



Your Investment in Action

The 2025 Roentgen Fund Annual Report

What does the future of radiology look like?

It looks like an AI that can precisely track brain tumors across continents. It looks like a new MRI technique that can diagnose a debilitating condition that once baffled clinicians. It looks like empowering educators to train the next generation of radiologists in new, innovative ways.

And it's all happening right now.

Thanks to your generous support of The Roentgen Fund, we are fueling the brilliant minds turning these visions into reality. This report highlights the incredible progress our awardees are making: progress that is reshaping our field and redefining patient care.

Here is just some of what you made possible this year.

Message from the Chair of The Roentgen Fund



The pages of this report tell a powerful story of progress and potential. You've seen how your support empowers established leaders like our ARRS Scholars, who are building global AI tools to fight brain cancer and developing new techniques to diagnose debilitating conditions with 97% accuracy.

Just as importantly, you've met the next generation of innovators: our Resident and Fellow Awardees. From using AI to accelerate stroke care to optimizing cardiac MRI with machine learning, their work is a thrilling preview of the future they are building.

This is the essence of The Roentgen Fund: we fuel the entire pipeline of discovery. We provide the protected time for brilliant scholars to pursue breakthrough ideas, and we give rising stars the platform to launch their own. Our collective support is what allows us to advance our specialty from within.

As we look to the year ahead, I ask you to help continue this vital work. One hundred percent of your investment goes directly to the research and educational programs that will solve our field's next great challenges. Please make your investment today and join us in empowering the people who move radiology forward.

Thank you,

Erik K. Paulson, MD

Chair of The Roentgen Fund Board of Trustees



Pushing the Boundaries of Medical Imaging



\$ 400,000+
in scholarships,
grants, and awards
provided each year.



380
clinician educators
trained through
CEDP since 2008.



1 in 4
sessions at the
2025 ARRS Annual
Meeting included a
past scholar, fellow,
or award winner.

Our ARRS Scholars are established investigators tackling some of the biggest challenges in radiology. Their multi-year projects are designed for high impact, and their recent successes are nothing short of inspiring.

Evan Calabrese, MD, PhD is building a revolutionary AI tool to improve care for patients with glioblastoma. His team launched a federated learning initiative, involving collaborators from five continents and more than 6,000 MRI exams. This project is on track to deliver a powerful, publicly available tool that will help clinicians everywhere treat these tumors with greater precision.

Ian Mark, MD is demystifying spontaneous intracranial hypotension. Using brain MR elastography, he's making the invisible, visible. His novel technique has diagnosed spontaneous intracranial hypotension with 97% accuracy in patients with otherwise normal brain MRIs.

Steven Rothenberg, MD is pioneering research on the "nocebo" effect (where negative expectations cause negative outcomes) in lumbar spine MRI reports. Since receiving the scholarship, Dr. Rothenberg has launched a clinical trial, filed three distinct patent applications, and published multiple articles in top journals. His incredible productivity earned him the Most Prolific Inventor award from the Herbert Institute for Innovation and Entrepreneurship.



Investing in Our People: New Educational Programs

The Roentgen Fund is also innovating how we support radiologists at every career stage. We're thrilled to highlight two new programs designed to build and sustain careers in academic radiology.

CEDP Level 2: Leveling Up Educators

The Clinician Educator Development Program (CEDP) Level 2 is a hands-on, advanced course for mid-career educators. This exclusive program helps faculty master curriculum development, navigate challenging learning environments, and leverage new technologies in their scholarly work.

SPARC: Launching Academic Careers

Sparkling and Promoting Academic Radiology Careers (SPARC) is a new three-day program that launched this year to introduce residents to the immense opportunities in academic radiology. Led by top faculty, SPARC provides mentorship, networking, and practical guidance on everything from building a CV to finding the right job.

Shaping the Conversation: Radiology Journalism Fellowships

Clear communication is just as critical as groundbreaking research. The Figley and Rogers Fellowships, supported by The Roentgen Fund, train practicing radiologists to become leaders in medical publishing and journalism.

Our 2025 Fellows, **Erin Alaia, MD** of NYU Langone and **Domen Plut, MD, PhD** of University Medical Centre Ljubljana, Slovenia, received hands-on mentorship from the leadership of the *American Journal of Roentgenology (AJR)* and *Roentgen Ray Review (R3)* teams, preparing them to guide the scientific conversation for years to come.

This training is already supporting new research. Dr. Alaia recently published new research in *AJR*, showing MRI can effectively identify LMORTs, a complex meniscal tear associated with ACL injuries.



The Next Wave

The **Resident/Fellow in Radiology Awards** recognize the most promising trainees in our field, giving them a platform to share their work at the ARRS Annual Meeting.

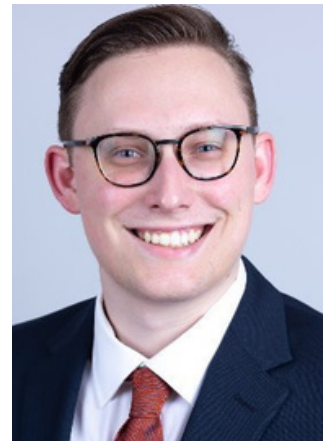
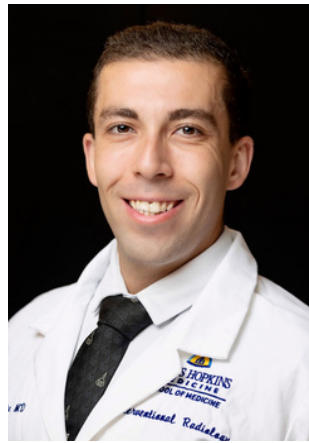
The 2025 winners are an exceptional group.

Capt. Tej Mehta, MD (Johns Hopkins): A decorated U.S. Air Force officer and chief resident developing machine learning algorithms for early prediction of treatment outcomes in interventional oncology.

Jordan H. Chamberlin, MD (MUSC): A rising star in cardiac imaging who applies his background in drug discovery and informatics to the clinical implementation of machine learning.

Shadi Ebrahimian, MD (Yale): An AI powerhouse with over 40 peer-reviewed publications focused on validating AI algorithms and improving clinical decision-making.

Ariel S. Kniss, MD, PhD (MGH): A chief resident who uniquely combines mathematics, biomedical engineering, and radiology to advance breast imaging research.



From Award to Practice-Changing Publication

What happens after the award? Just ask **Derek L. Nguyen, MD (Duke University)**, a 2022 award recipient. His fund-supported research has led to two major publications in the *AJR* that are changing breast imaging.

His work has shown that:

1. A specific ultrasound finding (an "**echogenic rind**" or bright rim) is a highly specific indicator of invasive breast cancer, improving diagnostic confidence.
2. For certain low-risk lesions found only on tomosynthesis, imaging surveillance can be a safe alternative to surgery, helping patients avoid unnecessary procedures.

This is the tangible, patient-centered impact of your investment at work.

The Future is Bright

This year, we were thrilled to award our 2025 ARRS Scholarships to two exceptional investigators: **Matthew H. Lee, MD (University of Wisconsin Hospital)** and **Luca Pasquini, MD (Yale University)**.

With your support, Dr. Lee will research AI applications in abdominal imaging, and advancing radiology's role in population health, while Dr. Pasquini, an acclaimed neuroradiologist, will explore new frontiers in brain plasticity.



From an AI that sees across borders to a resident with a world-changing idea, every story in this report started with one thing: **your support.**

The progress you see here is just the beginning. The discoveries being made by our scholars, fellows, and awardees will ripple out for years, improving diagnoses, streamlining care, and ultimately, saving lives.

Together, we are not just funding projects; we are fueling the future of radiology. Thank you for being a part of it.

To continue fueling this vital work, please consider renewing your support for The Roentgen Fund.

