



RSNA Research & Education Foundation

New Grants Approved for Funding 2026

RESEARCH GRANTS

RESEARCH SCHOLAR GRANT

The Foundation's 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 \$200,000.

Dooman Arefan, PhD*

University of Pittsburgh

Investigate Novel Imaging Biomarkers from Breast DCE-MRI for Predicting Long-Term Risk of Breast Cancer Recurrence

Angela Castellanos R., MD

University of Washington

Imaging PARP Expression To Improve Phenotyping in Cholangiocarcinoma

Neil Chatterjee, MD, PhD

Northwestern University Feinberg School of Medicine
Clinical Implementation of Opportunistic Screening for Liver Disease Using an AI Orchestrator

Florence Chiang, MD, PhD*

UT Southwestern Medical Center

Toward Characterization of Network-Based Neurodegeneration and Neuroinflammation in Multiple Sclerosis Using PET/MRI

Pippa Cosper, MD, PhD*

University of Wisconsin - Madison

Chromosomal Instability as a Biomarker of Radiation Response in HPV+ Head and Neck Cancers

Mikhail Doubrovin, MD, PhD*

Columbia University Irving Medical Center

Mechanisms of Response to FAP Radiotherapy with Immunotherapy in NSCLC

Andrew C. Gordon, MD, PhD*

Northwestern University

Defining an Ablative Dose for Y90 TARE with Advanced Dosimetry and Functional MRI

Avanti Gulhane, MD*

University of Washington

Enhancing Cardiac MR Imaging of Sarcoidosis via Radiomics Texture Analysis to Reduce Patient Burden and Improve Efficiency

Joan Eliasoph, MD/RSNA Research Scholar Grant

Sumit Gupta, MBBS, PhD*

Brigham & Women's Hospital

Utilizing Spectral and Ultra High-Resolution Data from Non-Contrast Photon Counting Computed Tomography for Enhanced Cardiopulmonary Tissue Characterization in Transthyretin Amyloid Cardiomyopathy

Christopher Hensley, MD, PhD*

The University of Alabama at Birmingham

Optimizing Glutamine PET Tracer Development to Guide Glutamine Inhibitor Use in Breast Cancer

Hwan Lee, MD

Massachusetts General Hospital

Theranostic Targeting of the Cell Nucleus in Metastatic Triple-Negative Breast Cancer

GE HealthCare/ RSNA Research Scholar Grant

Doris Leithner, MD*

NYU Grossman School of Medicine

Multinuclear MRI for Treatment Monitoring in Patients With HER2 Positive Breast Cancer

Ningcheng Peter Li, MD*

University of Massachusetts

Gene Therapy for Chronic Venous Disease: Optimizing Delivery and Therapeutic Impact in a Large Animal Model

Tyler Mandt, MD

University of California, San Diego
Concurrent STING and TLR9 Activation with Percutaneous Cryoablation and Systemic CTLA-4 and PD-1 Inhibition to Induce Antitumoral Immunity in a Murine Model of Hepatocellular Carcinoma

Thomas Marini, MD*

University of Rochester Medical Center
A New Frontier in Neuroimaging: Testing Ultrasound Tomography for Imaging of the Brain

Arash Nazeri, MD*

Mallinckrodt Institute of Radiology
Indirect and Direct Deuterium Displacement Exchange Imaging for Probing Brain Fluid Dynamics in Health and Disease

Tyler Richards, MD

University of Utah
Development of a Vision-Language Model for Automated Measurements in Adult Degenerative Scoliosis

Arman Sharbatdaran, MD

Weill Cornell Medicine
Whole-Body MRI Assessment of Body Composition Remodeling During GLP-1 Agonist Therapy for Obesity

Yashbir Singh, PhD

Mayo Clinic
Multiparametric MRI Topological Biomarkers Predict Cholangiocarcinoma in PSC: A Persistent Homology-Deep Learning Framework
Canon Medical Systems USA, Inc./RSNA Research Scholar Grant

Faezeh Sodagari, MD

Case Western Reserve University School of Medicine, University Hospitals Cleveland Medical Center
Rapid and Accurate Breast Cancer Screening with Magnetic Resonance Fingerprinting

Avik Som, MD, PhD

University of Washington
Bridging the Translation Gap in Intratumoral Immunotherapy Development of LipiGel for Hepatocellular Carcinoma
Bracco Diagnostics Inc./RSNA Research Scholar Grant

David Tischfield, MD, PhD

University of Pennsylvania
In Vivo Imaging of α -Ketoisocaproate Metabolism to Guide Precision Therapy in Hepatocellular Carcinoma

Kuan Kevin Zhang, PhD

UT Southwestern Medical Center
From Einstein on a Beach to Glioma Synthesis: Free-Text Feature-Preserving Diffusion Models for Medical Image Generation

**indicates second year-scholar grant recipient*

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 \$60,000.

Abraham Fourie Bezuidenhout, MD

Beth Israel Deaconess Medical Center
Mapping the Microstructure of Pancreatic Ductal Adenocarcinoma Utilizing Ex Vivo 9.4T MRI and Radiomic Analysis: An Exploratory Study
Joan Eliasoph, MD/RSNA Research Seed Grant

Sabrina Campelo, PhD

UT MD Anderson Cancer Center
Imaging the Temporal Window of Electroporation Induced Radiosensitivity to Optimize Proton Therapy in Gliomas

Aleksandr Drozdov, MD, PhD

University of Vermont, Larner College of Medicine
Automated Detection of High-Grade Glioma Progression: Validation of a Decoupled Asymmetric Thresholding Pipeline

Ana Filipa Geraldo da Silva Couceiro, MD, PhD

Stanford University
Feasibility of 4D-Flow MRI to Evaluate Hemodynamics and Treatment Response in Pediatric Cervicofacial Slow-Flow Vascular Malformations

Alexandra Gersing, MD, PhD

University of California, San Francisco

Artificial Intelligence-Enabled Magnetic Resonance Muscle Biomarkers for Unravelling the Role of Muscle in Low Back Pain

Shenise Nicole Gilyard, MD

University of California, Los Angeles

Development of a Novel Classification System To Standardize Reporting on Acute Chest Syndrome in Adults Based on Correlation Between Imaging Findings and Clinical Outcome

Ajay Kumar, MD, PhD

University of Pennsylvania

In Vivo Visualization and Quantification of Inducible Nitric Oxide Synthase Pathway Using [18F]-NOS PET-CT in Multiple Sclerosis Patients with Progressive Biology

Hossein Nejadnik, MD, PhD

University of Pennsylvania

Noninvasive MRI Visualization of Therapeutic Immune Cells in Neuro-Oncology
Siemens Healthineers/RSNA Research Seed Grant

Oleg S. Pinykh, PhD

Massachusetts General Hospital

Leveraging Novel Learning Artificial Intelligence Tools to Optimize Interventional Radiology Scheduling and Improve Service Efficiency and Patient Access
Strategic Radiology/RSNA Research Seed Grant

Kailin Yang, MD, PhD

University of Iowa

Targeting Aberrant Lactylation to Enhance Therapeutic Efficacy in Glioblastoma

RESEARCH FELLOW/RESIDENT GRANT

This grant provides investigators a chance to explore powerful ideas. Working alongside an experienced advisor, trainees gain insight in research methods and techniques; it is a catalyst to pursue research at a critical point in a radiologist's career. Maximum two-year grant of \$50,000/\$75,000.

Caroline Adams, MD, PhD

University of Pennsylvania

Magnitude and Duration of Focused Ultrasound Mediated Blood-Brain Barrier Opening Across Pediatric Brain Regions
RSNA Research Fellow Grant

Michelle Bardis, MD

University of California Irvine

AI-Enabled Opportunistic Screening and Characterization of Incidental Breast Lesions on CT Imaging
RSNA Research Fellow Grant

Ruoqi Gao, MD, PhD

UT Southwestern Medical Center

In Situ Reprogramming of Tumor-Associated Microglia with Chimeric Antigen Receptor as a Novel Treatment for Glioblastoma
RSNA Research Fellow Grant

LeMoyne Michael Habimana-Griffin, MD, PhD

University of Wisconsin-Madison

Increasing the Translational Fidelity of Immuno-Radiotherapy Models Using "Dirty" Mouse Microbiomes
RSNA Research Fellow Grant

Maximiliano Klug, MD

Massachusetts General Hospital

Doing More With Less: Improving Surveillance Following Resection of Early-Stage Lung Cancers With Quantitative Image Analysis and Deep Learning
Ralph Schlaeger Charitable Foundation/RSNA Research Fellow Grant

Doğan S. Polat, MD

Mount Sinai Hospital

AI-Automated CTA Thrombus Burden Quantification and Multimodal, Imaging-Clinical-Echocardiographic, Risk Stratification in Intermediate/High-Risk Pulmonary Embolism
RSNA Research Fellow Grant

Jiaren Zou, PhD

University of Michigan

MR-Based Tumor Microstructure Imaging for Guiding Treatment De-Escalation in Early-Stage HPV-Related Oropharyngeal Squamous Cell Carcinoma
RSNA Research Fellow Grant

Nooshin Abbasi, MD

Brigham & Women's Hospital

From Recommendation to Action: Extracting and Structuring Recommendations for Additional Imaging with Large Language Models to Improve Safety and Efficiency
RSNA Research Resident Grant

Ayush Bhadresh Doshi, MD

The University of Virginia

Open-source LLM-Augmented Radiology Report Comparison Tool with Automated Feedback System for Residents: Evaluating an Application of AI to Improve Resident Education

Vision Radiology/RSNA Research Resident Grant

Justin Jagodinsky, MD, PhD

Stanford University

Radiogenomic Localization of Radioresistant Subclones in Human Sarcomas

RSNA Research Resident Grant

Katherine Luo, MD, PhD

University of Pennsylvania

Ultrasound Evaluation of Cerebral Perfusional Changes During Pediatric Cardiac Surgery

RSNA Research Resident Grant

Liliana Ma, MD, PhD

Stanford University

Direct K-Space Feature Learning for Prostate Tumor Identification and Histopathology-Aligned Grading

RSNA Research Resident Grant

Shant Malkasian, MD

University of California, San Diego

Improving the Concordance of Coronary CTA and Second-Line Functional Imaging with Invasive Coronary Angiography using Large Language Models

RSNA Research Resident Grant

Evan Masataka Masutani, MD, PhD

University of California, San Diego

Towards Deep Learning Diagnosis and Surveillance of Hypertrophic Cardiomyopathy with Cardiac CTA

RSNA Research Resident Grant

David Reza Mittelstein, MD, PhD

University of California, San Diego

Optimizing Checkpoint Inhibitor Timing for Cryoablation/CpG Combined Therapy in a Preclinical Multifocal MASH-Associated HCC Model

RSNA Research Resident Grant

Acacia Mouzakis, MD, PhD

Harvard University

A Chemical Proteomics Campaign To Understand and Defeat Radiation Resistance in Soft Tissue Sarcoma

RSNA Research Resident Grant

Alexander Victor Ortiz, MD

Stanford University

AI-Assisted Detection of Brain Metastases on MRI: Multi-Reader, Multi-Case Study Using Standard and Black-Blood Sequences

RSNA Research Resident Grant

Eri Osta, MD

The University of Texas at Austin

Automated Longitudinal Lesion Tracking and LLM-Based Response Summarization for Oncologic Imaging

RSNA Research Resident Grant

Ambika E. Paulson, MD

Vanderbilt University Medical Center

Genetic and Epigenetic Determinants of Paget's Disease Progression in a Radiographically Defined Cohort

RSNA Research Resident Grant

Alexander Pieper, MD, PhD

University of Pennsylvania

Image Guided Locoregional Therapy for Induction of Tertiary Lymphoid Structures and In Situ Vaccination in Hepatocellular Carcinoma

Bracco Diagnostics Inc./RSNA Research Resident Grant

Andrew Connor Puett, MD, PhD

University of California, San Diego

Linking Radiation Dose to Longitudinal MRI Biomarkers of Injury in the Cognitive Connectome Following Intracranial Radiosurgery

Prince/RSNA Research Resident Grant

Diwash Thapa, MD

UT Southwestern Medical Center

Quantitative MRI-derived Oxygen Delivery—Extraction Habitats as Biomarkers of Radioresistance in Glioma

Ullrich/RSNA Research Resident Grant

Joy Tzung-yu Wu, MBChB

Stanford University

Training a Safe Gaze-AI-Agent for Interactive Tumor Burden Reporting on FDG-PET/CT Scans Using Reinforcement Learning From Expert Gaze Feedback

RSNA Research Resident Grant

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.

Danyaal Ansari

University of Ottawa *research performed at*

Dalhousie University

Does the Absence of an Ancillary Feature Improve the Diagnostic Performance of CT/MRI LIRADS? An Individual Participant Data Meta-Analysis

Long Huen Au

University of California, Davis School of Medicine

Comparative Assessment of Conventional CT and Photon-Counting CT for Coronary Artery Disease Evaluation: Influence on CAD-RADS Classification and Ischemia-Positive Findings

Jaeden Cortes

University of Rochester

Automated Breast Lesion Detection Using Volume Sweeping Ultrasound and Deep Learning in Peru

Cam Dang

University of California, Davis School of Medicine

Optimizing Cone Beam CT-Based Tumor Volume Estimation for Yttrium-90 Radioembolization Pretreatment Planning

Ria Dave

University of Missouri-Kansas City *research performed at* Washington University in St. Louis

Pink and Pearl Plus: Increasing Lung Cancer Screening in a Mammography Population

Matthew Dyer

University of Louisville

Imaging Characteristics and Clinical Outcomes of Lung Metastases in Prostate Cancer Using PSMA PET: A Large-Cohort Analysis

Fielding Fischer

Harvard Medical School

Diagnostic Performance of Saline-Only MR Arthrography Using T2 Fluid-Sensitive Imaging Compared with Standard Gadolinium-Enhanced MR Arthrography: A Prospective Non-Inferiority Study

Nicholas Fong

University of California, Davis School of Medicine

Cardiac CTA Findings in Environmentally Vulnerable Populations: Associations Between Socioeconomic Status, Pollution Exposure, and Subclinical Disease

Swetha Ganesan

University of California, Davis School of Medicine

Socioeconomic and Structural Disparities in Access to PET/CT Imaging Among Cancer Patients at UC Davis Health: A 10-Year Retrospective Cohort Study (2014-2024)

Madison Gardner

University of Utah

Clinical Utility and Cost Analysis of Fluoroscopy-Guided Joint Aspirations

Vedant Garg

University of Florida

Decomposing the Trauma Computed Tomography (CT) Imaging-to-Action Pathway at a Level I Trauma Center: Impact of Closed-Loop Radiology Communication on Time to Hemorrhage Control

Roham Hadidchi

Nova Southeastern University College of Osteopathic Medicine *research performed at John Hopkins University*

Automated Temporalis Muscle Segmentation on Brain MRI to Quantify Sarcopenia and Mobility Risk

Niki Hosseinzadeh Khaligh

University of California, Davis School of Medicine

Socioeconomic Determinants of Coronary Atherosclerosis and High-Risk Plaque Characteristics in Women: Insights from Cardiac CT

Kevin Hu

Columbia University Vagelos College of Physicians and Surgeons

Head CT Radiomics and Machine Learning for Prediction of Neurological Deterioration in Hemorrhagic Stroke

Nayid Jana

Washington University in St Louis School of Medicine

Enhancing the Detection, Prediction, and Clinical Interpretation of Amyloid-Related Imaging Abnormalities (ARIA) in Alzheimer's Disease Therapy

Simon Liu

UCLA David Geffen School of Medicine

Enhancing Diagnostic Efficiency: An Automated Framework for Intelligent Radiation Dose Visualization in the Electronic Medical Record

Alan Mach

Warren Alpert Medical School of Brown University

AI-Driven Early Diagnosis and Treatment Response Prediction in Idiopathic Normal Pressure Hydrocephalus

Subhashini Madhuranath

Touro College of Osteopathic Medicine

Added Value of Radiomics of Peri-Hematoma Edema Diffusion Metrics on MRI in Predicting Discharge Outcomes of Acute Intracerebral Hemorrhage

Cameron May

University of Maryland

A Modular, Open-Source Platform for Multi-Reader, Multi-Case and Human-Factors Evaluation of AI in Radiology

Jiung Nam

Duke University

Association of Fully Automated Deep Learning CT Body Composition Analysis and Lipoprotein (a) with Major Cardiovascular Events

Precious Chiamaka Nwadike

University of California, Davis School of Medicine

AI-Assisted Eye-Tracking-Driven Training Platform for Radiology Education and Early Residency Competency Development

Yael Sarig

Columbia University

Advanced 3D Visualization and Its Implementation Among Congenital Heart Disease Cohorts

Audrey Todd

Stanford University

Renal Mass Ablation: Treatment Response Algorithm Proposal and Exploratory Study

Ethan Bailey Wang

Johns Hopkins University School of Medicine

Agreement Between Deep Learning-Based Automated Brain Volumetry Tools: A Retrospective Comparison of FastSurfer and NeuroQuant

Colin Wu

University of the Incarnate Word School of Osteopathic Medicine

A Reproducible Multimodal Ensemble AI Model for Predicting First-Cycle Non-Responders to Transarterial Chemoembolization in Hepatocellular Carcinoma

Albert Yen

University of Illinois Chicago

Advanced 3D-Luminal Water Imaging for Prostate Cancer Assessment

Austin Zhang

University of Pennsylvania

Establishment of a Patient-Derived Xenograft Rat Model of Hepatocellular Carcinoma that Enables the In-Vivo Study of Locoregional Therapies

Mary Zhou

University of Rochester School of Medicine and Dentistry

Breast Volume Sweep Imaging (VSI) for Triage of Palpable Breast Lumps in Low-Resource Settings

GE HealthCare/RSNA Research Medical Student Grant

Brian Zhou

Emory University School of Medicine

Predicting Plaque Progression from Cardiac CT

Bayer HealthCare/RSNA Research Medical Student Grant

EDUCATION GRANTS

EDUCATION SCHOLAR GRANT

Innovation in education can transform the way radiologists learn, understand, and care for patients. This grant funds investigators looking to affect radiology education around the world. One-year grant of up to \$75,000; two year grants will be considered in exceptional cases.

Mariam S. Aboian, MD, PhD

Children's Hospital of Philadelphia

Leveraging the ASNR MICCAI Brain Tumor Segmentation (BraTS) Challenge to Provide Educational and Computational Support for International Radiology Trainees in Creating Artificial Intelligence-Based Tools for Clinical Neuroradiology

Derek Harwood-Nash International Education Scholar Grant

Katherine Zukotynski, MD, PhD

University of Toronto

Development and Implementation of a Psychosocial Oncology Program for Radioligand Therapy

RSNA International Education Scholar Grant

EDUCATION PROJECT AWARD

This project award is intended to recognize and highlight the impact of educators by providing supplemental funding of up to \$20,000 for new or ongoing education projects.

Hernan Chaves, MD

Fleni Belgrano

RadSim: An Open-Source AI-Assisted Radiology Simulator for Competency-Based Training

Vrushab Gowda, MD, JD

Massachusetts General Hospital

RadEd+: An Open-Access Legal, Regulatory, and Economic Curriculum for Radiology Trainees

Bahram Mohajer, MD

University of Pennsylvania

Closing the Feedback Loop: An LLM-Enabled Repository for Error-Based Resident Education

Teleradiology Solutions/RSNA Education Project Award