

R & R

RECOGNIZE &
REWARD

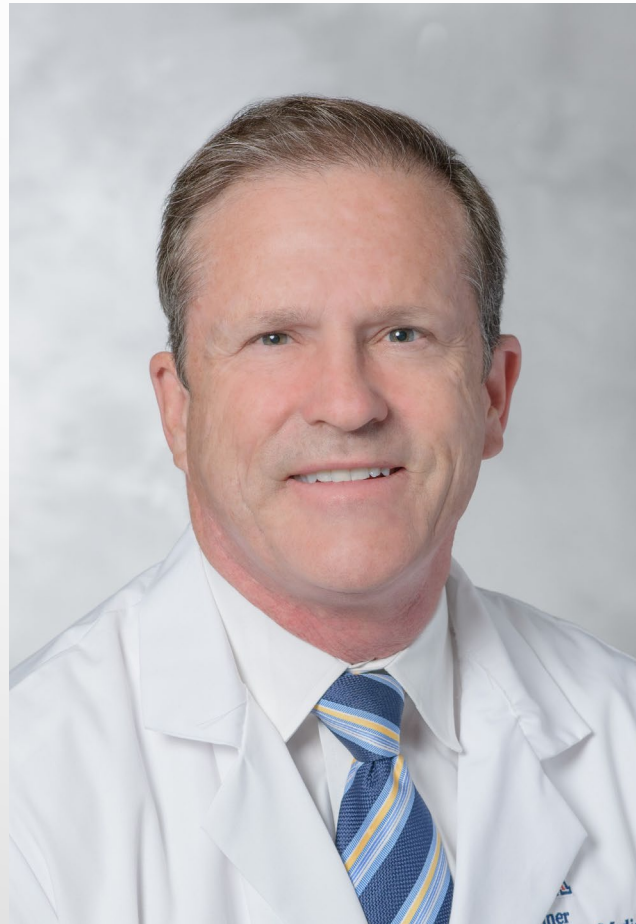
AUGUST 2023



Banner
University Medical Center
Tucson



THE UNIVERSITY OF ARIZONA
COLLEGE OF MEDICINE TUCSON
Medical Imaging



**CARDIOTHORACIC
IMAGING**

WELCOME RALPH DROSTEN, MD

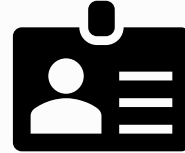
- ▶ **MEDICAL SCHOOL & RADIOLOGY RESIDENCY**
University of the Witwatersrand, Johannesburg, South Africa
- ▶ **RADIOLOGY FELLOWSHIP – THORACIC IMAGING**
Harvard Medical School, Brigham and Women’s Hospital, Boston MA
- ▶ **RADIOLOGY FELLOWSHIP – ONCOLOGIC IMAGING / PET**
Harvard Medical School, Brigham and Women’s Hospital, Boston MA
- ▶ **PROFESSOR**
Arizona State University, Dec 2016 – Jan 2021
Creighton University, Mar 2016 – Jan 2021
University of Arizona, Aug 2019 – Jan 2021
- ▶ **DIRECTOR OF RADIOLOGY**
Univ. of Arizona Cancer Center at St. Joseph’s, 2013-2020
Creighton University, Mar 2016 – Jan 2021
University of Arizona, Aug 2019 – Jan 2021
- ▶ **CHAIR OF RADIOLOGY**
Dignity Health St. Joseph’s Hospital, 2018-2021



WELCOME BRIAN LIGHTWINE, DO

- ▶ BACHELOR OF SCIENCE IN NURSING
Duke University, Durham, NC
- ▶ DOCTOR OF OSTEOPATHIC MEDICINE
Midwestern University, Phoenix, AZ
- ▶ RADIOLOGY RESIDENCY
University of Kansas, Wichita, KS
- ▶ FELLOWSHIP – PEDIATRIC DIAGNOSTIC RADIOLOGY
Phoenix Children’s Hospital, Phoenix, AZ

WELCOME TO THE TEAM



Sarah Ali Fermawi, MD, joined Medical Imaging as a Research Associate working with the Nuclear Medicine team.

Dr. Fermawi will provide research support for an array of clinical trials in the Nuclear Medicine Division.



JOINT APPOINTMENT BRIAN MILLER, PHD

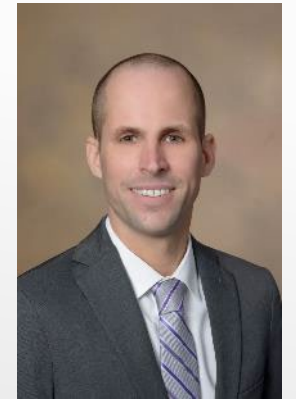
- ▶ PhD, University of Arizona,
College of Optical Sciences, 2011
- ▶ Postdoc at the University of Arizona,
Center for Gamma-Ray Imaging
- ▶ Linus Pauling Post-doctoral Fellowship at
Pacific Northwest National Laboratory
- ▶ Assistant Professor, Radiation Oncology
- ▶ Clinical responsibilities for external beam
radiation therapy





WELCOME, BABY GIRL!

Congratulations to the
Alfonso family!
Baby **Halle** arrived
healthy and strong
on July 28th



Guillermo Alfonso, DO
4th Year DR Resident
and proud Father

NIH GRANTS AWARDED



Lars Furenlid, PhD

- ▶ Grant number: 1UG3EB034686
- ▶ Program: BRAIN Initiative: Transformative Brain Noninvasive Imaging Technology Development
- ▶ Title: Development of a combined Gamma/Positron system for molecular imaging of the human brain at sub-500 micron spatial resolution
- ▶ PIs: **Lars Furenlid** (Contact PI, University of Arizona), Shiva Abbaszadeh (MPI, University of California at Santa Cruz), Michael King (MPI, University of Massachusetts)

- ▶ Grant number: 2R44EB029280
- ▶ Program: Phase II SBIR
- ▶ Title: The Rapid Production of High-Performance and Affordable Cadmium Telluride and Cadmium Zinc Telluride for Medical Imaging Applications
- ▶ PIs: Ben Montag (Contact PI, Radiation Detection Technologies, Inc.), **Lars Furenlid** (University of Arizona, MPI), John McCloy and Santosh Swain (Washington State University, MPIs)



NIH GRANT AWARDED

National Cancer Institute R01, 4-year Award

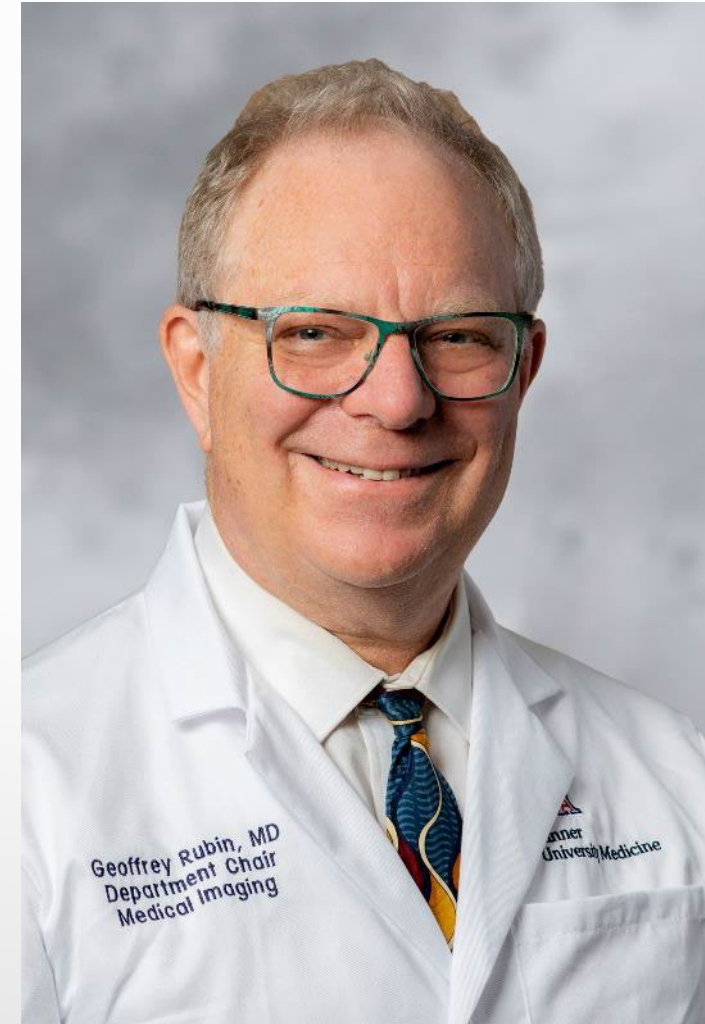
- ▶ Computer-Aided Triage of Body CT Scans with Deep Learning Principal

Investigators

- ▶ Joseph Lo, PhD, Duke University
- ▶ **Geoffrey Rubin, MD**, University of Arizona

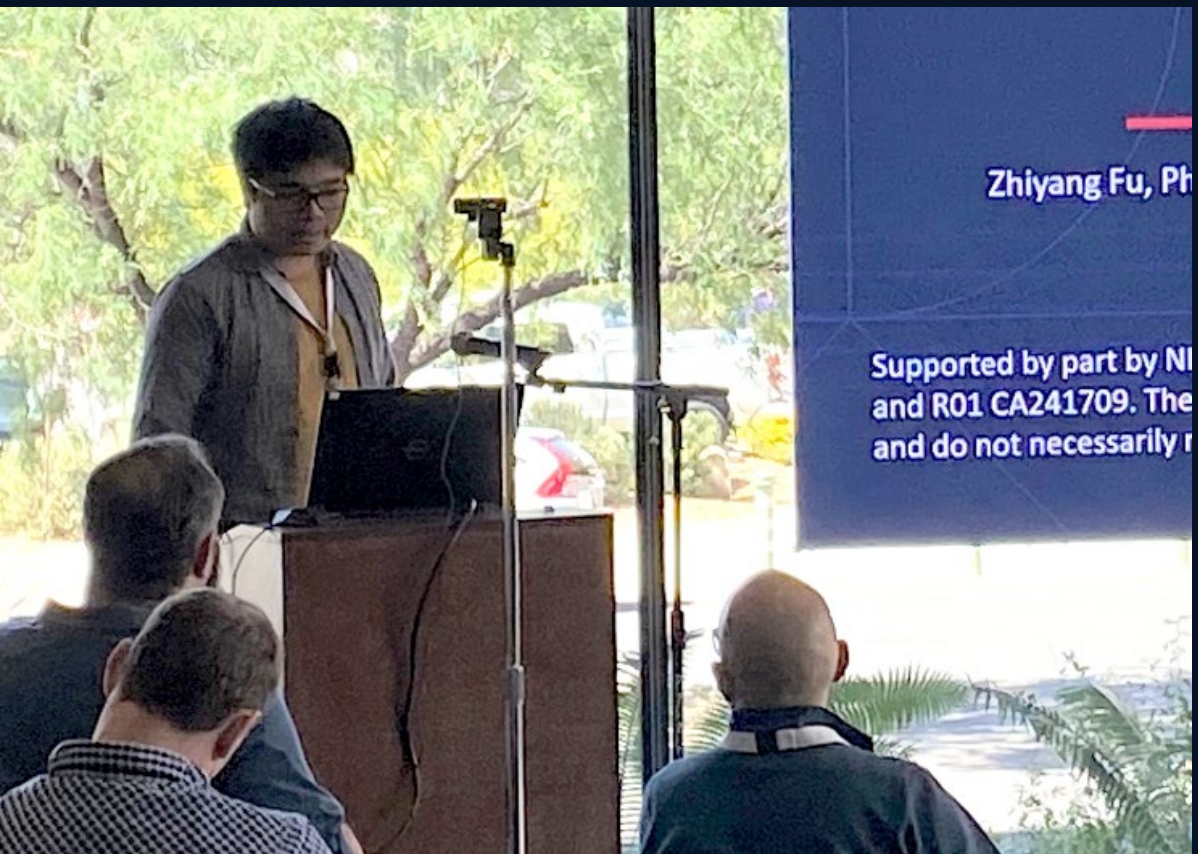
University of Arizona Co-Investigators

- ▶ Nirav Merchant, Director, Data Science Institute and Director, Cyber Innovation
- ▶ Ravi Tandon, PhD, Associate Professor, Electrical and Computer Engineering



Geoffrey Rubin, MD, MBA, FACR

CONGRATULATIONS TEAM!

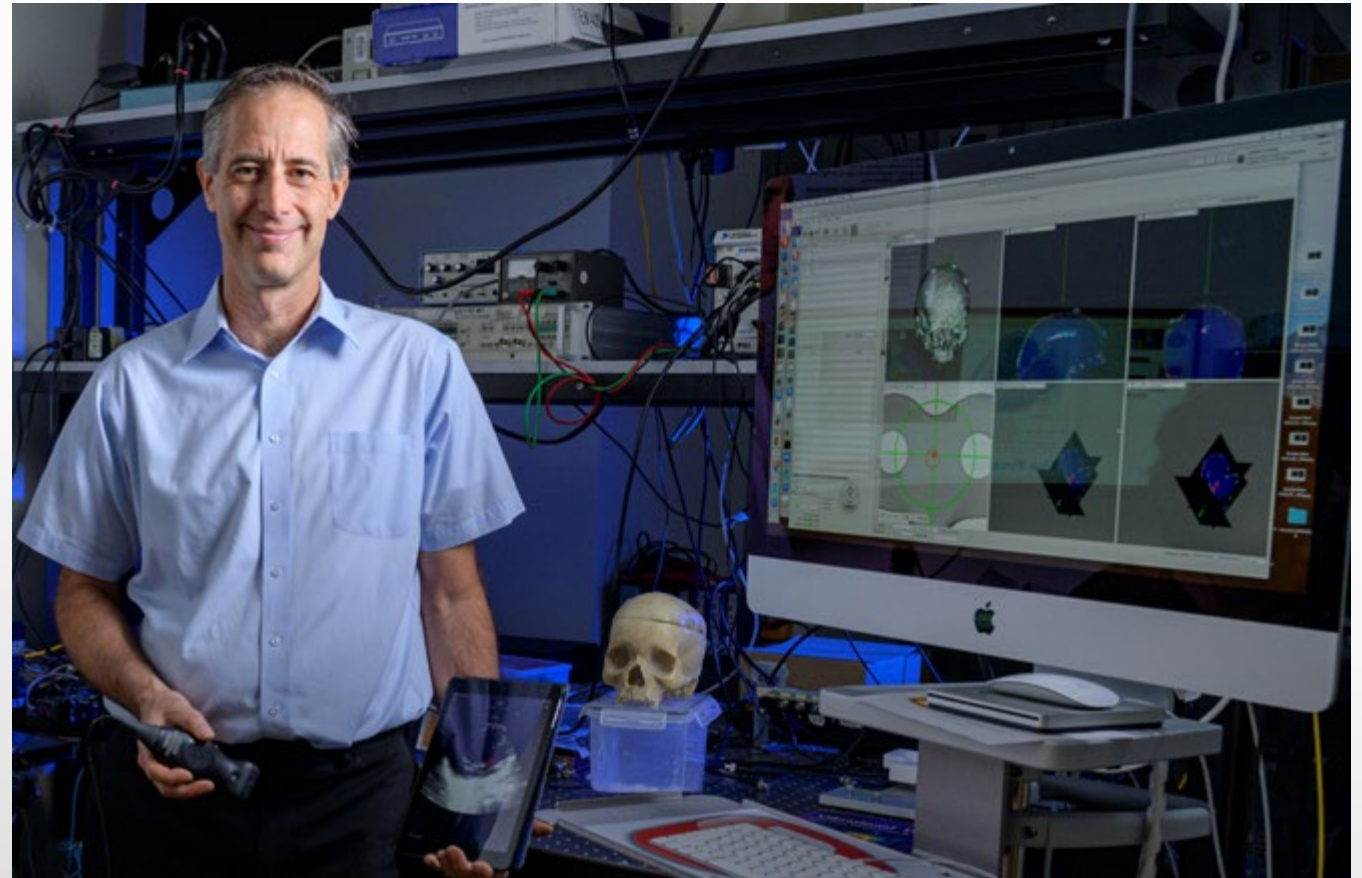


INVENTION

- ▶ Srinivasan Vedantham, PhD, Zhiyang Fu, PhD and Andy Tseng, PhD
- ▶ “Neural Field Algorithms for Computed Tomography Image Reconstruction”
- ▶ US Patent Application No. 63/522,658

CONGRATULATIONS RUSS WITTE, PHD

- ▶ New patent application, patent pending (UA23-222)
- ▶ "Systems and Methods for Closed-Loop Ultrasound and Photoacoustic Imaging"
- ▶ R.S. Witte, E. Reichel, C.M. Salinas, C. Curiel, D. Stratton



BANNER BLOG CONTRIBUTION



Dr. Aria is pictured in Tower 1 with Michele Dalmendray, Program Coordinator, Sr.

David Aria, MD, MBA shared his time and expertise with a publication about children & PICC lines.

Dr. Aria worked with Banner blog contributing writer Regan Olsson, to create the article "[My Child Needs a PICC: A Guide for Parents](#)"



bannerhealth.com

Your Child Needs a PICC Line, What to Know | Ban...
Peripherally inserted central catheters (PICC) can deliver intravenous fluid, nutrition or medicine. He...

CONGRATULATIONS - ITAR



Congratulations to 2nd Year DR Resident **Miles Seidel, MD**, selected for the RSNA/AUR/ARRS Introduction to Academic Radiology Program (ITAR).

Miles will attend the American Roentgen Ray Society (ARRS) Program, which will be held during the [ARRS Annual Meeting](#), May 5-9, 2024, in Boston, Massachusetts.



Inaugural IR Summer Mentorship Program Concludes



[Sean Lee, DO](#), successfully concluded his Society of Interventional Radiology sponsored Summer Medical Student [Internship Program](#) on August 11.

Sean is pictured with IR Faculty Greg Woodhead, Jack Hannallah, Shamar Young and Dan Goldberg

ANNUAL MEETING PRESENTATION

- ▶ Vice Chair of Research, **Lars Furenlid, PhD**, gave a **PLENARY PRESENTATION** during the International Society for Optics & Photonics August Conference
- ▶ “Recent Advances in X-ray, Gamma-Ray, and Charged-Particle Imaging” (Paper 12696-502)
- ▶ <https://spie.org/optics-photonics/event/x-ray-gamma-ray-and-particle-technologies-plenary/2681941>

SPIE. OPTICS+
PHOTONICS



Lars R. Furenlid, PhD

ANNUAL MEETING PRESENTATIONS

65th Annual Meeting of the American Association of Physicists in Medicine (AAPM)

- ▶ Fu Z*, Tseng HW, Vedantham S. An Attenuation Field Network reconstruction using short-scan and offset detector data for cone-beam breast CT.
- ▶ Larsen TC*, Tseng HW, Trinate R, Fu Z, Karellas A, Vedantham S. Joint optimization of x-ray spectrum and scintillator thickness used in the detector microcalcification detection in dedicated cone-beam breast CT.
- ▶ Trinate R*, Tseng HW, Larsen TC, Fu Z, Vedantham S. Objective physics-based image quality characterization of a low-noise, high-resolution, dedicated cone-beam breast CT using an offset detector.
- ▶ Tseng HW, Fu Z*, Vedantham S. Radiation dose reduction in cone beam breast CT using shorter x-ray pulse-width with a self-supervised deep learning algorithm.
- ▶ Tseng HW, Fu Z, Chiang JTA, Chow HHS, Vedantham S* Patient specific Mean Glandular Dose from a high-resolution dedicated cone-beam breast CT system with offset detector.



AAPM 2023
JULY 23-27 | HOUSTON, TX
65TH ANNUAL MEETING & EXHIBITION



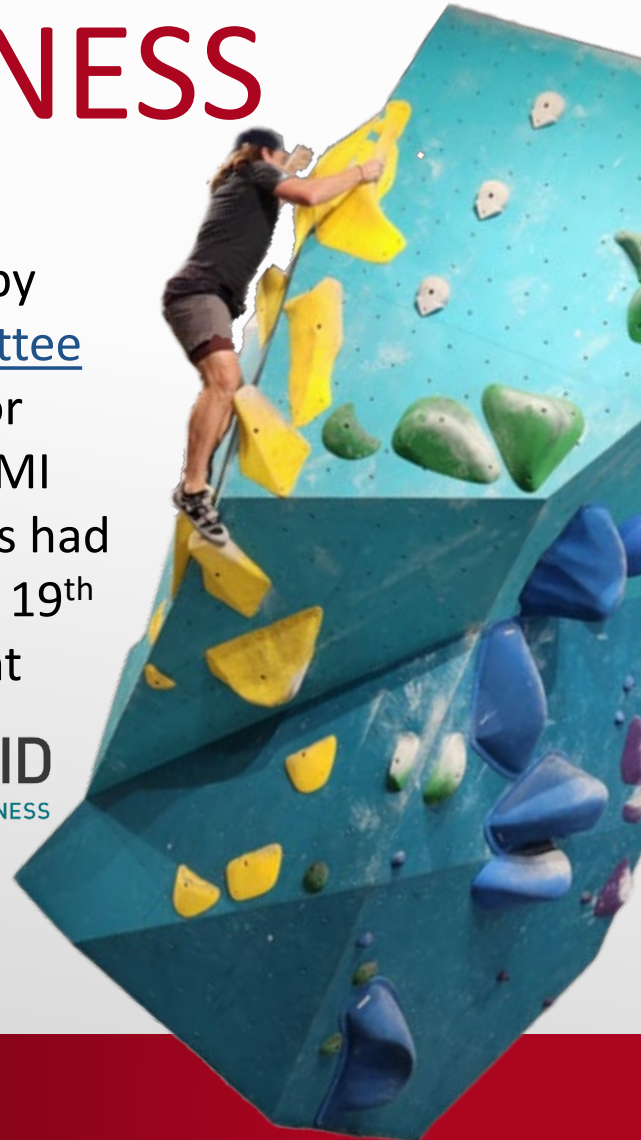
clockwise from top:
Vedantham S,
Tseng HW, Trinate R,
Fu Z, Chow HHS,
Larsen TC, Chiang JTA,
Karellas A

RESIDENT WELLNESS

Fearlessly led by
Wellness Committee

Faculty Advisor
Tyson Chadaz, MI
residents & friends had
fun at the August 19th
Wellness event

ROCK SOLID
CLIMBING+FITNESS



from left: Sarah Placek, Yasmeen Abdulrahman, Tyson Chadaz, Caleb Boehler, Andrew Nguyen, Salikh Murtazaliev, John Lee, Nick Barney, Austin Pickrell, and Noel Balli

APPRECIATION LUNCHEON



Our amazing Residency Program team was recognized during the GME Professionals Day Appreciation Luncheon held on August 18

Pictured from left :
Michele Dalmendray, Janet Black,
Ina Rios, Amy Jennings
and Nathan Medsker





THE BIG MOVE

- ▶ Medical Imaging is temporarily relocated to office spaces in the Health Science Innovation (HSIB) Basement
- ▶ The AHSC building 201 office space (in use for over 40 years) is set to be renovated
- ▶ Our new department home should be ready in Fall 2024

TAKING THE LEAD PODCAST



Geoffrey Rubin, MD, MBA, FACR
Chair and Professor, Medical Imaging

 @geoffrubin

BANNER-UNIVERSITY MEDICAL CENTER TUCSON RANKED BEST!



Banner – University Medical Center Tucson (B-UMCT) ranked #1 in Tucson and ranked #2 in Arizona!

This is the highest distinction a hospital can earn in U.S. News' Best Hospitals Procedures & Conditions ratings.



Ralph Drost, MD



Brian Lightwine, DO





Interventional Radiology Spirit



IR Clinical Research Coordinator, Intern and Residents



I
n
t
e
r
v
e
n
t
i
o
n
a
l



Packing up at
AHSC Bldg. 201
1343 Office Suites



Moving Day:
August 14



Members of the
Admin Team making
our move a reality



Resident
Wellness Event
August 19

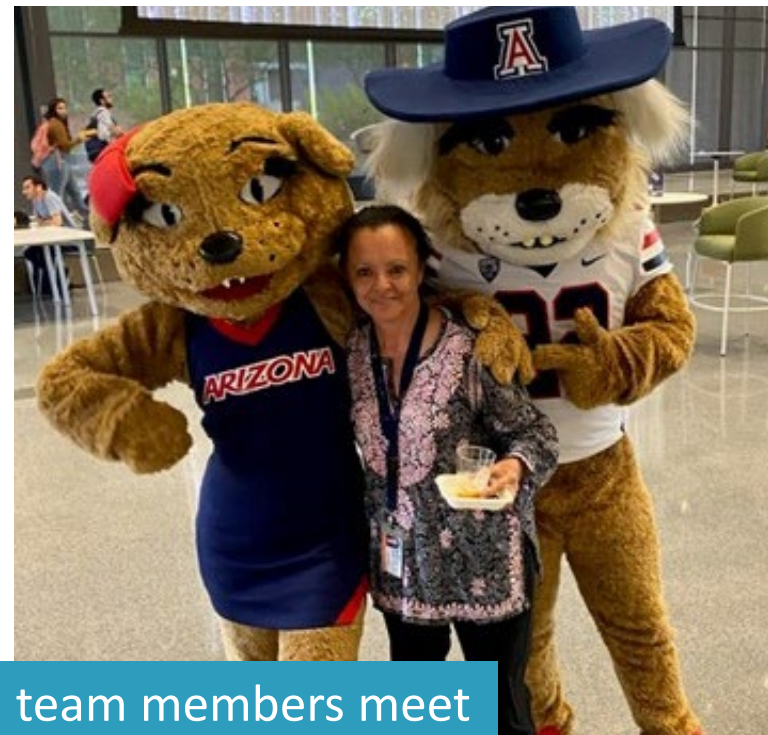


Wildcats! Wilbur, Wilma ...and *George!*

(Residency Program
Mascot, at home with
Senior Manager, Janet
Black)



Admin team members meet
Wilbur & Wilma at the HSIB



George the kitten