



The University of Arizona
**DISABILITY
CULTURE**

R & R RECOGNIZE & REWARD

March 2024



Banner
University Medical Center
Tucson



THE UNIVERSITY OF ARIZONA
COLLEGE OF MEDICINE TUCSON
Medical Imaging

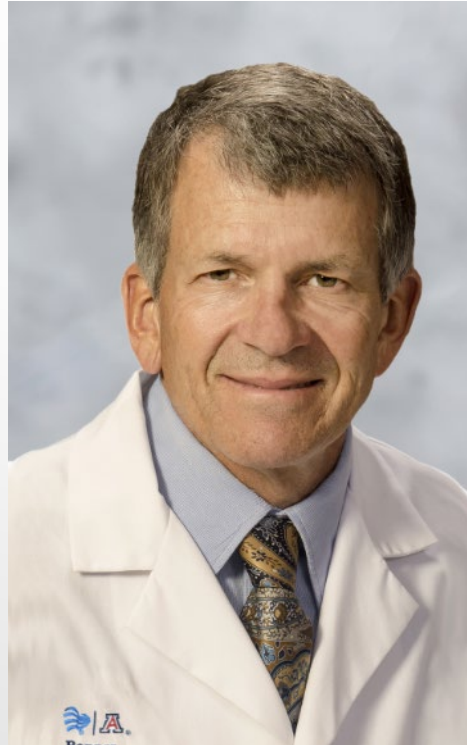
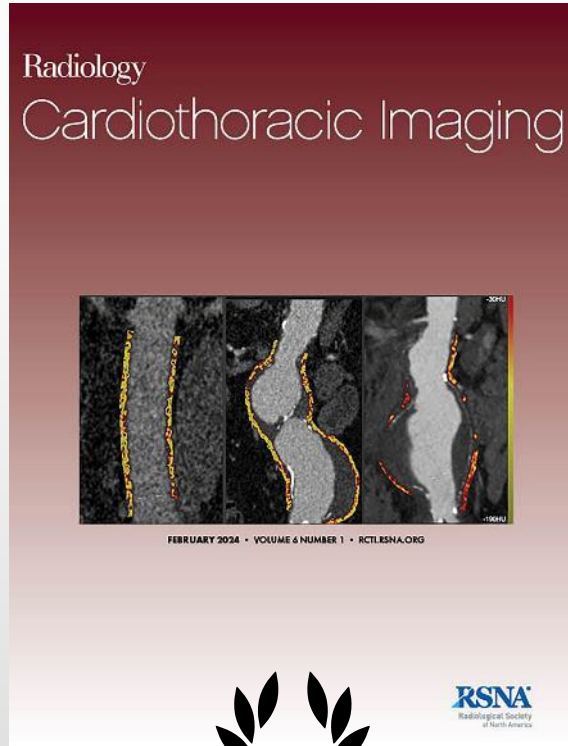
PATENT ISSUED US 11,860,256 B2

Cancellation of streak artifacts in radial abdominal imaging using interference null space projection (**CACTUS**)

Inventors: Zhiyang Fu, Maria Altbach, Ali Bilgin



CONGRATULATIONS



Evan Unger, MD
Professor Emeritus

- ▶ Dr. Unger received the RSNA Editor's Recognition Award for reviewing with Distinction from
- ▶ Radiology: Cardiothoracic Imaging
<https://pubs.rsna.org/doi/10.1148/ryct.240047>

PLENARY LECTURE



- ▶ Geoffrey Rubin, MD, MBA, FACR, FAHA, FSABI, FNASCI presented the Plenary Lecture during the European Society of Radiology ECR 2024.
- ▶ View Dr. Rubin's ECR 2024 plenary presentation in full on [YouTube](#)



RESIDENTS

JULY 1 2025

DR Resident  Noel Balli, DO AT Still University School of Osteopathic Medicine, Arizona	IR-Integ Resident  Daniel Kade Derrick, MD University of Texas Health Science Center of San Antonio	DR Resident  Sarah Fermawi, MD University of Arizona College of Medicine - Tucson	DR Resident  Dillon Haughton, DO Burrell College of Osteopathic Medicine	DR Resident  Nathan Holt, DO AT Still University School of Osteopathic Medicine, Arizona
DR Resident  Joan Hwang, DO AT Still University School of Osteopathic Medicine, Arizona	DR Resident  Brittney Le, DO Oklahoma State University Center for Health College of Osteopathic Medicine	DR Resident  Jaskirat Malhi, DO AT Still University School of Osteopathic Medicine, Arizona	DR Resident  Lawrence Matiski, MD University of Arizona College of Medicine - Tucson	DR Resident  Tyler Thornton, DO Univ of North Texas Health Science Center - TX Coll of Osteopathic Medicine



MATCH DAY
2024
Friday, March 15

WELCOME NEW RESIDENTS

- ▶ All residency positions were successfully filled during the main match.
- ▶ We are excited to welcome to our ten (10) new radiology residents for the Diagnostic Radiology and the Interventional Radiology-Integrated Residency Training Programs!
- ▶ Thanks to everyone who participated in the 2023-2024 Resident Interview process.



DIVERSITY CHAMPIONS RETREAT

- ▶ **Dr. Hina Arif, Dr. Sarah Placek and Dr. Rami Sulaiman** attended the DEI Restorative Justice training held on March 8.
- ▶ Presented by **Dr. Pedro Flores**, participants explored the history and philosophy of restorative justice (RJ), the three-tier continuum of restorative practices, introductory RJ facilitation skills, and the early outcomes of RJ implementation in healthcare and academic medicine.
- ▶ Inspired by their experience, the group plans to create restorative circles in Medical Imaging to build the power of community.



DIVERSITY CHAMPIONS RETREAT

Facilitated by

PEDRO L. FLORES
PhD, MAS, CCRP



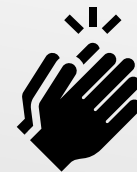
MARCH
8

2024 Diversity Champions Retreat

COMPLETED

REACCREDITATION

- ▶ The **Diagnostic-Radiology Residency** program was notified of their *Continued Accreditation* status. Approved for 36 Resident Positions, the program was commended for demonstrating substantial compliance with the program requirements without any new citations.
- ▶ The following **subspecialty programs** associated with DR were also unanimously approved receiving Continued Accreditation status.
 - ▶ Abdominal Radiology, 2 positions
 - ▶ Neuroradiology, 3 positions
 - ▶ Nuclear Radiology, 2 positions
 - ▶ Interventional Radiology – Independent (with continued accreditation as of 1/26/2023, this program is not due for review)
- ▶ The **Interventional Radiology - Integrated Residency** program was notified of their *Continued Accreditation* status. Approved for 5 Resident Positions, the program was commended for demonstrating substantial compliance with the program requirements without any new citations.

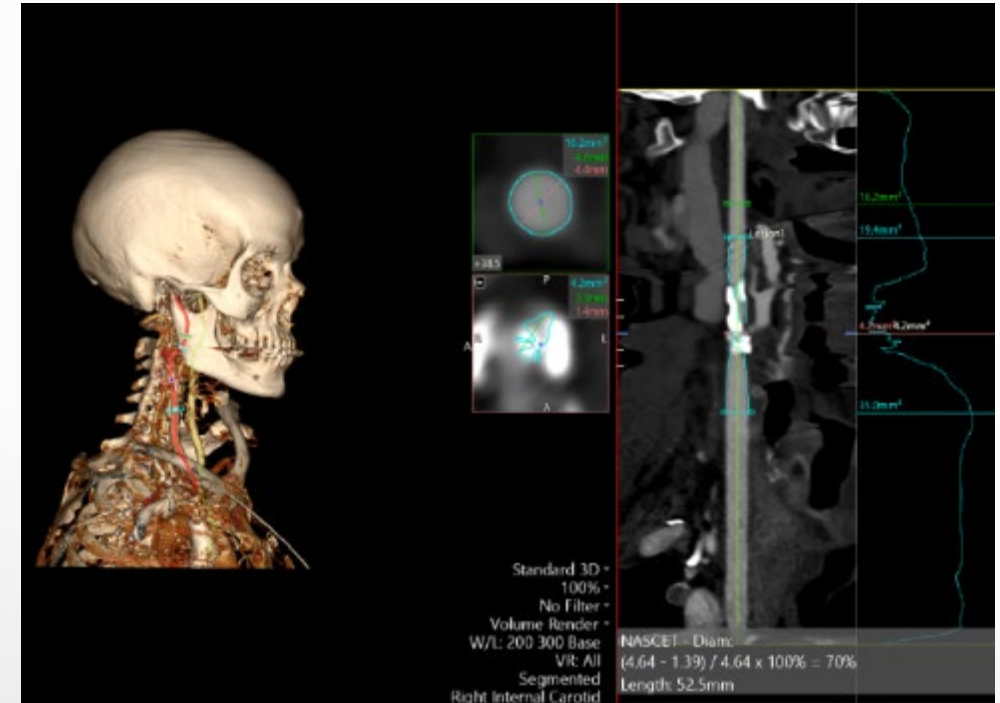


INNOVATION STORIES: NEURORADIOLOGY

The [Division of Neuroradiology](#) is making a dramatically positive impact on patient care in two distinct areas:

- ▶ **Pain Management:** The team commonly performs Interventional Pain Management procedures such as *Interlaminar Epidural*, *Transforaminal Epidural* and *Sacroiliac Joint Steroid Injections*, which provide more patients timely relief to often chronic and debilitating pain.
- ▶ **Improved Stroke Detection:** Implementation of cutting-edge technology (*Automated NASCET Calculation with Vitrea*), enables the division to provide better calculations related to carotid stenosis, resulting in better treatment options.

Other impactful contributions to patient care involve a new Lumbar MRI Survey, and the utilization of Post Contrast FLAIR on Brain Surface Enhancement. Plus, the division is working on implementing Bone MRI for work up of children with craniosynostosis, which may save these patients from unnecessary radiation exposure.



Automated NASCET Calculation with Vitrea

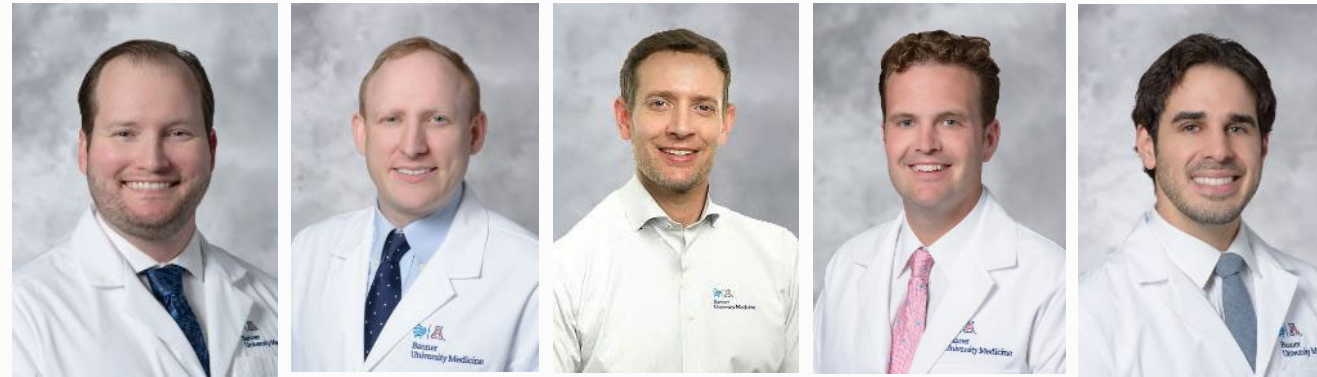
PUBLICATION

► Abstract No. 124 Sequelae of Splenic Embolization by Age: A Retrospective Analysis

J. Ref, E. Yee, **L. Struycken**, **D. Goldberg**, **G. Woodhead**, **S. Young** and **J. Hannallah**

March 2024 | Journal of Vascular and Interventional Radiology

DOI: [10.1016/j.jvir.2023.12.155](https://doi.org/10.1016/j.jvir.2023.12.155)



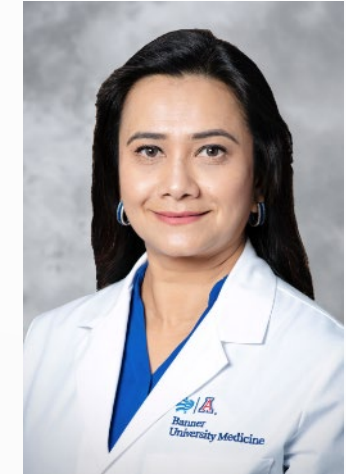
Lucas Struycken, MD, Dan Goldberg, MD , Greg Woodhead, MD, PhD, Shamar Young, MD, and Jack Hannallah, MD



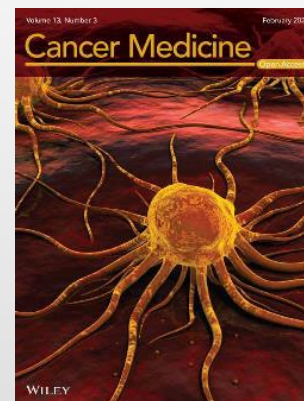
PUBLICATION

- ▶ Neighborhood social vulnerability and disparities in time to kidney cancer surgical treatment and survival in Arizona

Celina I. Valencia, Patrick Wightman, Kristin E. Morrill, Chiu-Hsieh Hsu, **Hina Arif-Tiwari**, Eric Kauffman, Francine C. Gachupin, Juan Chipollini, Benjamin R. Lee, David O. Garcia, Ken Batai
24 February 2024 | Wiley Online Library
<https://doi.org/10.1002/cam4.7007>



Celina Valencia, DrPH and Hina Arif-Tiwari, MD, FSAR



PUBLICATION

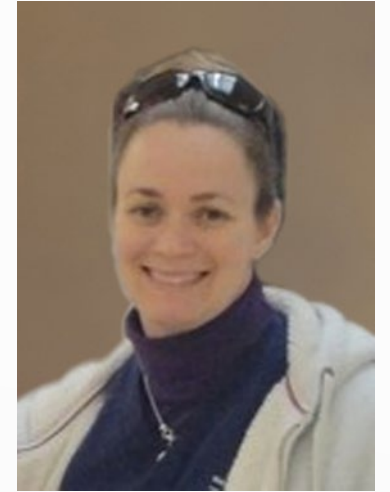
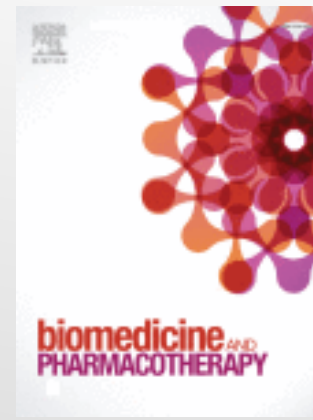
- ▶ An eNAMPT-neutralizing mAb reduces post-infarct myocardial fibrosis and left ventricular dysfunction

Zhonglin Liu ^{a,b}, Saad Sammani ^c, **Christy J. Barber** ^b, Carrie L. Kempf ^d, Feng Li ^a, Zhen Yang ^a, Rosendo T. Bermudez ^c, Sara M. Camp ^d, Vivian Reyes Herndon ^c, **Lars R. Furenlid** ^b, Diego R. Martin ^a, Joe G.N. Garcia ^d

January 2024

Biomedicine & Pharmacotherapy 170:116103

[DOI: 10.1016/j.biopha.2023.116103](https://doi.org/10.1016/j.biopha.2023.116103)



Lars Furenlid, PhD and Christy Barber

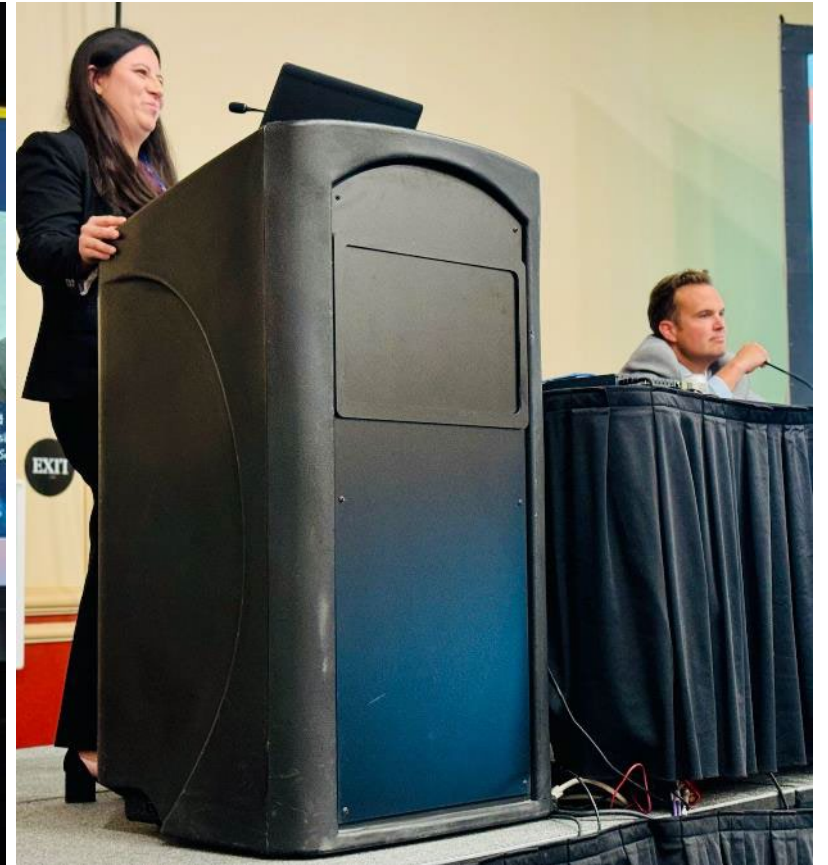
PUBLICATION

► Value Creation Through Artificial Intelligence and Cardiovascular Imaging: A Scientific Statement From the American Heart Association

Kate Hanneman, David Playford, Damini Dey, Marly van Assen, Domenico Mastrodicasa, Tessa S. Cook, Judy Wawira Gichoya, Eric E. Williamson, **Geoffrey D. Rubin** and on behalf of the American Heart Association Council on Cardiovascular Radiology and Intervention; and Council on Lifelong Congenital Heart Disease and Heart Health in the Young
Circulation Volume 149, Issue 66 February 2024
<https://doi.org/10.1161/CIR.0000000000001202>



Geoffrey D. Rubin, MD, MBA, FACR, FAHA, FSABI, FNASCI



Society of Interventional Radiology (SIR)
Annual Meeting 2024
March 23 - 28



SIR 2024

MARCH 23-28
SALT LAKE CITY

SIRpass the summit

3/23: General IR

Extreme IR: Soft Landing or Uncontrolled Freefall?

- Coordinator: **Michael D. Dake, MD**
University of Arizona



3/24: Interventional Oncology
Oncologic Liver Interventions 1

Moderator: **Shamar Young, MD**
University of Arizona



3/24: Interventional Oncology

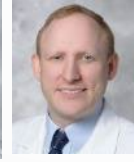
Preliminary Analysis of Radiomics for Y90 Outcome Prediction in Hepatocellular Carcinoma

Author/Co-author: **Navjit Dullet, DO**
University of Arizona (Class of 2023)



3/25: *Thermal ablation of hepatocellular carcinoma: Does it matter weather you use heat or cold?*

- Author/Co-author: **Shamar Young, MD**
University of Arizona
- Presenting Author: Tiffany Shamas, BS – UArizona
- Author/Co-author: **Lucas C. Struycken, MD** – UArizona, **Jack Hannallah, MD, MBA, MPH** – UArizona, **Daniel Goldberg, MD** – UArizona, **Gregory J. Woodhead, MD, PhD** – UArizona



3/25: Gastrointestinal Interventions

Endovascular Management of Visceral Vein Obstruction: Technical Consideration, and Factors Associated with Failure

- Author/Co-author: **Shamar Young, MD**
University of Arizona



3/25: Embolization 1

- Moderator: **Shamar Young, MD**
University of Arizona





SIR 2024 MARCH 23-28 SALT LAKE CITY

SIRpass the summit

3/25: Women's Health

Tubal catheterization with a miniature triple-modality optical falloposcope: A future IR procedure?

- Author/Co-author: Andrew Rocha, BS, College of Optical Sciences, UArizona, William Drake, BS, College of Optical Sciences, UArizona, Dominique Galvez, BS, College of Optical Sciences, UArizona, Photini Rice, MS – BME, UArizona, Mary Reed, MS – UArizona, **Lucas C. Struycken, MD** – UArizona, John Heusinkveld, MD – OB-GYN UArizona, Jennifer Barton, PhD – Dept. of Biomedical Engineering, UArizona



3/25: Arterial Interventions and Peripheral Arterial Disease (PAD) *Sequelae of Splenic Embolization by Age: A Retrospective Analysis*

- Presenting Author: **Erika Yee, BS**, UArizona, COMT
- Author/Co-author: **Lucas C. Struycken, MD** – UArizona, COMT, **Daniel Goldberg, MD** – UArizona, **Gregory J. Woodhead, MD, PhD** – UArizona, **Shamar Young, MD** – UArizona, **Jack Hannallah, MD, MBA, MPH** – UArizona



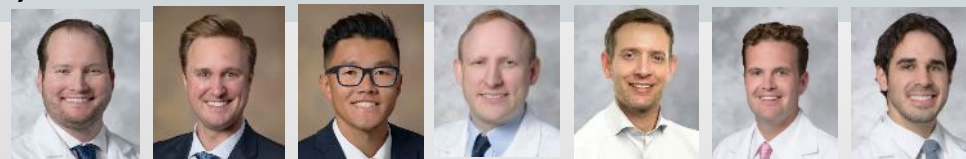
3/25: *Applications of Optical Coherence Tomography (OCT) in Interventional Radiology: An Educational Exhibit*

- Author/Co-author: Bradford J. Wood, MD, FSIR – NIH, **Lucas C. Struycken, MD** – UArizona, B-UMCT, Jennifer Barton, PhD – Dept. of Biomedical Engineering, UArizona



3/25: Arterial Interventions and Peripheral Arterial Disease (PAD) *Is Pedal Access The New Radial Access?*

- Abstract Presenter: Troy Weinstein, BS – UArizona COMT
- Author/Co-author: Jacob Ref, BS – UArizona, **Lucas C. Struycken, MD** – UArizona, COMT, David J. Schaub, BS – UArizona, Brandon Nguyen, BS, MS – UArizona COMT, **Conner Reynolds, DO** – UArizona, **Michael Lee, MD** – UArizona COMT, **Daniel Goldberg, MD** – UArizona COMT, **Gregory J. Woodhead, MD, PhD** UArizona COMT, **Shamar Young, MD** – UArizona COMT, **Jack Hannallah, MD, MBA, MPH** – UArizona





SIR 2024

MARCH 23-28
SALT LAKE CITY

SIRpass the summit

3/25: Interventional Oncology

The Perks and Pitfalls of the SEER/NCDB Databases In Supplementing Observational Research in the Field of Interventional Oncology

Abstract Presenter: David J. Schaub, BS – University of Arizona

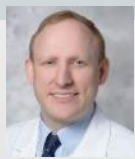
Author/Co-author: Jacob Ref, BS – UArizona, Troy Weinstein, BS –

UAirizona, Brandon Nguyen, BS, MS – UArizona, **Daniel Goldberg, MD**

– UArizona, **Jack Hannallah, MD, MBA, MPH** – UArizona, **Shamar**

Young, MD – UArizona, **Gregory J. Woodhead, MD, PhD** – UArizona,

Lucas C. Struycken, MD – UArizona



3/26: General IR

IR can survive as an independent clinical practice: Yes or No?

• Panelist: **Michael D. Dake, MD** (he/him/his)

University of Arizona



3/26: Portal Hypertension

Multicenter Prospective Registry Analysis of Current Practice Patterns in Transjugular Portosystemic Shunt (TIPS) Creation in North America

• Author/Co-author: **Shamar Young, MD**
University of Arizona



3/26: Portal Hypertension

Impact of Intracardiac Echocardiography on Portal Vein Access during TIPS Placement and its Effect on Outcomes: a Multicenter Prospective Registry Analysis

• Author/Co-author: **Shamar Young, MD**
University of Arizona



INTERACTIVE RESEARCH SEMINAR

March 20 | 1:00 pm | MRB 102

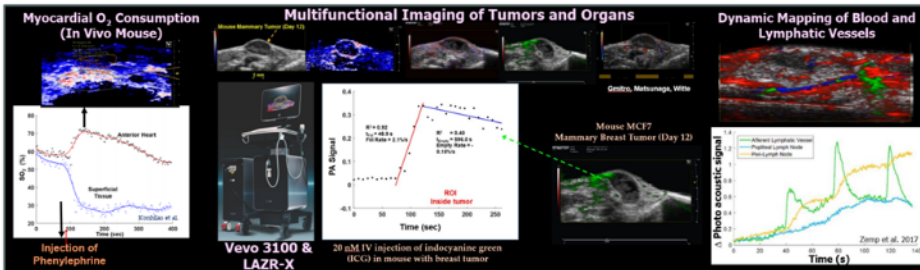
- ▶ New and exciting research projects on the Vevo 3100 + LAZR-X
- ▶ Learn more: HFUS Core Facility ([TBIR](#))

[Advanced Ultrasound & Photoacoustic Imaging for Your Research](#)

When/Where: Wed, March 20 at 1pm in MRB 102 (Interactive Seminar)

Who: Profs. Russell Witte and Terry Matsunaga on behalf of HFUS Core Team in BSRL

Why: Promote New Research Projects in Cardiac, Cardiovascular, Cancer Research and Beyond



- Mapping myocardial O₂ consumption
- Myocardial injury with microbubbles
- Vascular mapping of Vessels & Nodes
- Pharmacokinetics and Perfusion
- Multifunctional imaging of tumors
- Drug Discovery
- Smart contrast agents, nanotechnology
- Molecular biology

contact: rwitte@arizona.edu



Russell Witte, PhD and Terry Matsunaga, PhD

[HFUS Core Facility \(TBIR\)](#)

- Russell Witte PhD, Medical Imaging
- Beth Hutchinson, PhD, Biomed. Engineering
- Chris Banik PhD, Physiology
- Terry Matsunaga Pharm, Medical Imaging
- Nam Lee PhD, Pharmacology
- Jeff Pyun PhD, Chemistry
- Brenda Baggett (Manager)
- Andy Rouse, PhD (Director, TBIR)

STARFISH AWARDS

- ▶ The Autism Society of Southern Arizona's Jade Munsey presented two Starfish Awards to Medical Imaging staff members this month.
- ▶ The society's Starfish Award honors those who contribute to the autistic community.
- ▶ Maria Telles, PhD and Jennifer Fischahs are pictured with Jade, right.



RESIDENT SPOTLIGHT

Where do you call home?

I was born in Baltimore, Maryland and moved to Sooner State (Oklahoma) at a young age. I grew up in Tulsa enjoying the lakes and rolling hills, but lived in many places where the wind comes sweepin' down the plain. Ultimately, my family and I agree, home is where we make it and we have enjoyed our time in many different areas.

What is the best thing about the field of Radiology?

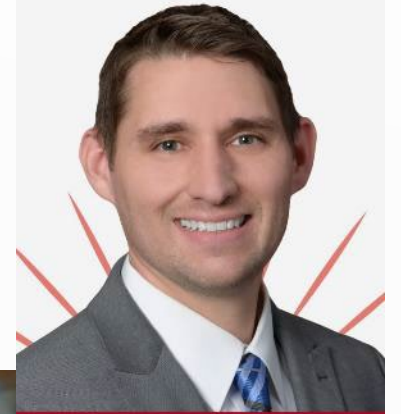
I enjoy the challenge of Radiology, evaluating cases and putting the pieces together to provide, or hope to provide, answers. I am excited about the opportunities and advancements being made in the field and look forward to being involved in translational research very soon.

What is on the horizon after graduation?

I'm excited about hopping on the I-10 and heading to Phoenix for a Breast Imaging Fellowship at Mayo Clinic.

Fun facts

- I have an amazing wife and four kids that brighten up the day. I enjoy family outings to the ZOO, swimming, aquariums, and parks.
- I enjoy being home with family playing games and watching movies, which is pretty amazing.
- I also enjoy snowboarding and I accept the fact that my wife is better (at it) than me.



David Supeck, DO, PhD
DR 4th Year



RESIDENT SPOTLIGHT



David McNeil, MD, PhD
IR-Integrated

Where do you call home?

The muddy banks of the Kalama River

What is the best thing about the field of Radiology?

Getting to work with my hands, rad-path correlation, being a patient facing radiologist

What is on the horizon after graduation?

Private practice in Santa Fe, NM

Fun facts

- I don't own a car- I bike everywhere in beautiful Tucson, AZ
- I have a wonderful 8-year-old daughter
- I had a high-risk exposure to simian B herpesvirus in Brooklyn NY and lived to tell the tale





Resident Group Photo 2023-2024

RESEARCH DAY

Research Day 2024 was a huge success!
 Thank you to our Keynote speaker,
 Meghan Lubner, MD, and
 many congratulations to the 16
 Diagnostic and Interventional Radiology
 Resident presenters!

**MEDICAL IMAGING
 Research Day 2024**

**March 29
 11:30 am**
 DuVal Auditorium

Luncheon followed by
 14 Radiology Resident Presentations
 with Keynote Speaker:
 Meghan Lubner, MD

**RESEARCH
 MEANS
 HOPE**
THE UNIVERSITY
 COLLEGE OF MEDICINE
 Medical Imaging

*** FACULTY APPRECIATION LUNCHEON ***

THE UNIVERSITY OF ARIZONA
 COLLEGE OF MEDICINE PUEBLO
 Medical Imaging

Nicholas Barney, MD	Lung Cancer Associated with Cystic Spaces
Anish Bhandari, MD	Comparative Analysis of Carotid Stenosis Quantification Methods
Caleb Boehler, DO	Extramedullary Plasmacytoma of the Maxillary Sinuses in a Patient with Multiple Myeloma
Tristan Cooper-Roth, DO	Declawed: A Review of Lesser Toe Deformities and Treatment
Zachary Fitzgerald, MD	Cryoablation in the Liver: How Accurately Does the Ice-ball Predict the Ablation Zone?
Kristin Jecius, MD	Baclofen Intrathecal Pump Catheter Tip Granuloma
Salil Kalarn, DO and Sarah Fermawi, MD	Can Pre-Therapy PSMA PET/CT Predict Response?
Michael Lee, MD	T1b Renal Cell Carcinoma: Is Cryoablation a Viable Option?
David Supeck, DO, PhD and Eric Miller, DO	Using Conductivity Imaging to Improve Specificity of DWI in Breast MRI
Sarah Placek, DO	Iatrogenic Pulmonary Artery Pseudoaneurysm after Mechanical Thrombectomy for Pulmonary Embolism
Conner Reynolds, DO	Utilizing DSC MR Perfusion Images for Evaluation of Hemorrhagic Transformation after Mechanical Thrombectomy with Heidelberg Grading and Comparison to SWI, GRE and CT
Sanjog Singh, MD	A Tale of Two Devices: Comparing Manual and Drill Bone Marrow Biopsy Devices
Evan Sommer, MD, MBA	Evaluation of the Accuracy and Efficiency of Virtual Reality Diagnosis of Pulmonary Embolism
RJ Wruble, DO	Benign Metastasizing Leiomyoma in the Right Ventricle and Lungs

March 30 Celebrating Doctors Day

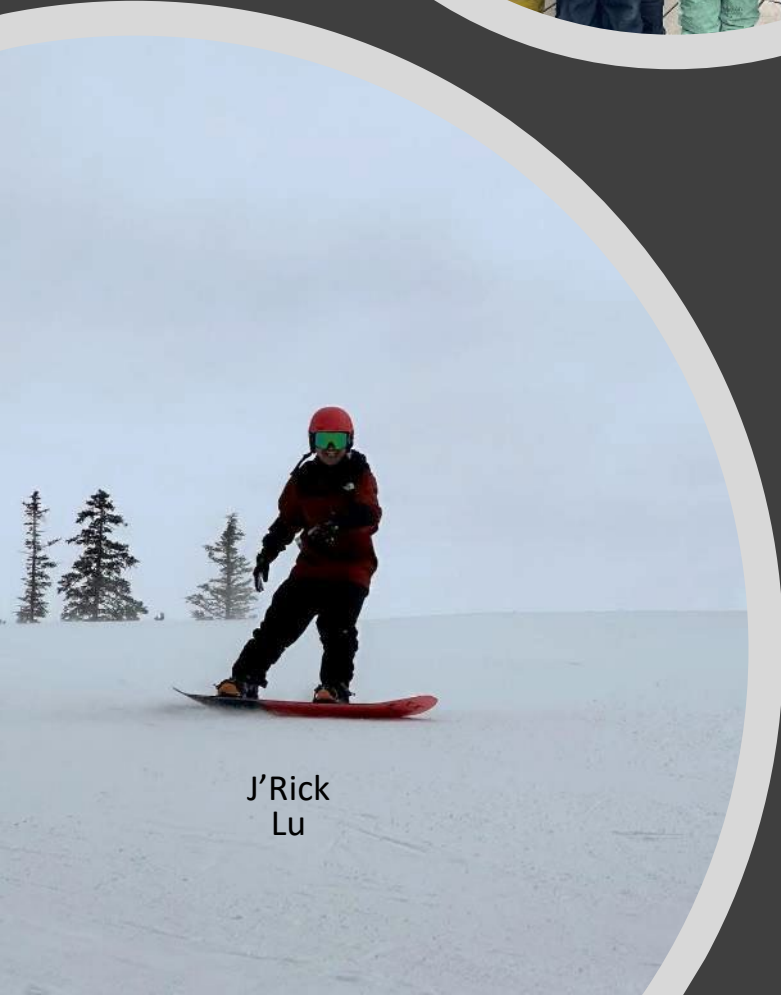
We applaud our clinical and research faculty for their many contributions and dedication to excellence.

MI hosted a faculty appreciation luncheon to launch Research Day 2024.





Stephen Davidson



J’Rick Lu

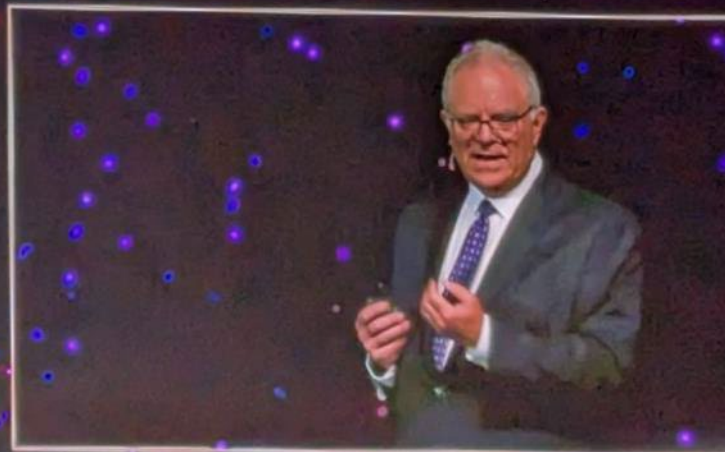
RESIDENT WELLNESS SKI/SNOWBOARD TRIP

Tyson Chadaz, MD, and the Wellness Committee organized a fun getaway to the mountains on March 23



ECR 2024

Plenary Lecture



Geoff Rubin, MD, MBA
presented the Plenary Lecture
during ECR 2024



Research Day + Faculty Appreciation Luncheon



Research Day + Faculty Appreciation Luncheon



Research Day 2024



One Weekend Outside of Tucson...



Residents **Mark Greenhill**, **Guillermo Alfonso**, **Stefano Natali** & **Phil Losada** met up with **Unni Udayasankar, MD** while in Las Vegas for a presentation. Coincidentally, **Dorothy Gilbertson MD** was there also, (though not pictured,) participating in a ballroom dance competition.