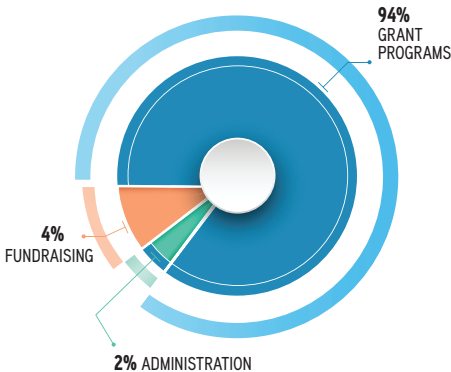
This grant helps to build a critical mass of radiology education researchers and promotes the careers of those with passion to advance the science of radiology around the world.

## EDUCATION PROJECT AWARD

This project award is intended to recognize and highlight the impact of educators by providing supplemental funding for new or ongoing education projects.

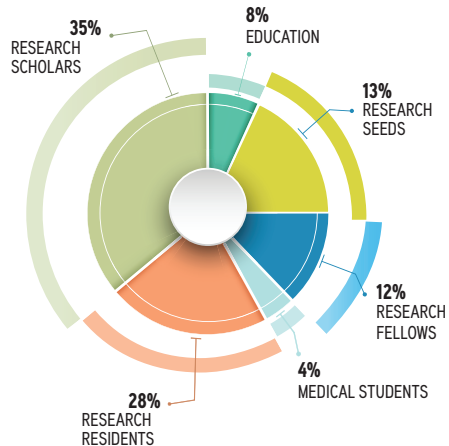
## Where Do Your Donations Go?

*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.

Derek Harwood-Nash, MD  
Joan Eliasoph Charitable Remainder Annuity Trust  
Marten F. Klop  
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.



# RESEARCH SCHOLAR GRANT



*Christian B. Van Der Pol*

*"I am extremely grateful to the RSNA R&E Foundation for providing me with invaluable support and recognition to pursue individual patient data meta-analyses on the Liver Imaging Reporting and Data System (LI-RADS). This award has facilitated our team's efforts to pool, harmonize and analyze data from a broad-based international cohort of patients at risk for liver cancer with the aim of advancing the science of liver imaging. Along with my Scientific Advisor for this project, Matthew McInnes, MD, I look forward to sharing the results of our work which we hope will improve our understanding of liver imaging and ultimately lead to improved patient outcomes."*



**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



**LEWIS HAHN, MD**

*University of California, San Diego*

Deep Learning-Based Prediction of Chronic Thromboembolic Pulmonary Hypertension

Carestream Health/RSNA Research Scholar Grant

**Carestream**



**LESLIE 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 <sup>68</sup>Ga-FAP-2286

Bracco Diagnostics Inc./RSNA Research Scholar Grant



LIFE FROM INSIDE



**KIRTI MAGUDIA, MD, PHD**

*Duke University School of Medicine*

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**

*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



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

*The Medical College of Wisconsin, Inc*

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





**SCOTT M THOMPSON, MD, PHD**

*Mayo Clinic Rochester*

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**

*New York University 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 VERONESI, MD, PHD**

*Indiana University*

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

RSNA Research Scholar Grant



**VIVEK 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 GRANT



*Jessica Porembka, MD*

*“The Cannon Medical Systems USA, Inc./RSNA Research Seed Grant has given me the opportunity to delve into patient-centered research to further understand an individual’s experience participating in lung cancer screening. Ultimately, the goal of this research is to reduce lung cancer mortality through identifying actionable interventions that both decrease the negative impact associated with screening and reduce health disparities associated with screening. I am so grateful for this experience and for the support of my mentor, Ruth Carlos, MD.”*



**ERIN F. ALAIA, MD**

*New York University Grossman School of Medicine*

Clinical Utility of Knee and Hip MRI for Atraumatic Pain in Patients Aged 50 and Older: A Comparative-Effectiveness Based Analysis

FUJIFILM Healthcare Americas Corporation/  
RSNA Research Seed Grant



**SCOTT BUGENHAGEN, MD, PHD**

*Mallinckrodt Institute of Radiology*

Absolute Perfusion Reserve: Theory and Measurement of a New Metric for Coronary Lesion Grading

Philips/RSNA Research Seed Grant



**ADAM FANG, MD, DABR, RPVI**

*University of Maryland School of Medicine*

Development and Integration of an Inferior Vena Cava Filter Alert System Using a Novel Natural Language Processing Tool To Identify Eligible Patients for Filter Retrieval

Joan Eliasoph, MD/RSNA Research Seed Grant



**PETER GOFF, MD, PHD**

*University of Washington*

Inhibiting the Replication Checkpoint To Augment the Immunogenicity of Radiotherapy

RSNA Research Seed Grant



**PANKAJ GUPTA, MD**

*Postgraduate Institute of Medical Education and Research, Chandigarh*

Deep Learning Radiogenomics for Individualized Therapy in Unresectable Gallbladder Cancer  
RSNA Research Seed Grant



**JORGE DANIEL OLDAN, MD**

*University of North Carolina - Chapel Hill*

18-Fluorofuranylprogesterone (FFNP) PET/CT as a Potential Biomarker of Response to Progesterone Therapy in Complex Atypical Hyperplasia (CAH) and Grade 1 Endometrial Cancer (EC)

Canon Medical Systems USA, Inc./RSNA Research Seed Grant

**Canon**  
CANON MEDICAL



**JESSICA POREMBKA, MD**

*University of Texas Southwestern Medical Center*

Understanding the Impact of Temporary Testing-Related Health Utilities and Social Determinants of Health on Lung Cancer Screening Participants

Canon Medical Systems USA, Inc./RSNA Research Seed Grant

**Canon**  
CANON MEDICAL



**HARJIT SINGH, MD, FSIR**

*Johns Hopkins University*

Assessment of Indeterminate Biliary Strictures Using Ultrahigh-Resolution Optical Coherence Tomography

RSNA Research Seed Grant

# RESEARCH RESIDENT/FELLOW GRANT



***Mark Barahman, MD, PhD***

*“The GE Healthcare/RSNA Research Resident Grant will support my first independently funded study. The research proposes using a new MR device to measure liver fat and other biomarkers of Nonalcoholic Fatty Liver Disease for screening and diagnosis in the clinic. I am grateful for this award and fortunate to be a part of an amazing group of faculty imagers and residents at University of California, San Diego Radiology. This opportunity is supported by my Clinician Scientist Radiology Residency. I look forward to working with the RSNA community in the coming years as an academic interventional radiologist.”*



**ARMAN AVESTA, MD**

*Yale School of Medicine*

Developing Capsule Networks for Brain Image Segmentation

Siemens Healthineers/RSNA Research Fellow Grant

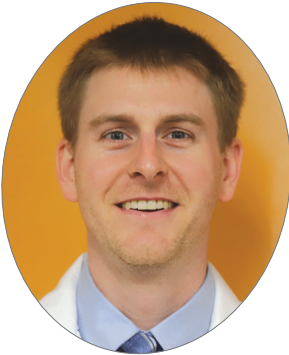


**MARK BARAHMAN, MD, PHD**

*University of California, San Diego*

Proton Density Fat Fraction Estimation With Point of Care Nuclear Magnetic Resonance Technology

GE Healthcare/RSNA Research Resident Grant



**KRISTER BARKOVICH, MD, PHD**

*University of California, San Diego*

Developing a Novel Tumor-Targeting Dual NIRF/MRI Imaging Nanoparticle for Longitudinal Molecular Cancer Imaging

Bracco Diagnostics Inc./RSNA Research Resident Grant



LIFE FROM INSIDE



**SOHA BAZYAR, MD, PHD**

*University of Maryland Baltimore*

Ultra-High Dose Rate Sparing of Lung Tissue During Radiation Therapy

RSNA Research Resident Grant



**JOSHUA BROWN, MD, PHD**

*Emory University*

Chemical Exchange Saturation Transfer MRI in  
Non-Lesional Temporal Lobe Epilepsy Imaging  
Prince Research Resident Grant



**JASON DOMOGAUER, MD, PHD**

*NYU Grossman School of Medicine*

Pilot Study of an Organ-Based Cancer Screening  
Electronic Application Tool To Improve Cancer  
Screenings for Sexual and Gender Minority Persons  
Philips/RSNA Research Resident Grant

**PHILIPS**



**JEREMY FORD, MD, MBA**

*Massachusetts General Hospital*

Blood-Brain Barrier Water Exchange in  
Alzheimer Disease

Ralph Schlaeger Charitable Foundation/  
RSNA Research Fellow Grant



**COLBEY W. FREEMAN, MD**

*University of Pennsylvania*

Going With the Flow: A Comparison of Brain  
Perfusion Detected by Ultrasound Microvascular  
Imaging, Contrast-Enhanced Ultrasound, and  
Microspheres in a Porcine Model

RSNA Research Fellow Grant



**MATTHEW GALLITTO, MD**

*Columbia University*

Focused Ultrasound-Enhanced STAT3 Inhibition and Radiosensitization for Diffuse Midline Glioma  
RSNA Research Resident Grant



**RUOQI GAO, MD, PHD**

*The University of Texas Southwestern Medical Center*

Targeted Acoustic Activation of Systemic Immunomodulating Nanodroplets as a Novel Immunotherapeutic Platform.  
RSNA Research Resident Grant



**ELMIRA HASSANZADEH, MD**

*Massachusetts General Hospital*

Protocol Optimization for Resting State fMRI Under Anesthesia  
Silver Anniversary Campaign Pacesetters Research Fellow Grant



**SAMUEL JANG, MD**

*Mayo Clinic – Rochester*

Contrast-Enhanced Ultrasound and Shear Wave Elastography in Patients Receiving Lymphaticovenous Anastomosis Surgery in the Upper Extremities  
Canon Medical Systems USA, Inc./RSNA Research Resident Grant

**Canon**  
CANON MEDICAL





**NOAH KASTELOWITZ, MD, PHD**

*Stanford University School of Medicine*

Circulating Cell-Free RNA as a Predictor  
of Radiation Therapy Toxicity

RSNA Research Resident Grant



**CODY A. KELLER, MD**

*University of California, San Diego*

Optimization of Quantitative Ultrasound Fat Fraction  
Estimation in Advanced Nonalcoholic Fatty Liver Disease  
and Nonalcoholic Steatohepatitis

Philips/RSNA Research Resident Grant

**PHILIPS**



**BEHNAZ KHAZAI, MD, MSC**

*Yale University School of Medicine*

PET Biomarker for Synaptic Density Changes  
After Radiation Therapy

RSNA Research Resident Grant



**SEAN A. KOERNER, MD, MS**

*University of Pittsburgh*

Graduated Spatially Fractionated Radiotherapy: A Novel  
Technique To Potentiate Immunotherapy Response.

RSNA Research Resident Grant



**MIN LANG, MD, MSC**

*Massachusetts General Hospital*

An Ultrafast 3-Minute MR/MRA Protocol Using Novel MR Acceleration and AI-Assisted Reconstruction Techniques for Evaluation of Acute Ischemic Stroke

Strategic Radiology Arl Van Moore Jr., MD/  
RSNA Research Resident Grant

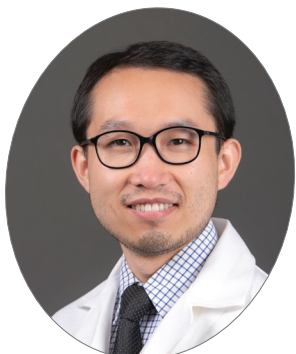


**MATTHEW D. LEE, MD**

*NYU Langone Health*

Correlation of MRI With Intraoperative 5-Aminolevulinic Acid Fluorescence and Stimulated Raman Histology in Glioblastomas

FUJIFILM Healthcare Americas Corporation/  
RSNA Research Resident Grant



**NINGCHENG LI, MD, MS**

*Oregon Health & Science University*

Chronic Post-Thrombotic Venous Biomechanical Changes and Impact on Response to Venous Intervention

RSNA Research Fellow Grant



**WILLIAM C. Y. LO, MD, PHD**

*Washington University in St Louis*

Integrin-Targeted PET Imaging and Therapeutics To Predict and Mitigate Radiation-Induced Pulmonary Fibrosis

RSNA Research Resident Grant



**JENNIFER MA, MD**

*Memorial Sloan Kettering Cancer Center*

Radiotherapeutic and Tumor Microenvironmental Determinations of Response to Immune Checkpoint Blockade in DNA Repair-Deficient Breast Cancer

RSNA Research Resident Grant



**GOHAR MANZAR, MD, PHD**

*The University of Texas MD Anderson Cancer Center*

Evaluating and Optimizing Radiotherapy Immunoconditioning To Enhance CAR-NK Cell Therapy for Head and Neck Cancer

Canon Medical Systems USA, Inc./

RSNA Research Resident Grant



**MARCELA MARSIGLIA, MD, PHD**

*Massachusetts General Hospital*

Assessment of the Diameter and Flow of the Ophthalmic and Ciliary Arteries in Patients With Advanced Dry Age-Related Macular Degeneration Using 7 Tesla MRI

Bayer HealthCare/RSNA Research Fellow Grant



**ARAM S. MODREK, MD, PHD**

*New York University Grossman School of Medicine*

DNA Damage Drives Genome Reorganization in Glioblastoma

RSNA Research Resident Grant



**SUJOY MUKHERJEE, MD**

*The University of Texas Southwestern Medical Center*

Liver Health Outcome of Longstanding Hepatic Steatosis: A Longitudinal Cohort Study of the Dallas Heart Study Population

Philips/RSNA Research Resident Grant

**PHILIPS**



**VEIT SANDFORT, MD**

*Stanford University*

Minimizing Human Labeling Effort in Cardiovascular Deep Learning Segmentation To Enable Comprehensive Risk Assessment in Type B Aortic Dissection

RSNA Research Resident Grant



**MICHAEL V. SHERER, MD**

*University of California, San Diego*

Improving Contouring Training for Radiation Oncology Residents via Implementation of Novel Curricular Elements Using an Interactive Online Contouring Platform

RSNA Research Resident Grant

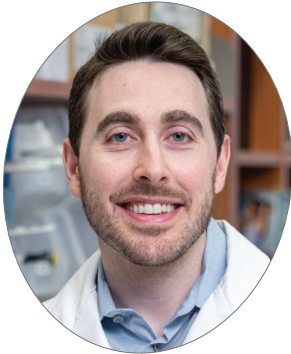


**NADIA SOLOMON, MD, MSC, MA**

*Yale New Haven Hospital*

Postmortem Imaging for Investigation of Disease Pathophysiology, Mechanisms of Injury, and Cause of Death

RSNA Presidents Circle Research Resident Grant



**DAVID TISCHFIELD, MD, PHD**

*University of Pennsylvania*

Functional Metabolic Imaging for HCC Subtyping and Response Prediction

Philips/RSNA Research Resident Grant



**OPHIR VERMESH, MD, PHD**

*Stanford University School of Medicine*

Engineering Genetically-Encoded Synthetic Reporters for Dual Breath- and Imaging-Based Early Cancer Detection

RSNA Research Resident Grant



**GREGORY WEHNER, MD, PHD**

*Mallinckrodt Institute of Radiology*

Predicting Permanent Pacemaker Implantation After Transcatheter Aortic Valve Replacement From Aortic Annulus Shape Models Derived From Pre-Procedural Computed Tomography

RSNA Research Resident Grant



**JOHN ZECH, MD, MA**

*New York Presbyterian - Columbia*

Personalized Detection of Pediatric Upper Extremity Fractures Using Deep Learning-Based Object Detection

GE Healthcare/RSNA Research Resident Grant



# RESEARCH MEDICAL STUDENT GRANT



Lindsey Greenlund, BS

*“The opportunity to pursue funded research has been a wonderful experience. Being awarded this RSNA Research Medical Student Grant has afforded me the chance to explore the fields of Radiation Oncology and Radiology that I would have not otherwise had. I have gotten to learn from experienced physician-scientists while pursuing research that I am passionate about. Additionally, this research experience has confirmed my interest in pursuing a career in academic medicine. It has been so rewarding to be on the forefront of medicine and find gaps in research, and the current knowledge base, that need to be filled.”*



**EMILY AVERY, BA**

*Yale School of Medicine*

Deep Learning Assessment of Admission CTAs  
for Prognostication of Acute Large Vessel  
Occlusion Stroke

RSNA Research Medical Student Grant



**ERNEST BARRAL, BS**

*Duke University Hospital*

Evaluation of Short- and Long-Term Clinical Outcomes in  
Patients Following Intervention for Pulmonary Embolism

RSNA Research Medical Student Grant



**JOSEPH BEHNKE, PHD**

*Emory University*

Assessment of White Matter Microstructural Integrity in  
Postconcussion Vestibular Dysfunction (PCVD) Using Diffusion  
Tensor Imaging (DTI) and Neurite Orientation Dispersion and  
Density Imaging (NODDI)

RSNA Research Medical Student Grant



**DREW BERGMAN, BA**

*Dartmouth-Hitchcock Medical Center*

Epigenetic Mechanisms of the FLASH Radiotherapy Effect

RSNA Research Medical Student Grant



**RAHUL CHANDRUPATLA, BS**

*University of California, San Diego*

Deep Learning Visualization and Quantification of Mechanical Dyssynchrony in Cardiac MRI

FUJIFILM Healthcare Americas Corporation/  
RSNA Research Medical Student Grant



**GURVANT CHAUDHARI, MD**

*University of California, San Francisco*

Modeling Risk of Progression to Lung-RADS 4  
From a Benign Lung Cancer Screening CT  
Using Imaging and Clinical Data

RSNA Research Medical Student Grant



**MICHELLE CLARK, BA**

*Memorial Sloan Kettering Cancer Center*

Predicting Lung Adenocarcinoma Histology  
Subtypes Using Deep Learning Methods

RSNA Research Medical Student Grant

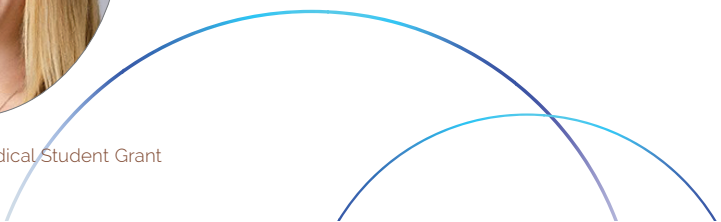


**JAMIE CLARKE, MS**

*University of Miami*

Amplified Imaging of the Pediatric Brain

RSNA Research Medical Student Grant







**ERIN GAUDETTE, BS, MSC**

*Dalhousie University Faculty of Medicine*

Development of a Multi-Parametric Model To Distinguish Between Pseudoprogression and Progression of Glioblastoma Multiforme

RSNA Research Medical Student Grant



**AMANDA GONG, BA**

*The University of California, Los Angeles*

Deep Learning in RECIST Oncology Response Assessment: Automated New Lesion Detection

RSNA Research Medical Student Grant



**PRATEEK GOWDA, BS**

*Johns Hopkins University*

Understanding the Hemodynamics Behind the “Beats-of-Stasis” Embolization Endpoint Using a Multiparametric “In Vitro” Model of Transarterial Embolization

RSNA Research Medical Student Grant



**LINDSEY GREENLUND, BS**

*University of Minnesota*

Comparison of Myeloid Derived Suppressor Cells in Tumor Tissue and Peripheral Blood in Head and Neck Cancer Patients

RSNA Research Medical Student Grant



**DANIEL GRITS, MS**

*Cleveland Clinic*

A Comparative and Correlative Evaluation of Early to Late Stage Osteoarthritis in Human Knee Cartilage Utilizing Clinical and Preclinical MRI Imaging (3T & 7T) With Histopathology and Immunohistochemistry as the Standard  
RSNA Research Medical Student Grant



**AMIR HASANI, MS**

*National Institutes of Health*

Similarities and Differences of Lung Cysts in LAM and BHD Using Radiomics and Machine Learning on High-Resolution CT Scan  
RSNA Research Medical Student Grant



**JANSON KAPPEN, BSC**

*University of Western Ontario*

Visualization Tools To Aid Vascular Assessment in Pancreatic Adenocarcinoma Staging CT  
RSNA Research Medical Student Grant



**MIHIR KHUNTE, BS**

*Rhode Island Hospital*

Development and Clinical Validation of Fully Automated Artificial Intelligence Pipeline for Longitudinal Tracking of Kidney Health on Magnetic Resonance Imaging  
RSNA Research Medical Student Grant



**MICHAEL KOZUCH, MD, MPH**

*The Medical College of Wisconsin, Inc*

Impact of a Standardized Vertebral Compression Fracture Management Pathway on Healthcare Resource Utilization and Opioid Use

RSNA Research Medical Student Grant



**SORYAN KUMAR, BS**

*Rhode Island Hospital*

Deep Reinforcement Active Learning for Post-Treatment Brain Tumor Segmentation with Quality Estimation

RSNA Research Medical Student Grant

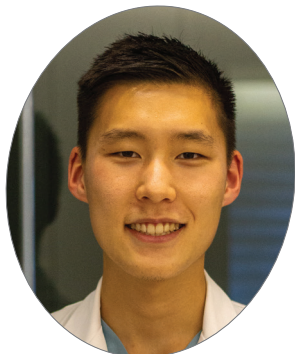


**ANDREW LANCASTER, BS**

*Johns Hopkins University*

A Deep Learning-Based Multi-Task Artificial Intelligence System for Quantitative Medical Image Analysis of Thoracic Abnormalities on Chest CT

RSNA Research Medical Student Grant



**JONATHAN LEE, BS**

*Keck School of Medicine of University of Southern California*

Predicting Bone Density From Spine CT and Demographic Data with a Multimodal Regression Network

RSNA Research Medical Student Grant



**ZACHARY MILLER, BSE**

*University of Wisconsin-Madison*

Improving MRI Detection of Pulmonary Nodules Using High Resolution, End-Inspiratory Breath Held 3D UTE Lung Imaging

RSNA Research Medical Student Grant



**ARIF MUSA, MS**

*University of California Irvine Medical Center*

(EMPOWER) Evaluating Medical Student Participation, Observation, and Workstation Education in Radiology: Implementing a Hybrid Learning Model in Diagnostic Radiology Electives

RSNA Research Medical Student Grant



**DANIELLA PORTAL, BS**

*Rutgers Cancer Institute of New Jersey*

Evaluating the Role of Adaptive Radiation Planning on Reducing Pneumonitis in Patients With Non Small Cell Lung Cancer

RSNA Research Medical Student Grant



**DIVYA RAMAKRISHNAN, BS**

*Yale School of Medicine*

PACS-Based Volumetric Analysis To Improve Outcome Prediction in Pediatric Neuro-Oncology Clinical Trials

RSNA Research Medical Student Grant



**ALEX RAMAN, MS**

*University of Southern California*

A Federated Learning System for Radiologic Image Segmentation

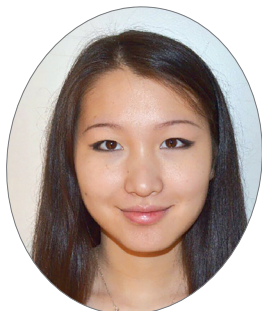
RSNA Research Medical Student Grant



**ASHWIN REDDY, BS**

*Rhode Island Hospital*

Artificial Intelligence for Pancreatic Cancer Evaluation and Outcome Prediction from Imaging and Clinical Data  
RSNA Research Medical Student Grant



**SYLVIA RHODES, BA**

*University of Pennsylvania*

Improving Submission Quality of Clinical Trials That Use Molecular Imaging or Therapy: Findings of the University of Pennsylvania Radiation Research Safety Committee  
RSNA Research Medical Student Grant



**ARRIX RYCE, MSC**

*Emory University School of Medicine*

Interpretable Machine Learning for Management of Abdominal and Pelvic Injuries Caused by Blunt Trauma: A Feasibility Study With the Trauma Quality Improvement Program Registry  
RSNA Research Medical Student Grant



**JEREMY STEPHAN**

*Rush University Medical Center*

Derivation and Validation of an Algorithm for Predicting Major Adverse Health Events Following Low-Dose CT Lung Cancer Screening  
Philips/RSNA Research Medical Student Grant

**PHILIPS**



**WALTER ZHAO**

*Case Western Reserve University*

Enhancing Robustness of Magnetic Resonance Radiomics Using Quantitative MR Fingerprinting  
RSNA Research Medical Student Grant

# EDUCATION GRANTS



Toma Omofoye, MD

*“With the increase in breast cancer diagnosis in low and middle-income countries, alongside a severely limited radiologist workforce, capacity building is of critical importance. Our collaboratively designed educational project provides novel resources customized for radiologists practicing in low-resource areas. It has far exceeded its recruitment goals, as it is being enthusiastically embraced by international radiologists. The eponymous award by the Helen C. Redman, MD & Marten F. Klop Education Scholar Grant for this project to improve breast health in African countries, highlights the potential impact of female radiologists on the advancement of women. Through this support, I have the rare opportunity to be deeply immersed in my lifelong passion: advancing global health equity.”*

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



### **JONATHAN G. MARTIN, MD**

*Duke University School of Medicine*

Development of a Series of Didactic Portable Radiology  
Escape Rooms for Undergraduate Medical Education

RSNA, AUR, APDR, SCARD Radiology Education Research  
Development Grant

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## DEREK HARWOOD-NASH INTERNATIONAL EDUCATION SCHOLAR GRANT



### **KATRINA MCGINTY, MD**

*University of North Carolina, Chapel Hill*

International Peer Learning: The Future of  
Global Imaging Education

Derek Harwood-Nash International  
Education Scholar Grant

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## EDUCATION SCHOLAR GRANT



### **TOMA OMOFOYE, MD**

*The University of Texas MD Anderson Cancer Center*

Development of a Customized Interactive Web-Based Global  
Breast Imaging Curriculum With Self-Assessment for  
Radiologists in Low- and Middle-Income Countries

Helen C. Redman, MD & Marten Klop Education Scholar Grant

# EDUCATION PROJECT AWARD



Masis Isikbay, MD

*“On call radiologists, at all training levels across the globe, work tirelessly to provide the very best care possible to their patients. With the rising volume of scans ordered after hours and the increased importance of imaging in the clinical decision-making process, our work with the Educational Program Award will help further these efforts. I am very grateful for the opportunity to pursue this work with the support of this RSNA Educational Program Award and grateful to my program director and mentor, Soonmee Cha, MD.”*

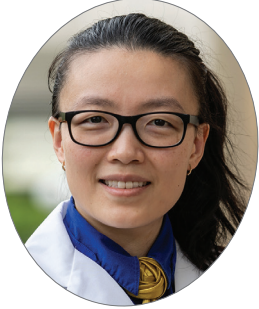




**MASIS ISIKBAY, MD**

*University of California, San Francisco*

Standardized Web Based Call Preparation Curriculum for Diagnostic Radiology  
RSNA Education Project Award



**LEANNE YAUNCI LIN, MD, MPH**

*University of Michigan Hospital*

Applications for 3D Models and Augmented Reality for Patient Education and Outreach  
RSNA Education Project Award



**SIDAK PANNU, MD**

*Dartmouth Hitchcock Medical Center*

DartRad – A Radiology Education Portal by Medical Students for Medical Students  
RSNA Education Project Award



**JORDAN PERCHIK, MD**

*University of Alabama at Birmingham*

Artificial Intelligence Literacy: Developing a Multi-Institutional Infrastructure for AI Education  
RSNA Education Project Award



**KAREEM RAYN, MD**

*New York Presbyterian Hospital – Columbia University Irving Medical Center*

Transition to Independent Practice Curriculum Year (TIPCY)  
RSNA Education Project Award

# ROENTGEN AWARDS



*The RSNA R&E Foundation Roentgen Resident/Fellow Research Award allows residency program directors and department chairs to recognize and encourage outstanding residents and fellows in radiologic research. Recipients of this award have published in peer-reviewed journals, presented work at regional and national meetings, received a research grant or contributed to the success of a departmental research program.*

**Rami Abazid, MD**  
*Western University*

**Mostafa Alabousi, MD**  
*McMaster University*

**Rosa Elena Ochoa Albiztegui, MD**  
*Memorial Sloan Kettering Cancer Center*

**Khalid Al-Dasuqi, MD**  
*Yale University School of Medicine*

**Ragheed Al-Dulaimi, MBChB, MPH**  
*University of Utah*

**Leen Alkukhun, MD**  
*SUNY Upstate Medical University*

**Hayet Amalou, MD**  
*UCLA Medical Center/DGSOM*

**Victoria Arendt, MD**  
*Stanford University*

**Ashkan Heshmatzadeh Behzadi, MD**  
*Bridgeport Hospital*

**Corey Bichel, DO**  
*Southern Illinois University  
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**Aaron D Brumbaugh, MD**  
*Allegheny Health Network*

**William G. Breen, MD**  
*Mayo Clinic*

**Mason Anthony Brown, MD**  
*Aurora St. Luke's Medical Center*

**Christopher Brunson, MD**  
*The University of Arizona*

**David Jaihun Byun, MD**  
*NYU Langone Health*

**Reno Cereno, MD**  
*BC Cancer Kelowna*

**Thymur Chaudhry, MD**  
*Southern Illinois University  
School of Medicine*

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*University of Tennessee –  
LeBonheur Children's Hospital*

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*University of Virginia*

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*Mayo Clinic Arizona*



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