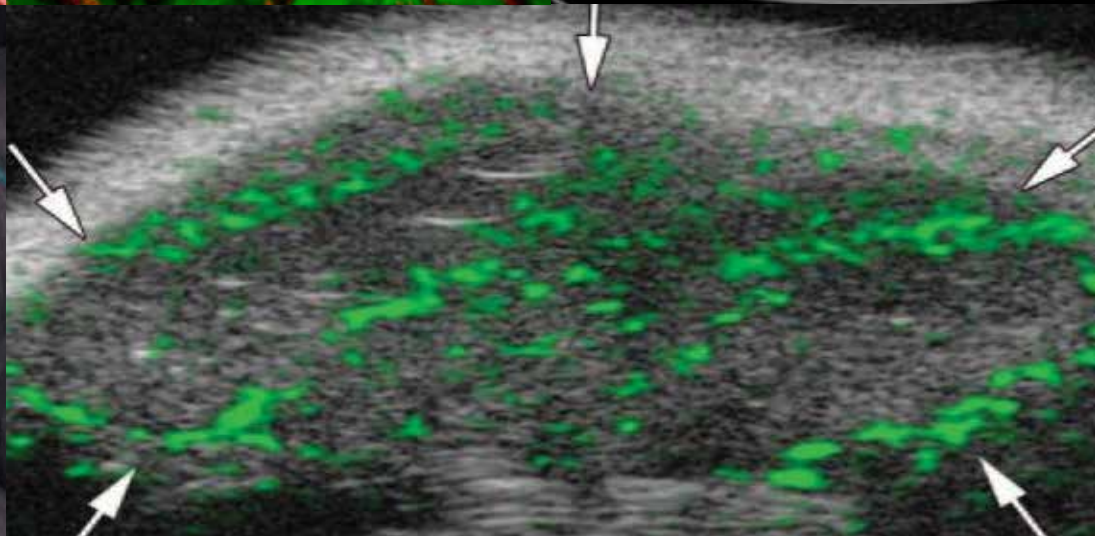
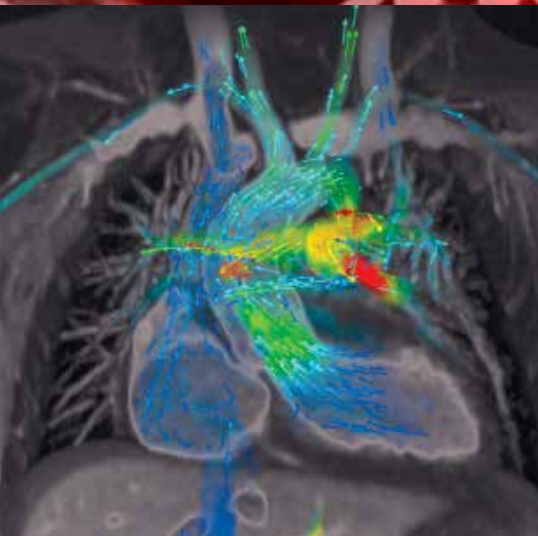
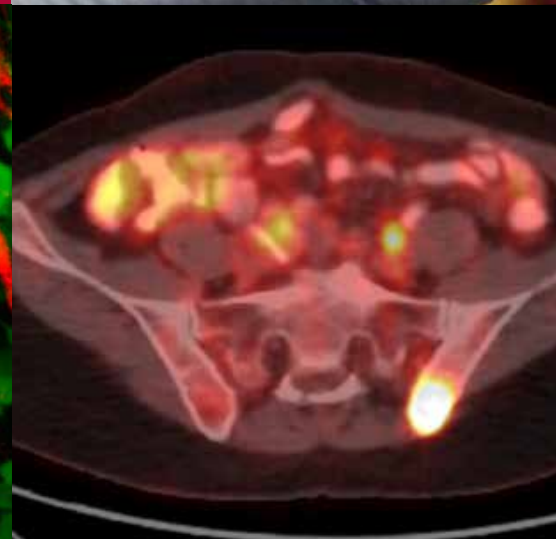
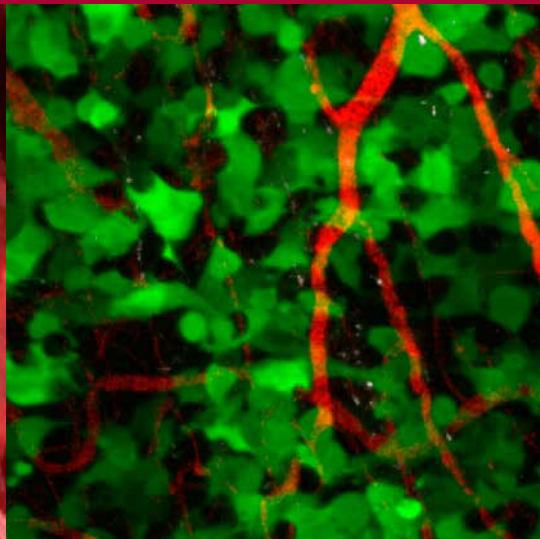
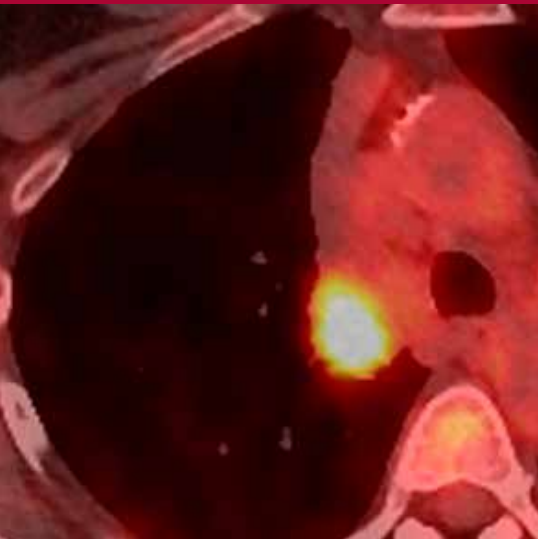
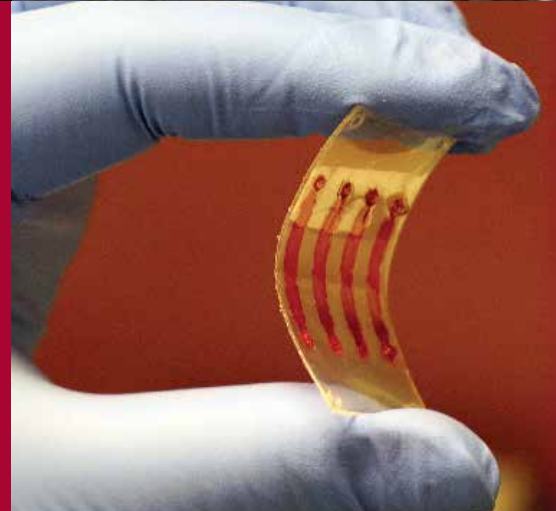


Stanford Radiology's Newest Pioneers 2015-2019

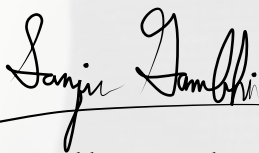


IT IS SAID THAT A UNIVERSITY IS “ETERNALLY YOUNG”,

a phenomenon that is the result of continuous refreshing with new students entering and graduating at all levels of education and training (undergraduate, graduate, post-doctoral, resident, and fellow). I feel Stanford is also eternally young because of the continuous revitalization of its most critical resource, the faculty. Without the incorporation of new faculty into the Department, there is no revitalization and little promise for future development and expansion into new and different directions. In this document, we present all faculty who have been recruited to Stanford Radiology over the period 2010-2015. As you will see, there is a great diversity of expertise and experience brought to Stanford University by the individuals selected.

I want to thank the many search committees for their tireless efforts that have helped to recruit to Stanford Radiology some of the best faculty in the world. It takes significant effort to implement all the steps of a thorough search including designing the search, outreach, interviewing faculty, making difficult decisions, convincing a given candidate to join the Department, and also completing the rigorous academic appointment administrative process. These academic appointments would not be possible without the efforts of many existing faculty and the Advancement & Promotions staff who have worked very hard to bring all of these recruits to Stanford. I also want to thank the new recruits who made the decision to join the Stanford Department of Radiology. Many of our newest faculty had several choices for their next professional home, and I am thankful for their trust in Stanford University, the School of Medicine, and for choosing to become a member of the Stanford Radiology family.

A Radiology Department can only achieve its multiple missions through the recruitment of great clinicians, educators, clinician-scientists, and basic scientists. We have recruited wonderfully talented individuals for each of these important categories with newcomers from all over the world to truly represent our growing global society. We are indeed well positioned for greatly impacting the future of healthcare together.



Sanjiv Sam Gambhir M.D., Ph.D.
Virginia and D. K. Ludwig Professor of Cancer Research
Chair, Department of Radiology



Contents

New Clinician-Scientists	2
New Basic Scientists	7
New Clinician Educators	18
New Adjunct Faculty	51
Faculty Leadership Announcements	52

Learn more

If you're interested in a more complete overall summary of the Stanford Department of Radiology, please visit our Web site to view our 2017-19 Annual Report.

<http://radiology.stanford.edu/about/annualreport>

The Annual Report includes a complete listing of Faculty appointments, descriptions of our translational research, our training programs, newly acquired equipment and space, along with detail about each of our clinical sections, research labs and listing of sponsored research.

New Clinician-Scientists

Raag Airan, MD, PhD | Neuroimaging & MIPS 2016



Assistant Professor

Raag Airan MD, PhD, joined our department in 2016 as an Assistant Professor, and leads a research effort in developing novel interventions for the nervous system using focused ultrasound and ultrasound-mediated drug delivery. In particular, he is developing a method for noninvasive local drug infusions using nanoparticles that release their drug cargo with ultrasound application. Dr. Airan is a clinical neuroradiologist at the Stanford Hospital. He completed his undergraduate degrees in mathematics and physics from MIT in 2003, and then his MD and PhD in Bioengineering at Stanford University in 2010. Following graduate and medical school, he completed a clinical residency in diagnostic radiology and fellowship in neuroradiology at Johns Hopkins before returning home to Stanford.

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Wendy DeMartini, MD | Breast Imaging 2016

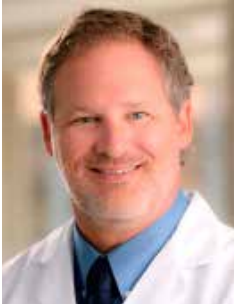


Professor and Division Chief, Breast Imaging

Dr. Wendy DeMartini joined our department in 2016, as a Professor and the Division Chief of Breast Imaging. She previously served as faculty at the University of Washington School of Medicine from 2004-2013, and at the University of Wisconsin School of Medicine and Public Health from 2013-2016. Her research is directed toward the appropriate evidence-based use of imaging tests to optimize the detection and evaluation of breast cancer. She has more than 100 research presentations, abstracts/publications, review articles or book chapters. Dr. DeMartini is also a sought-after educator and lectures on a broad spectrum of breast imaging topics nationally and internationally. She is the Co-Director of the American College of Radiology (ACR) Education Center Breast MRI with Biopsy Course. In addition, she was elected as a Society of Breast Imaging (SBI) Fellow in 2009, and served as SBI President from 2017-2018.

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Lane Donnelly, MD | Pediatric Radiology 2017



Professor and Chief
Quality Officer, LPCH

Lane F. Donnelly MD is currently Chief Quality Officer and Christopher G. Dawes Endowed Director of Quality at Lucile Packard Children's Hospital and Stanford Children's Health. He is also a Professor and the Associate Dean, Maternal and Child Health (Quality and Safety) in the School of Medicine at Stanford University. Former Leadership positions include Radiologist-in-Chief and Frederic N. Silverman Chair of Pediatric Radiology as well as Executive Cabinet member at Cincinnati Children's Hospital Medical Center (2002-2011); Chief Medical Officer / Physician-in-Chief at the Nemours Children's Hospital and Enterprise Vice President as well as Enterprise Radiologist-in-Chief for the Nemours Foundation (2011-2015); and Chief Quality Officer for Hospital Based Services at Texas Children's Hospital (2015-2017). Dr. Donnelly has been an NIH funded researcher, has published 270 peer review manuscripts and has authored multiple textbooks including *Pediatric Imaging: The Fundamentals*, a lead selling text book on pediatric imaging.

- Snyder EJ, Zhang W, Jasmin KC, Thankachan S, Donnelly LF. Gauging Potential Risk for Patients in Pediatric Radiology by Review of Over 2,000 Incident Reports. *Pediatr Radiol*. 2018 Dec;48(13):1867-1874.
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Donald Frush, MD | Pediatric Radiology 2018



Professor and Medical
Director of Clinical
Operations, LPCH

Donald P. Frush, MD, is currently Professor of Radiology, Stanford School of Medicine, and is Medical Director of Clinical Operations at Lucile Packard Children's Hospital at Stanford. Dr. Frush earned his undergraduate degree from the University of California, Davis, medical degree from Duke University Medical Center, was a pediatric resident at University of California, San Francisco, and completed a radiology residency at Duke Medical Center and a fellowship in pediatric radiology at Children's Hospital in Cincinnati. He is certified by the American Board of Radiology with additional certification in Pediatric Radiology. Dr. Frush's research interests are predominantly involved with pediatric body computed tomography (CT), including technology assessment, techniques for pediatric multidetector computed tomography (MDCT) examinations, assessment of image quality, and CT radiation dosimetry and radiation protection and risk communication in medical imaging. Other areas of investigation include CT applications in children and patient safety in radiology.

- Ria F, Davis JT, Solomon JB, Wilson JM, Smith TB, Frush DP, Samei E. Expanding the Concept of Diagnostic Reference Levels to Noise and Dose Reference Levels in CT. *AJR Am J Roentgenol*. 2019 Oct;213(4):889-894.
- Frush DP. The Value of Value. *Journal of the American College of Radiology*, pii: S1546-1440(19)30704-5, 2019.
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Jeremy Heit, MD, PhD | Neuroimaging & Neurointervention 2015



Assistant Professor

Dr. Jeremy Heit first joined the department in 2015 as a Clinical Instructor of Neuroimaging & Neurointervention, and was appointed as an Assistant Professor of Radiology in the Medical Center Line. He is a practicing neuro-interventional radiologist who specializes in treating stroke, brain aneurysms, brain arteriovenous malformations, brain and spinal dural malformations. His research seeks to advance our understanding of cerebrovascular disease and to develop new minimally invasive treatments for these diseases. He studies ischemic and hemorrhagic stroke, cerebral aneurysms, delayed cerebral ischemia, cerebral arteriovenous malformations (AVMs), dural arteriovenous fistulae, and other vascular diseases of the brain. He uses state-of-the-art neuroimaging techniques to non-invasively study these diseases. His research lab is developing future endovascular technologies to advance neurointerventional surgery.

- Sussman ES, Martin B, Mlynash M, Marks MP, Marcellus D, Albers G, Lansberg M, Dodd R, Do HM, Heit JJ. Thrombectomy for Acute Ischemic Stroke in Nonagenarians Compared with Octogenarians. *J Neurointerv Surg*. 2019 Jul 26. pii: neurintsurg-2019-015147.
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- Heit JJ, Mlynash M, Kemp SM, Lansberg MG, Christensen S, Marks MP, Ortega-Gutierrez S, Albers GW. Rapid Neurologic Improvement Predicts Favorable Outcome 90 Days after Thrombectomy in the DEFUSE 3 Study. *Stroke*. 2019 May;50(5):1172-1177.

Shivaani Kummar, MD | Molecular Imaging Program 2015



Professor

Dr Kummar obtained her medical degree from Lady Hardinge Medical College in New Delhi, India, and moved to the United States to train in Internal Medicine at Emory University in Atlanta, Georgia. Following this she was selected to pursue fellowship training at the National Institutes of Health in Medical Oncology and Hematology, which culminated in her being offered a faculty position at Yale University, New Haven CT. After spending four years as Assistant Professor of Medicine at Yale Cancer Center, Yale University School of Medicine, she moved back to the National Cancer Institute (NCI), NIH, as staff clinician in the Developmental Therapeutics Section. She developed a clinical research program in novel cancer therapeutics and in 2011 became Head of Early Clinical Trials Development in the Office of the Director, Division of Cancer Treatment and Diagnosis, NCI. She moved to Stanford University in 2015 as Professor of Medicine and Director of the Phase I Clinical Research Program. She now also serves as the co-Director of the Translational Oncology Program and the Medical Director of the Clinical and Translational Unit at Stanford. Her research interests focus on developing novel therapies for cancer, conducting pharmacokinetic and pharmacodynamic driven first-in-human trials. She serves on multiple national and international scientific committees, is the principal investigator of numerous early phase trials, and has published extensively in peer reviewed journals.

- Kurdziel KA, Mena E, McKinney Y, Wong K, Adler S, Sissung T, Lee J, Lipkowitz S, Lindenberg L, Turkbey B, Kummar S, Milenic DE, Doroshov JH, Figg WD, Merino MJ, Paik CH, Brechbiel MW, Choyke PL. First-in-Human Phase 0 Study of ¹¹¹In-CHX-A''-DTPA Trastuzumab for Her 2 Tumor Imaging. *J Transl Sci*. 2019 Apr;5(2).
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- A. Ribas, T. Medina, S. Kummar, A. Amin, A. Kalbasi, J.J. Drabick, M. Barve, G.A. Daniels, D.J. Wong, E.V. Schmidt, A.F. Candia, R.L. Coffman, A.C.F. Leung, R.S. Janssen. SD-101 in Combination with Pembrolizumab in Advanced Melanoma: Results of a Phase 1b, Multicenter Study. *Cancer Discov*, 2018.

Koen Nieman, MD, PhD | Cardiovascular Imaging 2016



Associate Professor

Dr. Koen Nieman joined the Departments of Radiology and Medicine in 2016 as an Associate Professor. He was on the faculty of the Departments of Cardiology and Radiology at the Erasmus University Medical Center (Rotterdam, The Netherlands) from 2008 to 2016. Dr. Nieman's research interest focuses on the development and implementation of novel imaging techniques for the management of patients with cardiovascular disease. Dr. Nieman serves on the editorial board of JACC Cardiovascular Imaging and is president-elect of the Society of Cardiovascular CT. Dr. Nieman received his MD at the University of Nijmegen, The Netherlands (1998); completed a clinical PhD on cardiac CT (2003), as well as his cardiology training at the Erasmus University in Rotterdam (2008). In 2004-2005, he spent a year at the Department of Radiology of the Massachusetts General Hospital in Boston as a visiting research fellow.

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Bhavik Patel, MD, MBA | Body Imaging 2017



Assistant Professor and
Director, Clinical Trials

Dr. Bhavik Patel joined the Department in 2017 as an Assistant Professor. Soon after joining, he was appointed as Director of Body CT and Director of Clinical Trials. He received his B.S. in Microbiology from the University of Alabama, MD from UAB School of Medicine, and did his internship at the Brigham and Women's Hospital. He returned to UAB for his diagnostic radiology residency, where he also served as Chief Resident. In 2012, he did his fellowship in body imaging at Stanford. From 2012-2015, he attended UCLA Anderson School of Management where he received his MBA. He practiced at Duke University as an Assistant Professor from 2013-2017, until he returned back to Stanford. He currently serves as a Core Affiliated Faculty of Artificial Intelligence in Medicine & Imaging Center (AIMI), Affiliated Faculty of Human-Centered Artificial Intelligence (HAI), Affiliated Faculty of Integrative Biomedical Imaging Informatics (IBIIS), Affiliated Faculty of Stanford BioX, and Associate Member of the Cancer Imaging and Early Detection Program of the Stanford Cancer Institute. His current research focuses on advanced imaging techniques and machine learning/artificial intelligence applications.

- Patel BN, Rosenberg L, Willcox G, Baltaxe D, Lyons M, Irvin J, Rajpurkar P, Amrhein T, Gupta R, Halabi S, Langlotz C, Lo E, Mammarrappallil J, Mariano AJ, Riley G, Seekins J, Shen L, Zucker E, Lungren M. Human-machine partnership with artificial intelligence for chest radiograph diagnosis. *NPJ Digit Med*. 2019 Nov 18;2:111.
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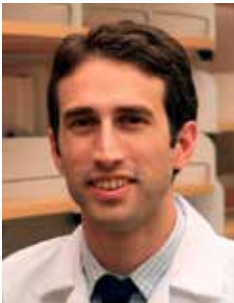
Vipul Sheth, MD, PhD | Body MRI & Body Imaging 2019



Dr. Vipul Sheth joined the department in 2019 as an Assistant Professor in Body MRI after completing his fellowship in Body MRI from Stanford University School of Medicine (2018). Dr. Sheth's research interests include imaging of tumor metabolism and the tumor microenvironment as well as MRI guided interventions. Dr. Sheth received his BSE in Biomedical Engineering in 2004, and his PhD (2011) and MD (2012) through the Medical Scientist Training Program at Case Western Reserve University. Dr. Sheth completed his internship at Akron General Hospital (2013) and his residency at the University of California San Diego in the Clinician Scientist Radiology Residency Program (2017).

Assistant Professor

Alexander Vezeridis, MD, PhD | Interventional Radiology 2019



Dr. Alexander Vezeridis joined the department in July 2019 as an Assistant Professor within the Section of Interventional Radiology. Dr. Vezeridis received his BA in Medical Science and Computer Science in 2003 as part of the Seven Year Accelerated Medical Program at Boston University. He received a PhD in Molecular Medicine in 2009, completing research on lipoproteins and apolipoproteins at Boston University's Whitaker Cardiovascular Institute. After receiving his MD from Boston University in 2011, Dr. Vezeridis completed an internship in general surgery at Beth Israel Deaconess Medical Center in Boston. Dr. Vezeridis was subsequently part of the NIH T32-funded research track residency in Radiology at UC San Diego, where he completed two years of post-doctoral research in nanotechnology and molecular imaging under the guidance of chemist Roger Tsien. After finishing residency in 2018, Dr. Vezeridis completed fellowship training in Vascular and Interventional Radiology at UC San Diego in 2019. Dr. Vezeridis' clinical work encompasses the full spectrum of interventional radiology, including interventional oncology, venous and arterial disease, portal hypertension, hepatobiliary disease, musculoskeletal/pain interventions, and genitourinary interventions including uterine fibroid embolization and prostate artery embolization. Dr. Vezeridis' research work focuses on molecular imaging and precision medicine as applied to interventional radiology, with a particular interest in targeted ultrasound contrast agents and novel applications of ultrasound technology within interventional radiology. In addition, with his background in computer science he has created clinical informatics systems for practice quality improvement in ultrasound and interventional radiology, and is interested in machine learning applications within interventional radiology.

Assistant Professor

New Basic Scientists

Corinne Beinat, PhD | Molecular Imaging Program 2019



Instructor

Dr. Corinne Beinat joined the department as an Instructor in 2019. Dr. Beinat received her Bachelor of Science in Chemistry and Pharmacology (2009) and PhD (2014) in Medicinal Chemistry from the University of Sydney, Australia. Dr. Beinat then completed her postdoctoral training in the lab of Dr. Sanjiv Sam Gambhir (2014-2019) where her research focused on the development of novel PET radiotracers for interrogating aberrant tumor metabolism. Her research is at the interface of radiochemistry, molecular imaging and neuro-oncology.

Carolyn Bertozzi, PhD | Molecular Imaging Program 2015



Professor

Dr. Carolyn Bertozzi joined the department in 2015 as a courtesy Professor in MIPS. Dr. Bertozzi completed her undergraduate degree in Chemistry at Harvard University and her Ph.D. at UC Berkeley, focusing on the chemical synthesis of oligosaccharide analogs. During postdoctoral work at UC San Francisco, she studied the activity of endothelial oligosaccharides in promoting cell adhesion at sites of inflammation. She joined the UC Berkeley faculty in 1996. A Howard Hughes Medical Institute Investigator since 2000, she came to Stanford University in June 2015, among the first faculty to join the interdisciplinary institute ChEM-H (Chemistry, Engineering & Medicine for Human Health). Named a MacArthur Fellow in 1999, Dr. Bertozzi has received many awards for her dedication to chemistry, and to training a new generation of scientists fluent in both chemistry and biology. Today, the Bertozzi Group at Stanford studies the glycobiology underlying diseases such as cancer, inflammatory disorders such as arthritis, and infectious diseases such as tuberculosis. The work has advanced understanding of cell surface oligosaccharides involved in cell recognition and inter-cellular communication.

Akshay Chaudhari, PhD | Radiological Sciences Laboratory 2018



Instructor

Dr. Chaudhari joined Stanford Radiology as a post-doctoral scholar in 2017 and subsequently transitioned to a Research Scientist, and now currently an Instructor in 2018. Dr. Chaudhari is appointed in the Radiological Sciences Laboratory and the Precision Health and Integrated Diagnostics sections. His research interests include using machine learning tools to develop efficient and safer medical imaging acquisition techniques, along with repeatable and accurate image analysis techniques, as well as an emphasis on multi-modality sensor fusion. He completed his Ph.D. from Stanford Bioengineering in 2017 focusing on rapid quantitative musculoskeletal MRI. He graduated with honors with a B.S. in Bioengineering from the University of California San Diego in 2012. Dr. Chaudhari is the winner of the International Society for Magnetic Resonance in Medicine Young Investigator Award and is also a Junior Fellow of the society.

- Chaudhari A, Fang Z, Kogan F, Wood J, Stevens K, Gibbons E, Lee J.H, Gold G, and Hargreaves B. Super-Resolution Musculoskeletal MRI Using Deep learning. *Magnetic Resonance in Medicine* (2018), 80(5):2139-2154.
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Joseph DeSimone, PhD | Molecular Imaging Program 2020



Professor

Dr. Joseph DeSimone will be joining the Division of MIPS in November 2020 as a Professor of Radiology and of Chemical Engineering. Dr. DeSimone previously served as the Chancellor's Eminent Professor of Chemistry at UNC and William R. Kenan Jr. Distinguished Professor of Chemical Engineering at NC State. He quickly achieved international recognition as a scientist, inventor, and entrepreneur, earning major accolades including the U.S. Presidential Green Chemistry Challenge Award and the Lemelson-MIT Prize. In 2016 President Obama awarded him the National Medal of Technology and Innovation, the highest honor in the U.S. for achievement and leadership in advancing technological progress. In 2013, Dr. DeSimone co-founded Carbon and served as the company's CEO until being named Executive Chairman in 2019. As CEO, he grew Carbon from a small team of scientists and engineers into a 500-person global company. In recognition of his entrepreneurial success at Carbon, Dr. DeSimone was recently recognized as EY's Entrepreneur of the Year 2019 National Overall winner. In 2020, Chemical & Engineering News named Carbon their Company of the Year. He is one of only roughly 20 individuals elected to all three U.S. National Academies—the National Academy of Sciences, the National Academy of Medicine, and the National Academy of Engineering.

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- Desimone JM, Guan Z, Elsbernd CS. Synthesis of fluoropolymers in supercritical carbon dioxide. *Science*. 1992 Aug 14;257(5072):945-7.

Gozde Durmus, PhD | Molecular Imaging Program 2019



Assistant Professor

Dr. Gozde Durmus has joined our department in February 1st, 2019 as an Assistant Professor. She conducted her postdoctoral research at Stanford; working at the Stanford Genome Technology Center. Dr. Durmus's research focuses on developing new cross-disciplinary platforms, tools and technologies to investigate to detect and investigate circulating biological signatures, rare cells and biomarkers from biological fluids for precision medicine. Her work has led to the first demonstration of magnetic levitation and sorting of single cells with broad applications in biology and medicine, such as, label-free detection of circulating tumor cells (CTCs) from blood; high-throughput drug screening; and rapid detection and monitoring of antibiotic resistance in real-time. For her work in technology development, she was named one of the "World's Top 35 Innovators under the Age of 35 (TR35)" by the MIT Technology Review in 2015. She received the Career Award at Scientific Interface from Burroughs Wellcome Fund (BWF-CASI) in 2018. She has been named as a "Rising Star in Biomedicine" by Broad Institute of MIT and Harvard. She was also selected as an Outstanding Young Persons of the World, by the Junior Chamber International (JCI) in the Medical Innovation Category. She received her Ph.D. degree in Biomedical Engineering from Brown University in May 2013, with a minor in Innovation Management and Entrepreneurship. She is also an alumna of the Ignite Program at the Stanford University Graduate School of Business. She was a Fulbright Scholar at Boston University and received her M. Eng. Degree in Biomedical Engineering as a College of Engineering Fellow in 2009. She received her B.S. degree in Molecular Biology and Genetics from Middle East Technical University (METU) in 2007. Her work has been translated to start-up companies, including LEVITAS.

Ahmed El Kaffas, PhD | Molecular Imaging Program 2018



Instructor

Dr. Ahmed El Kaffas joined the department in 2015 as a postdoctoral fellow in Dr. Juergen Willmann's laboratory, and was promoted to an instructor role within the Body Imaging Division in late 2017. His research interests are in tissue characterization with raw imaging signal data using statistical modelling and machine learning, with a special focus on ultrasound. He is also keenly interested in mechanoacoustic forces generated by ultrasound-stimulated microbubbles, and resulting mechanotransduction. Dr. El Kaffas received his B.Eng in Electrical Engineering (2005), and his M.Sc. in Physics (2008), and soon after his Ph.D. (2014) in the imaging sciences through the Department of Medical Biophysics at the University of Toronto and the Sunnybrook Research Institute.

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Katherine Ferrera, PhD | Molecular Imaging Program 2018



Professor

Katherine Ferrera joined Stanford as a Professor of Radiology in 2018. She is a member of the National Academy of Engineering and a fellow of the American Institute of Medical and Biological Engineering, IEEE, American Association for the Advancement of Science, Biomedical Engineering Society, the Acoustical Society of America, and the World Molecular Imaging Society. Dr. Ferrera's initial academic training was in biology. She followed this with training as a physical therapist, 4 years of clinical experience and a second BS, MS and PhD in engineering. Early in her career, she was a project engineer for General Electric Medical Systems and contributed to the design of early magnetic resonance and ultrasound systems. Following an appointment as an Associate Professor in the Department of Biomedical Engineering at the University of Virginia, Charlottesville, she served as the founding chair of the Department of Biomedical Engineering at UC Davis, now a department of 33 faculty members. Her laboratory is known for early work in aspects of ultrasonics and has more recently expanded their focus to broadly investigate molecular imaging and drug delivery. Dr. Ferrera's laboratory has received numerous awards including the Achievement Award from the IEEE Ultrasonics, Ferroelectrics and Frequency Control Society, which is the top honor of this society.

- Seo JW, Tavaré R, Mahakian LM, Silvestrini MT, Tam S, Ingham ES, Salazar FB, Borowsky AD, Wu AM, Ferrara KW. CD8 T-Cell Density Imaging with ⁶⁴Cu-Labeled Cys-Diabody Informs Immunotherapy-Related Protocols. *Clin Cancer Res.* 2018 Oct 15;24(20):4976-4987.
- Chavez M, Silvestrini MT, Ingham ES, Fite BZ, Mahakian LM, Tam SM, Ilovitsh A, Monjazeb AM, Murphy WJ, Hubbard NE, Davis RR, Tepper CG, Borowsky AD, Ferrara KW. Distinct Immune Signatures in Directly Treated and Distant Tumors Result from TLR Adjuvants and Focal Ablation. *Theranostics.* 2018 Jun 7;8(13):3611-3628.
- Kakwere H, Ingham ES, Allen R, Mahakian LM, Tam SM, Zhang H, Silvestrini MT, Lewis JS, Ferrara KW. Unimicellar Hyperstars as Multi-Antigen Cancer Nanovaccines Displaying Clustered Epitopes of Immunostimulating Peptides. *Biomater Sci.* 2018 Nov 1;6(11):2850-2858.

Brett Fite, PhD | Molecular Imaging Program 2018



Instructor

Dr. Brett Fite joined the department in 2018 as an Instructor. Dr. Fite received his BA in Physics and Chemistry from Washington University in St. Louis (2003) and his PhD in Biophysics from the University of California Davis (2013). Dr. Fite completed a postdoctoral fellowship in the Department of Biomedical Engineering at the University of California Davis (2016) where he later worked as an Assistant Project Scientist until joining the Stanford Radiology in 2018.

- Ilovitsh A, Fite BZ, Ilovitsh T, Ferrara KW. Acoustic radiation force imaging using a single-shot spiral readout. *Phys Med Biol.* 2019 Jun 10;64(12):125004.
- Ilovitsh T, Ilovitsh A, Foiret J, Caskey CF, Kusunose J, Fite BZ, Zhang H, Mahakian LM, Tam S, Butts-Pauly K, Qin S, Ferrara KW. Enhanced microbubble contrast agent oscillation following 250kHz insonation. *Sci Rep.* 2018 Nov 5;8(1):16347.

Josquin Foiret, PhD | Molecular Imaging Program 2018



Instructor

Dr. Josquin Foiret joined the department in 2018 as an Instructor with the Molecular Imaging Program at Stanford. Dr. Foiret's research interest focuses on medical applications of ultrasound both for imaging and therapy, in particular the development of new imaging methods with large arrays and high-throughput systems and the use of ultrasound contrast agent for drug and gene delivery. Dr. Foiret received his MS (2009) in Physical Acoustics from the Denis Diderot University and PhD (2013) from Pierre and Marie Curie University in Paris, France. Dr. Foiret joined the department of Biomedical Engineering at UC Davis as a Postdoc (2013-2016) and later as an Assistant Project Scientist (2016-2018).

- Bez M, Foiret J, Shapiro G, Pelled G, Ferrara KW, Gazit D. Nonviral Ultrasound-Mediated Gene Delivery in Small and Large Animal Models, *Nature Protocols*. *Nat Protoc*. 2019 Apr;14(4):1015-1026.
- Tucci ST, Kheirloom A, Ingham ES, Mahakian LM, Tam SM, Foiret J, Hubbard NE, Borowsky AD, Baikoghli M, Cheng RH, Ferrara KW. Tumor-specific delivery of gemcitabine with activatable liposomes. *J Control Release*. 2019 Sep 10;309:277-288.
- Ilovitsh T, Ilovitsh A, Foiret J, Caskey CF, Kusunose J, Fite BZ, Zhang H, Mahakian LM, Tam S, Butts-Pauly K, Qin S, Ferrara KW. Enhanced microbubble contrast agent oscillation following 250kHz insonation. *Sci Rep*. 2018 Nov 5;8(1):16347.

Sharon Hori, PhD | Molecular Imaging Program & Canary Center 2016



Instructor

Sharon Hori, PhD, joined the department in 2016 as an Instructor of Radiology in the Molecular Imaging Program at Stanford (MIPS) and the Canary Center at Stanford for Cancer Early Detection. She received BS degrees in Cybernetics and Applied Mathematics and MS and PhD degrees in Biomedical Engineering from the University of California, Los Angeles (UCLA), and completed her postdoctoral training through the NCI-funded Stanford Molecular Imaging Scholars (SMIS) Program. Dr. Hori's research combines biological, imaging, and mathematical modeling methodologies to improve the early detection and monitoring of aggressive cancers in asymptomatic and high-risk patients. Her work has been featured on the cover of *Science Translational Medicine* and her lab now aims to integrate preclinical and clinical diagnostics with quantitative methods to assess disease state and prognosis

- Hori SS, Lutz AM, Paulmurugan R, Gambhir SS. A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers. *Cancer Res*. 2017 May 15;77(10):2570-2584.

Michelle James, PhD | Molecular Imaging Program 2017



Assistant Professor

Dr. James joined the Department of Radiology in 2017 as an Assistant Professor with a joint appointment in the Department of Neurology and Neurological Sciences. Dr. James' research is focused on developing new positron emission tomography (PET) radioligands for visualizing the neuroinflammatory component of Alzheimer's disease, multiple sclerosis, and chronic pain with the goal of learning about the in vivo role, spatiotemporal dynamics, and different functional phenotypes of specific innate and adaptive immune cells in these diseases. As part of her work, Dr. James has multiple patented radioligands for imaging brain diseases, four of which are currently being used in humans. She received her BS in pharmacology and medicinal chemistry at the University of Sydney (2001-2004), where she also earned her PhD in radiochemistry/pharmacology (2005-2008). Subsequently she completed her postdoctoral training in the molecular imaging program at Stanford (MIPS) 2008-2013, and was appointed as an Instructor in Radiology and Neurology (2013-2016).

- Cropper HC, Johnson EM, Haight ES, Cordonnier SA, Chaney AM, Forman TE, Biswal A, Stevens MY, James ML, Tawfik VL. Longitudinal TSPO-PET Imaging of Peripheral and Central Myeloid Cells in a Mouse Model of Complex Regional Pain Syndrome. *Pain*. 2019 Sep;160(9):2136-2148.
- Chaney A, Cropper HC, Johnson EM, Lechtenberg KJ, Peterson TC, Stevens MY, Buckwalter MS, James ML. 11C-DPA-713 versus 18F-GE-180: A Preclinical Comparison of TSPO-PET Tracers to Visualize Chronic Neuroinflammation in a Mouse Model of Ischemic Stroke. *J Nucl Med*. 2019 Jan;60(1):122-128.
- James ML, Hoehne A, Mayer AT, Lechtenberg K, Moreno M, Gowrishankar G, Ilovich O, Natarajan A, Johnson EM, Nguyen J, Quach L, Han M, Buckwalter M, Chandra S, Gambhir SS. Imaging B Cells in a Mouse Model of Multiple Sclerosis using 64Cu-Rituximab-PET. *J Nucl Med*. 2017 Nov;58(11):1845-1851.

Louise Kiru, PhD | Molecular Imaging Program 2020



Instructor

Dr. Louise Kiru joined our department as a Postdoctoral Research Scholar in 2019 and she was appointed as an Instructor in the Pediatric Molecular Imaging Program in 2020. She obtained her BSc in Medical Biochemistry from University of Leicester (2010) and MRes degree in Biomedical Research from Imperial College London (2012). In 2016, Dr. Kiru received her PhD from University College London (UCL), where she worked on imaging cells using Single Photon Emission Computed Tomography (SPECT) and Positron Emission Tomography (PET). Her research interests are in developing cellular imaging strategies to monitor therapeutic cells in vivo as well as evaluating the interactions between tumor cells and the immune system. She is specifically interested in studying gender disparities that might lead to differences in tumor biology and therapy responses. In 2017, Dr. Kiru was awarded the Women in Molecular Imaging Network Scholar award from the World Molecular Imaging Society.

- Nejadnik H, Jung K, Theruvath AJ, Kiru L, Liu A, Wu W, Sulchek T, Pratz G, Daldrop-Link HE. Instant labeling of therapeutic cells for multimodality imaging. *Theranostics*. 2020.
- Türkan S*, Kiru L*, Naczynski D, Sasportas L & Pratz G. Lactic acid accumulation in the tumor microenvironment suppresses [18F]FDG uptake. *Cancer Research* 2019. Jan 15;79(2):410-419.
- Harris K, Armstrong SP, Campos-Pires R, Kiru L, Franks NP and Dickinson R. Neuroprotection against traumatic brain injury by Xenon is mediated by inhibition at the NMDA receptor. *Anesthesiology*. 2015 2018 Apr 15;35(8):1037-1044.

Feliks Kogan, PhD | Musculoskeletal Imaging 2017



Assistant Professor

Dr. Feliks Kogan joined the department as an instructor in 2017 and was promoted to Assistant Professor in musculoskeletal radiology in 2019. His research is focused on novel methods to image musculoskeletal function and disease in order to detect early and reversible pathology and improve patient outcomes. Dr. Kogan received a BS in Optics and Applied Math from the University of Rochester (2007), a Ph.D in BioEngineering from the University of Pennsylvania as a Howard Hughes Interface Fellow (2013), and completed a postdoctoral fellowship at Stanford University (2015). He is a junior fellow of the International Society for Magnetic Resonance in Medicine and a member of Council of Early Investigators in Imaging of the Academy for Radiology & Biomedical Imaging Research.

- Haddock B, Fan AP, Uhrlich SD, Jørgensen NR, Suetta C, Gold GE, Kogan F. Assessment of Acute Bone Loading in Humans using [18F]-NaF PET/MRI. *Eur J Nucl Med Mol Imaging*. 2019 Nov;46(12):2452-2463.
- Kogan F, Fan AP, Monu U, Iagaru A, Hargreaves BA, Gold GE. Quantitative Imaging of Bone-Cartilage Interactions in ACL-Injured Patients with PET-MRI. *Osteoarthritis Cartilage*. 2018 Jun;26(6):790-796.
- Kogan F, Levine E, Chaudhari AS, Monu UD, Epperson K, Oei EH, Gold GE, Hargreaves BA. Simultaneous Bilateral-Knee MR Imaging. *Magn Reson Med*. 2018 Aug;80(2):529-537.

Sanjay Malhotra, PhD | Molecular Imaging Program 2016



Associate Professor

Sanjay V. Malhotra, PhD, FRSC joined our department in 2016 as an Associate Professor, Molecular Imaging Program, Department of Radiology. Dr. Malhotra's research interests are in designing small molecule chemical tools to probe biology, and drug discovery & development. Prior to joining Stanford, Dr. Malhotra worked at the National Institute of Health, as Director, Laboratory of Synthetic Chemistry at the National Cancer Institute (NCI), and also Director- Chemical Diversity Division of the Chemical Biology Consortium, NCI's national program for drug discovery & development of anti-cancer drugs.

- Resendez A, Taylor D, Graves E, Malhotra SV. Radiosensitization of Head and Neck Squamous Cell Sarcinoma (HNSCC) by a Natural Product Derived Podophyllotoxin. *ACS Medicinal Chemistry Letters*, (2019).
- Krishna Kumar K, Shalev-Benami M, Robertson MJ, Hu H, Banister SD, Hollingsworth SA, Latorraca NR, Kato HE, Hilger D, Maeda S, Weis WI, Farrens DL, Dror RO, Malhotra SV, Kobilka BK, Skiniotis G. Structure of a Signaling Cannabinoid Receptor 1-G Protein Complex. *Cell*. 2019 Jan 24;176(3):448-458.e12.
- Jun JH, Kumar V, Dexheimer TS, Wedlich I, Nicklaus MC, Pommier Y, Malhotra SV. Synthesis, Anti-Cancer Screening and Tyrosyl-DNA Phosphodiesterase 1 (Tdp 1) Inhibition Activity of Novel Piperidinyl Sulfamides. *Eur J Pharm Sci*. 2018 Jan 1;111:337-348.

Pablo Paredes, PhD | Precision Health and Integrated Diagnostics Center 2018



Instructor

Dr. Pablo Paredes joined the department in 2018 as an Instructor. Dr. Paredes completed his undergraduate degree at the Universidad Politécnica Salesiana in Ecuador. He received both his MSC and MBA at the Georgia Institute of Technology. He obtained a PhD in computer science from the University of California in Berkeley in 2015 and completed a postdoctoral fellowship at Stanford University.

Johannes Reiter, PhD | Canary Center 2016



Assistant Professor

Sanjay V. Malhotra, PhD, FRSC joined our department in 2016 as an Associate Professor, Molecular Imaging Program, Department of Radiology. Dr. Malhotra's research interests are in designing small molecule chemical tools to probe biology, and drug discovery & development. Prior to joining Stanford, Dr. Malhotra worked at the National Institute of Health, as Director, Laboratory of Synthetic Chemistry at the National Cancer Institute (NCI), and also Director- Chemical Diversity Division of the Chemical Biology Consortium, NCI's national program for drug discovery & development of anti-cancer drugs.

- Reiter JG, Baretta M, Gerold JM, Makohon-Moore AP, Daud A, Iacobuzio-Donahue CA, Azad NS, Kinzler KW, Nowak MA, Vogelstein B. An Analysis of Genetic Heterogeneity in Untreated Cancers. *Nat Rev Cancer*. 2019 Nov;19(11):639-650.
- Reiter JG, Makohon-Moore AP, Gerold JM, Heyde A, Attiyeh MA, Kohutek ZA, Tokheim CJ, Brown A, DeBlasio RM, Niyazov J, Zucker A, Karchin R, Kinzler KW, Iacobuzio-Donahue CA, Vogelstein B, Nowak MA. Minimal Functional Driver Gene Heterogeneity among Untreated Metastases. *Science*. 2018 Sep 7;361(6406):1033-1037.
- Makohon-Moore AP, Matsukuma K, Zhang M, Reiter JG, Gerold JM, Jiao Y, Sikkema L, Attiyeh MA, Yachida S, Sandone C, Hruban RH, Klimstra DS, Papadopoulos N, Nowak MA, Kinzler KW, Vogelstein B, Iacobuzio-Donahue CA. Precancerous Neoplastic Cells Can Move Through the Pancreatic Ductal System. *Nature*. 2018 Sep;561(7722):201-205.

Mirabela Rusu, PhD | Integrative Biomedical Imaging Informatics 2018



Assistant Professor

Dr. Rusu joined our department in 2018 as an Assistant Professor. Dr. Rusu received a Ph.D. in Health Informatics in 2011 from the University of Texas Health Science Center in Houston, TX. Prior to joining Stanford, Dr. Rusu has gained both academic and industrial research experience as a postdoctoral fellow at Case Western University in Cleveland, OH and a Medical Image Analysis Scientist / Lead Engineer at GE Global Research in Niskayuna, NY. Dr. Rusu's laboratory focuses on developing analytic methods for biomedical data integration, with a particular interest in radiology-pathology fusion. Such data integration approaches allow the creation of detailed and accurate spatial labels on radiology images acquired prior to the surgery and are used to train advanced machine learning methods to detect cancer on radiology images alone.

Kawin Setsompop, PhD | Radiological Sciences Laboratory 2020



Associate Professor
and Associate
Chair for Advanced
Neurological Imaging
Research

Dr. Kawin Setsompop will be joining the Division of RSL in November 2020 as an Associate Professor of Radiology and Associate Chair for Advanced Neurological Imaging Research in the Department of Radiology. Dr. Setsompop received his PhD in Electrical Engineering and Computer Science from MIT in 2008. Prior to joining Stanford, he was an Associate Professor of Radiology at Harvard Medical School and a member of the affiliated faculty at the Harvard-MIT Division of Health Sciences and Technology. Over the last decade, Dr. Setsompop has been a pioneer in the development of a number of MRI acquisition technologies, including parallel transmission and simultaneous multi-slice imaging. In particular, his blipped-CAIPI technology has been distributed to more than 200 research and clinical sites, and is now a clinical product on Siemens, GE, and Phillips MRI scanners worldwide. Such technology is changing how diffusion, perfusion and functional MRI are being performed today.

- Hoge WS, Setsompop K, Polimeni JR. Dual-polarity slice-GRAPPA for concurrent ghost correction and slice separation in simultaneous multi-slice EPI. *Magn Reson Med*. 2018 Oct;80(4):1364-1375.
- Feinberg DA, Setsompop K. Ultra-fast MRI of the human brain with simultaneous multi-slice imaging. *J Magn Reson*. 2013 Apr;229:90-100.
- Setsompop K, Kimmlingen R, Eberlein E, Witzel T, Cohen-Adad J, McNab JA, Keil B, Tisdall MD, Hoecht P, Dietz P, Cauley SF, Tountcheva V, Matschl V, Lenz VH, Heberlein K, Potthast A, Thein H, Van Horn J, Toga A, Schmitt F, Lehne D, Rosen BR, Wedeen V, Wald LL. Pushing the limits of in vivo diffusion MRI for the Human Connectome Project. *Neuroimage*. 2013 Oct 15;80:220-33.

Sindy Tang, PhD | Precision Health and Integrated Diagnostics Center 2018



Associate Professor

Sindy KY Tang, PhD is the Kenneth and Barbara Oshman Faculty Scholar and Associate Professor of Mechanical Engineering and by courtesy of Radiology (Precision Health and Integrated Diagnostics) at Stanford University as of fall 2018. She received her Ph.D. from Harvard University in Engineering Sciences under the supervision of Prof. George Whitesides. Her lab at Stanford works on the fundamental understanding of fluid mechanics and mass transport in micro-nano systems, and the application of this knowledge towards problems in biology, rapid diagnostics for health and environmental sustainability. New application areas include: food allergy diagnostics (as part of PHIND), and single-cell wound repair using microfluidic "guillotine" as a platform technology.

Adam Wang, PhD | Radiological Sciences Lab 2018



Assistant Professor

Dr. Adam Wang joined the department in 2018 as an Assistant Professor in the Radiological Sciences Laboratory (RSL) division. Dr. Wang's research interests include x-ray and CT systems and methods for diagnostic imaging, image-guided interventions, and image-guided radiation therapy. He has developed CT reconstruction algorithms for improved image quality, new system designs for spectral x-ray imaging, and tools for predicting radiation dose. Dr. Wang received his BS in Electrical Engineering from the University of Texas at Austin (2006); his PhD in Electrical Engineering from Stanford (2012); and his postdoctoral fellowship at Johns Hopkins University (2014). He then spent several years in industry, as a Senior Scientist at Varian Medical Systems, until he returned to Stanford in 2018.

Martin Willeminck, MD, PhD | Cardiovascular Imaging 2019



Instructor

Dr. Martin Willeminck joined our department in 2017 as a Postdoctoral Scholar and was appointed Instructor in 2019. Dr. Willeminck's research interest is in cardiovascular imaging with a focus on statistical prediction modeling and CT technology assessment. He earned his undergraduate degree (BSc) in Biomedical Engineering at Twente University, Netherlands (2006); received his MD at the University of Groningen, Netherlands (2011); completed his PhD with honors while receiving an MSc degree in Clinical Epidemiology, both at Utrecht University, Netherlands (2015). During his PhD, he received a Fulbright Scholarship to conduct research on photon-counting CT and ultra-high-field MRI at the Mount Sinai Hospital in New York. Dr. Willeminck started as a Radiology resident at the University Medical Center Utrecht in 2015 and after two years, he joined Stanford after receiving a Niels Stensen Fellowship award. He decided to pursue a career in academic research rather than in clinical medicine. Dr. Willeminck has published >65 papers and is currently funded by the American Heart Association.

- Willeminck MH, Noël PB. The Evolution of Image Reconstruction for CT – From Filtered Back Projection to Artificial Intelligence. *Eur Radiol.* 2019 May;29(5):2185-2195.
- M.J. Willeminck, M. Persson, A. Pourmorteza, N.J. Pelc, D. Fleischmann. Photon-Counting CT: Technical Principles and Clinical Prospects. *Radiology.* 2018 Nov; 289(2):293-312.
- Chin AS, Willeminck MJ, Kino A, Hinojosa V, Sailer AM, Fischbein MP, Mitchell RS, Berry GJ, Miller DC, Fleischmann D. Acute Limited Intimal Tears of the Thoracic Aorta. *J Am Coll Cardiol.* 2018 Jun 19;71(24):2773-2785.

Katheryne Wilson, PhD | Molecular Imaging Program 2017



Instructor

Dr. Katheryne Wilson joined the department in 2012 as a Postdoctoral Fellow working with Dr. Juergen Willmann and was promoted to Instructor in 2017 after the awarding of her K99/R00 Pathway to Independence award. Dr. Wilson received her B.S.E degree from the University of Washington in 2008 and her PhD in 2012 from the University of Texas at Austin. Her research focuses on acoustic and optical molecular imaging modalities and novel contrast agent development and clinical translation thereof for early cancer detection and therapy.

- Wilson KE, Bachawal SV, Willmann JK. Intraoperative Resection Guidance with Photoacoustic and Fluorescence Molecular Imaging Using an Anti-B7-H3 Antibody-Indocyanine Green Dual Contrast Agent. *Clin Cancer Res.* 2018 Aug 1;24(15):3572-3582.
- Bam R, Laffey M, Nottberg K, Lown PS, Hackel BJ, Wilson KE. Antibody-Indocyanine Green Based Contrast Agent for Photoacoustic and Fluorescence Molecular Imaging of B7-H3 Expression in Breast Cancer. *Bioconjug Chem.* 2019 Jun 19;30(6):1677-1689.
- K.E. Wilson, S.V. Bachawal, L. Abou-Elkacem, K. Jensen, S. Machtaler, L. Tian, J.K. Willmann. Spectroscopic Photoacoustic Molecular Imaging of Breast Cancer using a B7-H3-Targeted ICG Contrast Agent. *Theranostics.* 2017 Apr 3;7(6):1463-1476.

New Clinician Educators

Kristen Bird, MD | Body Imaging & Thoracic Imaging 2019



Dr. Kristen Bird joined the department in 2019 as a Clinical Instructor. She earned her undergraduate degree (B.S.) at University of Kentucky in Biology (2009). She received her MD at University of Kentucky College of Medicine (2013). Dr. Bird completed her internship at Loyola University Medical Center for Internal Medicine (2014). Her residency for radiology was also completed at Loyola University Medical Center (2018). Finally, completed a fellowship in Body Imaging at Stanford University (2019).

Clinical Instructor

Robert Boutin, MD | Musculoskeletal Imaging 2019



Dr. Robert Boutin joined the department in November 2019 as a Clinical Professor in Musculoskeletal Imaging. Dr. Boutin received his B.S. and M.S. from Stanford University (1986). He received his M.D. from the University of California in Davis (1991). Soon after, Dr. Boutin completed his residency in diagnostic radiology at the University of New Mexico and his fellowship in musculoskeletal radiology at the University of California in San Diego. Prior to joining Stanford Radiology, he was a Clinical Professor of Radiology at the University of California in Davis.

Clinical Professor

Ryan Lennex Brunsing, MD, PhD | Body MRI 2019



Clinical Instructor

Dr. Ryan Brunsing joined our department in 2019 as a Clinical Instructor in Body MRI. Dr. Brunsing received his BS with dual majors in Molecular Biology and Physics from UC San Diego (2002), after which he spent three years as a researcher at the Scripps Research Institute in La Jolla, CA and UC San Diego (2002-2005). He received his MD and PhD via the fellowship program at the University of New Mexico (2013); completed his internship combining surgery and internal medicine at Newton-Wellesley Hospital outside Boston, MA (2014); completed his residency at UC San Diego including the ABR dual certification pathway in diagnostic radiology and nuclear medicine (2018); and completed a fellowship in Body MRI at Stanford University (2019). His research interests include MRI and PET/MRI-based cancer detection, liver MRI, molecular imaging of hepatobiliary neoplasms, and the interface of MRI and MRI-guided procedures with immuno-oncology.

Myrna Castelazo, MD | Community Radiology 2019



Clinical Instructor

Dr. Myrna Castelazo joined the department in 2019 as a Clinical Instructor. Dr. Castelazo received her B.A. in Psychology at the University of Texas of the Permian Basin (2006). She completed her Masters of Science in Biology at the Texas A&M University (2009). She obtained her M.D. at the University of Texas Southwestern Medical Center (2013). Dr. Castelazo completed her residency at the Santa Barbara Cottage Hospital (2018). She, then, completed her fellowship in Body Imaging at Stanford University Hospital (2019).

Stephanie Tzu-Ying Chang, MD | VAPAHCS & Body Imaging 2016



Clinical Assistant Professor (Affiliated)

Dr. Stephanie Chang joined the department in 2016 at VA Palo Alto as a Clinical Instructor (Affiliated) and was promoted in 2018 to Clinical Assistant Professor (Affiliated) in Abdominal Imaging. Dr. Chang received her BA in English from Harvard in 2005 and her MD from the University of California, San Francisco (UCSF) in 2010. She completed her internship at Kaiser Oakland (2011) and her first year of residency in radiology at Mallinckrodt Institute of Radiology (MIR) at Washington University in St. Louis. She completed her residency in radiology at Stanford in 2015 and a fellowship in Body MRI at Stanford in 2016.

- Tirkes T, Shah ZK, Takahashi N, Grajo JR, Chang ST, Venkatesh SK, Conwell DL, Fogel EL, Park W, Topazian M, Yadav D, Dasyam AK; Consortium for the Study of Chronic Pancreatitis, Diabetes, and Pancreatic Cancer. Reporting Standards for Chronic Pancreatitis by Using CT, MRI, and MR Cholangiopancreatography: The Consortium for the Study of Chronic Pancreatitis, Diabetes, and Pancreatic Cancer. *Radiology*. 2019 Jan;290(1):207-215.
- Shaikh J, Stoddard PB, Levine EG, Roh AT, Saranathan M, Chang ST, Muelly MC, Hargreaves BA, Vasanaawala SS, Loening AM. View-Sharing Artifact Reduction With Retrospective Compressed Sensing Reconstruction in the Context of Contrast-Enhanced Liver MRI for Hepatocellular Carcinoma (HCC) Screening. *J Magn Reson Imaging*. 2019 Apr;49(4):984-993.
- F. Chen, V. Taviani, I. Malkiel, J.Y. Cheng, J.I. Tamir, J. Shaikh, S.T. Chang, C.J. Hardy, J.M. Pauly, S.S. Vasanaawala. Variable-Density Single-Shot Fast Spin Echo MR Imaging with Deep-Learning Reconstruction Using Variational Networks. *Radiology*. 2018 Nov;289(2):366-373.

Ryan Chao, MD | Community Radiology 2019



Clinical Instructor

Dr. Ryan Chao joined the department in 2019 as a Clinical Instructor in Community Radiology. He received his B.A. in Molecular and Cell Biology and Public Health at the University of California in Berkeley (2007). He then received his M.D. at the University of Illinois College of Medicine (2013). Dr. Chao completed his residency at Santa Clara Valley Medical Center (2013-2018). Finally, he completed his fellowship in Interventional Radiology at Brigham and Women's Hospital (2019).

Lawrence Chow, MD | Body Imaging 2017



Clinical Associate
Professor
Director of Emergency
Radiology

Dr. Larry Chow joined the department in September of 2017 as a Clinical Associate Professor in the Body Imaging Division. In January of 2018, he was appointed as Director of Emergency Radiology. Larry has a long history with Stanford radiology, having completed his residency in diagnostic radiology here from 1996-2000 and the NCI Body Imaging fellowship from 2000-2002 during which his research involved developing this first protocols for CT urography including split-bolus technique with Dr. Graham Sommer as well as developing single breath-hold DWI for abdominal applications in conjunction with Dr. Roland Bammer. He also served as an Assistant Professor of radiology in body imaging here at Stanford from 2002-2005 after which he spent a brief hiatus of 12 years in Portland, OR on the faculty at Oregon Health and Science University. Larry completed an Internship in Internal Medicine at the University of Vermont in 1996, received his MD at the University of Michigan in 1995 and his AB in Cell and Molecular Biology at Cornell University in 1990.

- Moore R, Harvin H, Chow L. Pitfalls in MDCT Urography. *Applied Radiology* 2018;47(12): 16–21.
- Robbins JB1, Broadwell C, Chow LC, Parry JP, Sadowski EA. Mullerian Duct Anomalies: Embryological Development, Classification, and MRI Assessment. *J Magn Reson Imaging*. 2015 Jan;41(1):1-12.

Hisham Dahmouh, MB.BCh | Neuroimaging & Pediatric Neuroimaging 2016



Clinical Assistant
Professor

Dr. Hisham Dahmouh joined the department in 2016 as a Clinical Instructor in Neuroradiology and was promoted in 2018 to Clinical Assistant Professor in Pediatric Neuroradiology. Dr. Dahmouh received his MB.BCh from Cairo University in 1998 and finished Radiology residency in Cairo University in 2001. He joined the Radiology faculty in Cairo University from 2001 to 2008. Afterwards, Dr. Dahmouh completed Pediatric Neuroradiology and Pediatric Radiology fellowships at the Children's Hospital of Philadelphia and a Neuroradiology fellowship at Hospital of University of Pennsylvania between 2010 and 2015 before completing Nuclear Medicine residency at the Harvard Joint Program in Nuclear Medicine in 2016. Dr. Dahmouh is focused on providing clinical care and education in Pediatric Neuroradiology and has published review articles on imaging of child abuse and temporal bone inflammation in 2019.

Guido A. Davidzon, MD | Nuclear Medicine 2016



Dr. Guido A. Davidzon joined our department as Clinical Assistant Professor in Nuclear Medicine & Molecular Imaging in 2016. Dr. Davidzon received his MD in Argentina (2003) and his SM in Biomedical Informatics from Harvard-MIT (2010). He completed his internship at Yale-New Haven Hospital and residency at Stanford Hospital (2013). Dr. Davidzon's research interest is in quantitative imaging techniques to predict and improve clinical outcomes.

Clinical Associate
Professor

Joseph DeMartini, MD | Musculoskeletal Imaging 2016



Dr. Joseph DeMartini joined the department in 2016 as a Clinical Associate Professor in Musculoskeletal Imaging. Dr. DeMartini held a similar faculty position at University of Wisconsin from 2013 to 2016. Prior to that was faculty at University of Washington. Dr. DeMartini began his professional life as an engineer. Having earned a Master's Degree in Engineering, he practiced extensively in California before returning to school to pursue a career in medicine. He earned his MD degree at Medical College of Virginia, completed residency at University of Washington, and completed fellowship in Musculoskeletal imaging at Mayo Clinic Scottsdale.

Clinical Associate
Professor

Michael Fadell, MD | Pediatric Radiology 2018



Clinical Associate
Professor and Director,
Pediatric MSK Imaging

Dr. Fadell graduated from Miami University with degrees in English Literature and Classical Humanities. He completed medical school and Radiology residency at the University of Toledo. His fellowship in pediatric Radiology was completed at Cincinnati Children's Hospital in 2009. After two years in private practice in Oregon, he joined the department of Radiology at the University of Colorado as faculty. He became Director of Musculoskeletal Imaging at Children's Hospital Colorado in 2014 and Associate Program Director of the Radiology Residency Program in 2017. He was promoted to Associate Professor in 2018 and has served on multiple committees for both the Society for Pediatric Radiology (SPR) and the American College of Radiology. He has been awarded research grants from both the SPR as well as the Society for Skeletal Radiology.

Marta Flory, MD | Body Imaging & Cardiovascular Imaging 2019



Clinical Instructor

Dr. Marty Flory joined the department in 2019 as a Clinical Instructor. She earned her B.A. in World Religion at Northwestern University (2006). She then continued on to receive her M.D. at the Boston University School of Medicine. Dr. Flory completed her internship at Arrowhead regional Medical Center (2014). She completed her residency at Harbor UCLA Medical Center (2018). Finally, completing her fellowship at Stanford University (2019).

Ben Franc, MD, MS, MBA | Nuclear Medicine 2018



Clinical Professor
Director, Dual
Pathway Nuclear
Medicine and DR
Residency

Dr. Benjamin Franc joined our department in 2018 as a Clinical Professor. He received his B.S. and M.S. in chemical engineering from Stanford and his M.D. from the University of Southern California, and he completed his residency in Nuclear Medicine at Stanford in 2003. Dr. Franc began his academic career at the University of California, San Francisco where he developed several lines of research spanning new imaging probe and radiopharmaceutical therapy design, small animal imaging, translational imaging, innovation in image processing, and extraction of novel information from nuclear-based imaging modalities using cutting-edge computational techniques. During a detour in his academic path, Dr. Franc discovered a passion for healthcare strategy and health policy as a leader in a large multispecialty practice in Northern California and has devoted his energy to improving health services broadly in the rapidly evolving healthcare landscape through his research and multiple leadership capacities in organized medicine.

- Ding Y, Sohn JH, Kawczynski MG, Trivedi H, Harnish R, Jenkins NW, Lituiev D, Copeland TP, Aboian MS, Mari Aparici C, Behr SC, Flavell RR, Huang SY, Zalocusky KA, Nardo L, Seo Y, Hawkins RA, Hernandez Pampaloni M, Hadley D, Franc BL. A Deep Learning Model to Predict a Diagnosis of Alzheimer Disease by Using 18F-FDG PET of the Brain. *Radiology*. 2019 Feb;290(2):456-464.
- Beckford-Vera DR, Gonzalez-Junca A, Janneck JS, Huynh TL, Blecha JE, Seo Y, Li X, VanBrocklin HF, Franc BL. PET/CT Imaging of Human TNF α Using [89Zr]Certolizumab Pegol in a Transgenic Preclinical Model of Rheumatoid Arthritis. *Mol Imaging Biol*. 2019 May 7.

Benjamin Ge, MD | Interventional Radiology 2018



Clinical Assistant
Professor

Dr. Benjamin H. Ge joined the department in 2018 as a Clinical Instructor and was promoted in 2019 to Clinical Assistant Professor in Interventional Radiology. Dr. Ge received his BA in Literature and BS in Chemical Biology from Stevens Institute of Technology (2006). He received his MD from the NYU School of Medicine (2010). Afterwards, Dr. Ge completed his internship at Flushing Hospital (2011). He completed his diagnostic radiology residency at the Hospital of the University of Pennsylvania (2015) where he also completed a 10 month fellowship appointment in MSK radiology during his fourth year (2015). Dr. Ge completed his fellowships in Body Imaging (2016) and Interventional Radiology (2017) at Stanford University School of Medicine. Dr. Ge currently practices at Washington Hospital in Fremont, CA and serves as a visiting Clinical Assistance Professor of Interventional Radiology at Stanford.

Christine Ghatan, MD | VAPACHCS & Interventional Radiology 2017



Clinical Assistant Professor (Affiliated)

Dr. Christine Ghatan joined the Department in 2017 as a Clinical Instructor (Affiliated), and was promoted in 2018 to Clinical Assistant Professor (Affiliated). Dr. Ghatan graduated with Distinction from Stanford University in 2005 with a BS in Biological Sciences and BA in English. She earned her MD from the Keck School of Medicine at the University of Southern California in 2009, and completed general surgery internship (2010) and diagnostic radiology residency (2014) at Cedars-Sinai Medical Center in Los Angeles. After fellowship in interventional radiology at Mount Sinai Medical Center in New York (2015), she served as an Assistant Professor of Radiology in the Interventional Radiology division at the University of Colorado School of Medicine before joining the Palo Alto VA as a staff physician in 2017. She specializes in clinical interventional oncology. Her research interests include radiation safety and dose reduction technologies as well as leadership development and diversity in interventional radiology.

- Ghatan CE, Altamirano J, Fassiotto M, Perez MG, Maldonado Y, Josephs S, Sze DY, Kothary N. Achieving Speaker Gender Equity at the SIR Annual Scientific Meeting: The Effect of Female Session Coordinators. *J Vasc Interv Radiol.* 2019 Nov;30(11):1870-1875.
- Englander MJ, Ghatan CE, Hamilton BN, Josephs SC, Nelson KJ, Traube LEE. Society of Interventional Radiology Position Statement on Parental Leave. *J Vasc Interv Radiol.* 2017 Jul;28(7):993-994.
- Ghatan CE, Fassiotto M, Jacobsen JP, Sze DY, Kothary N. Occupational Radiation Exposure during Pregnancy: A Survey of Attitudes and Practices among Interventional Radiologists. *J Vasc Interv Radiol.* 2016 Jul;27(7):1013-1020.

Aron Gould-Simon, MD | Nuclear Medicine 2019



Clinical Instructor

Dr. Aron Gould-Simon joined the department in 2019 as a Clinical Instructor. Dr. Gould-Simon received his BA in Economics from The University of Virginia (2004) and his MD at the University of Cincinnati (2009). He completed residency at The University of Texas Southwestern Medical Center (2013) and was a fellow in Nuclear Medicine PET/CT at Stanford University Medical Center (2013). He left Stanford to join Metabolic Imaging Medical Group in Fresno, CA, and has been serving as President since 2014. He is currently also the Director of Nuclear Medicine at Saint Agnes Medical Center and Medical Director at Valley Metabolic Imaging in Fresno, CA.

Carolina Guimaraes, MD | Pediatric Neuroimaging 2018



Clinical Associate Professor

Dr. Carolina Guimaraes joined the Stanford's Radiology department in January 2018 as a Clinical Assistant Professor in the division of Pediatric Neuroradiology. Dr. Guimaraes completed her medical school and radiology residency in southern Brazil. She completed her fellowship in pediatric radiology and pediatric neuroradiology at Cincinnati Children's Hospital Medical Center where she stayed on faculty for another two years. She has been a neuroradiologist also at Nemours Children's Hospital and Texas Children's Hospital before moving to Stanford and joining Lucile Packard Children's Hospital. She is board certified by the American Board of Radiology and her research interests are in fetal Neuro-imaging and radiology process improvement.

- Zarutskie A, Guimaraes C, Yopez M, Torres P, Shetty A, Sangi-Haghpeykar H, Lee W, Espinoza J, Shamshirsaz AA, Nassr A, Belfort MA, Whitehead WE, Sanz Cortes M. Prenatal Brain Imaging for Predicting Need for Postnatal Hydrocephalus Treatment in Fetuses that had Neural Tube Defect Repair In Utero. *Ultrasound Obstet Gynecol.* 2019 Mar;53(3):324-334.
- Heaphy-Henault KJ, Guimaraes CV2,, Mehollin-Ray AR, Cassady CI, Zhang W, Desai NK, Paldino MJ. Congenital Aqueductal Stenosis: Findings at Fetal MRI That Accurately Predict a Postnatal Diagnosis. *AJNR Am J Neuroradiol.* 2018 May;39(5):942-948.
- Guimaraes CV, Grzeszczuk R, Bisset GS 3rd, Donnelly LF. Comparison between Manual Auditing and a Natural Language Process with Machine Learning Algorithm to Evaluate Faculty Use of Standardized Reports in Radiology. *J Am Coll Radiol.* 2018 Mar;15(3 Pt B):550-553.

Chivonne Harrigal, MD | Breast Imaging 2018



Clinical Assistant Professor

Dr. Chivonne Harrigal joined the department in 2012 as Clinical Instructor and rejoined the department in January 2018 as a Clinical Assistant Professor in the Division of Breast Imaging at the Stanford University School of Medicine. She received her M.D. from the University of Pittsburgh School of Medicine in 2005. She graduated from Stanford University's radiology residency program in 2011 where she was a chief resident in 2010. She completed a fellowship in Breast Imaging from the Stanford University School of Medicine in 2012. Dr. Harrigal lives in South Lake Tahoe and works at community hospitals in the Reno-Tahoe area in addition to Stanford. In 2019, she received the Nevada Cancer Coalition's Physician Healthcare Partner of the Year Award in recognition for her leadership and advocacy for women's breast health.

Syed Hashmi, MD | Neuroimaging 2017



Clinical Assistant
Professor

Dr. Syed Hashmi joined the department in 2017 as a Clinical Assistant Professor in Neuroimaging. Dr. Hashmi earned his B.S. in Molecular and Cellular Biology at the University of Illinois – Urbana Champaign (2007). He then received his M.D. at the University of Illinois College of Medicine in Urbana Champaign (2011). He completed his internship in Internal Medicine (2012) and his residency in Diagnostic Radiology (2016) at the University of Texas Health Sciences Center in Houston. Finally, he completed his fellowship in Neuroradiology at Barrow Neurological Institute (2017).

Kristina Hawk, MD, PhD | Nuclear Medicine 2018



Clinical Instructor

Dr. Kristina Elizabeth Hawk joined the department in 2018 as a Clinical Instructor in Nuclear Medicine. Dr. Hawk is a Nuclear Medicine Physician and Neuroradiologist. Eager to expand her passion into the field of Medical Radiation Physics, she also completed a separate Master's degree in Medical Radiation Physics. This provided her with in depth training of how therapeutic and diagnostic instruments use both ionizing and non-ionizing radiation in the clinical setting. She then completed her Medical Doctorate and Diagnostic Radiology Residency at the University of Southern California (USC), learning the art of medicine while serving the diverse population at Los Angeles County Hospital. Dr. Hawk completed clinical fellowship requirements in Nuclear Medicine at USC, and is now Board Certified by the American Board of Nuclear Medicine. She also completed a Neuroradiology fellowship at USC, and is Board Certified the American Board of Radiology. She served as both the Chief Resident and Chief Neuroradiology Fellow.

- Muehe AM, Yerneni K, Theruvath AJ, Thakor AS, Pribnow A, Avedian R, Steffner R, Rosenberg J, Hawk KE, Daldrup-Link H. Ferumoxytol Does Not Impact Standardized Uptake Values on PET/MR Scans. *Mol Imaging Biol.* 2019 Jul 19.
- Currie G, Hawk KE, Rohren E, Vial A, Klein R. Machine Learning and Deep Learning in Medical Imaging: Intelligent Imaging. *J Med Imaging Radiat Sci.* 2019 Dec;50(4):477-487.

Richard Hong, MD | Interventional Radiology 2018



Clinical Assistant
Professor

Dr. Richard Hong joined the department in 2018 as a Clinical Assistant Professor in Interventional Radiology. Dr. Hong obtained his B.A. at Stanford University with honors (1999). He received his M.D. at the Weill Medical College of Cornell University (2004). He completed his internship in Internal Medicine at the University of Hawaii; his residency in radiology at the New York Presbyterian Hospital/Cornell Medical Center; fellowship in musculoskeletal radiology at the University of California in San Francisco Medical Center; and fellowship in vascular and interventional radiology at the Stanford University Medical Center.

Ibrahim Idakoji, MD | Community Radiology & Interventional Radiology 2017



Clinical Assistant
Professor

Dr. Ibrahim Idakoji joined the department in 2017 as a Clinical Assistant Professor. He is a native of the Bay Area and practicing Interventional Radiologist at Stanford Medical Center who specializes in minimally invasive, image-guided percutaneous and endovascular procedures that aid in the diagnosis and treatment of complex vascular and oncologic disease. Some of his areas of interest include treatment of both acute and chronic venous thromboembolic disease, treatment of primary and metastatic hepatic malignancy, and percutaneous pain management.

Shellie Josephs, MD | Pediatric Interventional Radiology 2018



Clinical Professor and
Director, Pediatric IR

Dr. Shellie Josephs joined the department in 2018 as a Clinical Professor in Pediatric Interventional Radiology. She received her B.S. at the Texas A&M University (1986). Dr. Josephs obtained her M.D. at the University of Texas Southwestern Medical School (1992). Prior to joining Stanford Radiology, Dr. Josephs held a faculty position as Associate Professor in Pediatric Radiology at the University of Texas Southwestern Medical Center.

Mayil Krishnam, MD, MBA | Cardiovascular Imaging 2020



Clinical Professor
Co-Associate Chair,
Imaging Technologies

Dr. Mayil Krishnam, MD joined the department in 2020 as a Clinical Professor in the Cardiovascular Imaging division. Dr. Krishnam received his MBBS from Stanley Medical College in India in 1994, and completed his fellowship in Cardiovascular and Thoracic Imaging at the David Geffen School of Medicine, UCLA, in 2006. He also received an MBA from Paul Merage Business School at University of California, Irvine (UCI) in 2016. Prior to joining Stanford, Dr. Krishnam was a Professor at UCI and also served as Director and Chief of the Cardiovascular and Thoracic Imaging Section, as well as Medical Director of MR. He has been actively involved in CT radiation dose reduction and has optimized and implemented adult chest, vascular and cardiac CT protocols.

- Tomasian A, Krishnam MS. Clinical image, MR angiography of midaortic syndrome. *Pediatr Radiol*, 2010 Feb;40 (2):229, Epub 2009 Jul 31.
- Lee C, Suh RD, Krishnam MS, Lai CK, Fishbein MC, Wallace WE, Chen A, Sagar R, Belperio JA, Ardenhali A, Ross DJ. Recurrent pulmonary capillary hemangiomatosis after bilateral lung transplantation. *J Thorac Imaging*, 2010 Aug;25(3):W89-92.
- Cheng W, Zeng M, Arellano C, Mafori W, Goldin J, Krishnam M, Ruehm SG. Detection of myocardial perfusion abnormalities: standard dual-source coronary computed tomography angiography versus rest/stress technetium-99m single-photo emission CT. *Br J Radiol*, 2010 Aug;83:652-60.

Fred Laningham, MD | Pediatric Radiology 2017



Clinical Assistant
Professor (Affiliated)

Dr. Fred Laningham joined the department in 2017 as an Affiliated Clinical Assistant Professor in Pediatric Radiology. Dr. Laningham received his B.S. in Biology at Stanford University (1986). He obtained his M.D. at the University of Arkansas for Medical Sciences (1991). He served his internship in pediatrics at the Balboa Naval Hospital in San Diego, California (1992). Later on, he completed his residency in Diagnostic Radiology at the University of Tennessee Medical Center (1999). Dr. Laningham, then, completed his fellowship in Pediatric Radiology at the Beth Israel Hospital/Brigham and Women's Hospital (2001). Currently, he is the Medical Director of Radiology at Valley Children's Hospital in Madera, California.

Bryan Lanzman, MD | Neuroimaging 2017



Clinical Assistant
Professor

Dr. Bryan Lanzman joined the department in 2017 as a Clinical Instructor in the Neuroradiology section, and was promoted to Clinical Assistant Professor in 2019. Dr. Lanzman received his B.S. in Biochemistry from UCLA in 2004, and completed his medical degree (2010) at Columbia University College of Physicians & Surgeons. After internal medicine internship at St. Luke's-Roosevelt Hospital Center (2010), he returned to Columbia University Medical Center for radiology residency (2015). Dr. Lanzman completed his medical education at with a 2- year neuroradiology fellowship at Stanford.

- Y. Huang, T.G. Singer, M. Iv, B. Lanzman, S. Nair, J.A. Stadler, J. Wang, M.S.B. Edwards, G.A. Grant, S.H. Cheshier, K.W. Yeom. Ferumoxytol-Enhanced MRI for Surveillance of Pediatric Cerebral Arteriovenous Malformations. *J Neurosurg Pediatr.* 2019 Jul 19:1-8.

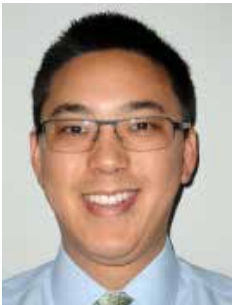
Margaret Lin, MD | Thoracic & Cardiovascular Imaging 2019



Clinical Associate
Professor

Dr. Margaret Lin is returning to our department as a Clinical Associate Professor in Thoracic and Cardiovascular Imaging. She was previously clinical faculty at Stanford from 2008 to 2012. Since then, she has been adjunct faculty while based in Las Vegas as a teleradiologist with Vision Radiology and as a Managing Editor for ZDoggMD LLC. Dr. Lin received her BA in Biochemistry from Harvard (1995) and her MD from Stanford (1999). She subsequently completed her internship (2000) and residency (2002) in Internal Medicine, followed by residency (2007) in Diagnostic Radiology and fellowship (2008) in Thoracic and Cardiovascular Imaging at Stanford.

Edward Che-Wen Lo, MD | Body Imaging 2016



Clinical Assistant
Professor

Dr. Edward Lo was appointed to the clinical educator faculty as Instructor in Body Imaging in 2016 and then promoted to Clinical Assistant Professor in 2018. He first came to Stanford Radiology in 2015 as a clinical fellow in the Body Imaging Division. Dr. Lo received his BS in Molecular Biology from University of Wisconsin in 2006. In 2010, Dr. Lo earned his MD at University of Illinois at Chicago. He completed his internal medicine internship at Weiss Memorial Hospital in Chicago and then returned to University of Illinois at Chicago for his diagnostic radiology residency. Dr. Lo has been active in both resident and fellow education and was appointed as one of Stanford's diagnostic radiology residency Associate Program Directors in 2019.

Mohammad Madani, MD | Cardiovascular Imaging 2019



Clinical Instructor

Dr. Mohammad Madani was appointed as a Clinical Instructor in 2019. Dr. Madani received his MD at LSU School of Medicine in New Orleans (2013). He completed his internship (2014) and radiology residency (2018) at St. Luke's Medical Center in Wisconsin. Subsequently, Dr. Madani completed a CVI fellowship at Stanford (2019). Currently he is involved in cardiovascular imaging research.

Sachin Malik, MD | VAPAHCS & Cardiovascular Imaging 2016



Clinical Assistant Professor

Sachin Malik, MD, is a staff physician in Thoracic and Cardiovascular imaging at VAPAHCS and Clinical Assistant Professor in the Division of Cardiovascular Imaging at Stanford University. Dr. Malik completed his residency training in diagnostic radiology at Kaiser Permanente Los Angeles Medical Center. He completed his fellowship training in cardiothoracic imaging at Duke University in 2016, after which he came on board at the VA as a founding member of the newly formed Thoracic and Cardiovascular imaging section. In 2019, he came on as a clinical assistant professor at Stanford University. He currently serves as Division Chief for Thoracic and Cardiovascular Imaging at the VA Palo Alto, founder and director of the stress cardiac MRI program at the VA, and director of cardiovascular MRI at the VA. His clinical interests include MRI physics, cardiac MRI, stress cardiac MRI, cardiac CTA, vascular MRA, and vascular CTA.

- Malik SB, Chen N, Parker RA 3rd, Hsu JY. Transthoracic Echocardiography: Pitfalls and Limitations as Delineated on Cardiac CT and MR. *Radiographics*. 2017 Mar-Apr;37(2):383-406.
- Malik SB, Kwan D, Shah AB, Hsu JY. The Right Atrium - Gateway to the Heart: Anatomy and Pathology. *Radiographics*. 2015 Jan-Feb;35(1):14-31.

Carina Mari Aparici, MD | Nuclear Medicine 2018



Clinical Professor
Director, Theranostics
Program

Dr. Mari Aparici, MD, is a Clinical Professor in Radiology at Stanford University. She is a Nuclear Physician with residencies in both Europe (Barcelona) and US (Stanford), and with Molecular imaging fellowships from Stanford University. She is a physician-scientist in the development of Molecular Imaging. She has more than 20 years of clinical and research experience in the field, more than 10 years of a leadership position as Chief Nuclear Medicine at the San Francisco VAMC as part of her prior appointment as a UCSF faculty member, and now as Director of the Theranostics program at Stanford University. She has published more than 100 papers, has been serving as an editorial board member of reputed journals, has been PI of NIH and non-NIH grants and serves as a member of committees at her University and several Societies.

- Toriihara A, Nobashi T, Baratto L, Duan H, Moradi F, Park S, Hatami N, Aparici C, Davidzon G, Iagaru A. Comparison of Three Interpretation Criteria of ⁶⁸Ga-PSMA11 PET-Based on Inter- and Intra-Reader Agreement. *J Nucl Med*. 2019 Sep 27. pii: jnumed.119.232504.
- Song H, Harrison C, Duan H, Guja K, Hatami N, Franc B, Moradi F, Mari Aparici C, Davidzon G, Iagaru A. Prospective Evaluation in an Academic Center of ¹⁸F-DCFPyL PET/CT in Biochemically Recurrent Prostate Cancer: A Focus on Localizing Disease and Changes in Management. *J Nucl Med*. 2019 Oct 18. pii: jnumed.119.231654.
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AJ Mariano, MD | Body Imaging 2018



Clinical Assistant
Professor

Dr. A.J. Mariano joined the department in 2018 as Clinical Instructor and was promoted to Clinical Assistant Professor in Body Imaging in 2019. He is active in the Body Imaging Fellowship as Assistant Director. Dr. Mariano received his M.D. at the University of Illinois and completed his residency at the University of Illinois Hospital and Health Sciences System. He completed his fellowship in Body Imaging at Stanford University hospital.

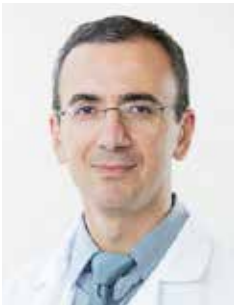
Chandan Misra, MD | VAPAHCS & Body Imaging 2019



Dr. Chandan Misra joined the Abdominal Radiology Division at the Palo Alto VA Hospital in April 2019. A Bay Area native, Dr. Misra received his B.A. degree in the Biological Basis of Behavior at the University of Pennsylvania in 2007. He went on to receive his M.D. at the Pennsylvania State College of Medicine, where he also completed his Radiology Residency in 2017. After completing his fellowship in Body Imaging at the University of California, San Diego in 2018, he worked as a staff radiologist at Santa Rosa Memorial Hospital in the St. Joseph Health System before joining the faculty of the Palo Alto VA. His main academic interests include abdominal and pelvic MRI, GU imaging, and resident education.

Clinical Instructor
(Affiliated)

Farshad Moradi, MD, PhD | Nuclear Medicine 2018



Dr. Farshad Moradi joined the department in 2018 as a Clinical Assistant Professor in Nuclear Medicine. He was on the faculty at UC San Diego from 2015 to 2018. Dr. Moradi received his MD from Tehran University of Medical Sciences in 2000, and his PhD (2007) in computation and neural systems at California Institute of Technology. He was a postdoctoral research fellow at NYU from 2006-2008; and subsequently completed his internship in internal medicine (2008) at UMass, residency in diagnostic radiology (2014) at UC San Diego, and fellowship in PET/CT and nuclear medicine (2015) at Stanford University.

- Moradi F, Morris TA, Hoh CK. Perfusion Scintigraphy in Diagnosis and Management of Thromboembolic Pulmonary Hypertension. *Radiographics*. 2019 Jan-Feb;39(1):169-185.

Clinical Assistant
Professor

Michael Muelly, MD | Body MRI 2017



Clinical Instructor

Dr. Michael Muelly joined the department in 2017 as a Clinical Instructor in Body MRI. He received his B.S. in Mathematics and Computer Science at the University of Pittsburgh (2006). He obtained his M.D. at Penn State University (2011). Dr. Muelly, then, completed his residency in Diagnostic Radiology and fellowship in Body MRI at Stanford University (2017).

Helen Nadel, MD | Pediatric Radiology 2018



Clinical Professor and
Director, Pediatric
Nuclear Medicine

Dr. Nadel joined our department in July 2018 as a Clinical Professor of Radiology. She is a dual-board certified Pediatric Radiologist and Nuclear Medicine Physician in both the USA and Canada. She holds certifications from the Royal College of Physicians and Surgeons of Canada in Diagnostic Radiology and Nuclear Medicine, The American Board of Radiology (ABR) with certificate of added qualification in Pediatric Radiology and the American Board of Nuclear Medicine (ABNM). Dr. Nadel was an Associate Professor of Radiology at University of British Columbia and had been practicing as a pediatric radiologist and pediatric nuclear medicine physician at British Columbia Children's Hospital in Vancouver, British Columbia since 1983 after medical school at University of Manitoba (1977, Winnipeg, Manitoba), internship and residency at University of Toronto (1978-1982) and Pediatric Radiology fellowship (Chief Fellow) at Hospital for Sick Children (1982-1983, Toronto, Ont.) She has been working with the entire breadth of general and hybrid nuclear medicine studies in children in a fully integrated department of Pediatric Radiology and lecturing to promote this field for her entire career. Dr. Nadel currently uses PET/MR exclusively for PET imaging at Lucile Packard Children's Hospital at Stanford University.

- McCarten KM, Nadel HR, Shulkin BL, Cho SY. Imaging for Diagnosis, Staging and Response Assessment of Hodgkin Lymphoma and Non-Hodgkin Lymphoma. *Pediatr Radiol*. 2019 Oct;49(11):1545-1564.
- Wise-Faberowski L, Irvin M, Lennig M, Long J, Nadel HR, Bauser-Heaton H, Asija R, Hanley FL, McElhinney DB. Assessment of the Reconstructed Pulmonary Circulation with Lung Perfusion Scintigraphy after Unfocalization and Repair of Tetralogy of Fallot with Major Aortopulmonary Collaterals. *World J Pediatr Congenit Heart Surg*. 2019 May;10(3):313-320.
- Cerci JJ, Etchebehere EC, Nadel H, Brink A, Bal CS, Rangarajan V, Pfluger T, Kagna O, Alonso O, Begum FK, Mir KB, Magboo VP, Menezes LJ, Paez D, Pascual TN. Is True Whole-Body (18)F-FDG PET/CT Required in Pediatric Lymphoma? An IAEA Multicenter Prospective Study. *J Nucl Med*. 2019 Aug;60(8):1087-1093.

Judy Nguyen, MD | Nuclear Medicine 2019



Dr. Judy Nguyen joined our department in September 2019 as a Clinical Assistant Professor in Nuclear Medicine. Dr. Nguyen attended medical school and did a surgical internship at UCSD. In 2010, she began her nuclear medicine residency at Stanford where she worked with Dr. McDougall, Dr. Goris and Dr. Gambhir. Between 2013 – 2019, Dr. Nguyen entered world of private practice at Kaiser Permanente. In 2019, she was approached by former mentors and now current colleagues to return to Stanford. As they shared with her the evolution that Stanford was undergoing and the boundless opportunities and advancements that were on the horizon, she realized that she wanted to return and be a part of this vision.

Clinical Assistant
Professor

Thomas Osborne, MD | VAPAHCS & Neuroimaging 2018



Dr. Thomas Osborne joined the department in 2018 as an Affiliated Clinical Assistant Professor. Dr. Osborne received his B.A. at the University of California in Santa Barbara with high honors and distinction (1996). He obtained his M.D. at Dartmouth Medical School (2001). He completed his internship in Internal Medicine at the University of California in Los Angeles St. Mary Medical Center (2002). He, then, completed his residency in Diagnostic Radiology and fellowship in Neuroradiology at Harvard Medical School. Currently, Dr. Osborne is the Chief Medical Informatics Officer at the VA Palo Alto Health Care System where he leads innovative cross-functional teams throughout the healthcare system to develop and support healthcare technology, as well as advance clinical research.

Clinical Assistant
Professor (Affiliated)
CMIO, VAPAHCS

Chirag Patel, MD, PhD | Molecular Imaging Program 2019



Clinical Assistant
Professor

Dr. Chirag Patel joined our department in July 2016 as a postdoctoral fellow in the laboratory of Dr. Sanjiv Sam Gambhir. He completed the postdoctoral and clinical neuro-oncology fellowships in June 2019. Since then he has been a Clinical Instructor in the departments of Neurology & Neurological Sciences and Radiology. Dr. Patel's research in therapeutics focuses on tumor treating fields (TTFields, a form of alternating electric fields that target cancer), which is recently FDA-approved as a fourth modality of anti-glioblastoma therapy after surgery, radiotherapy, and chemotherapy. His research in neuroimaging focuses on techniques to better monitor brain tumors' response to therapy; to that end, Dr. Patel translates promising molecular imaging probes from the lab to the neuro-oncology clinic for evaluation in patients with glioblastoma. Dr. Patel received his BS/MSE (2004) in biomedical engineering from Johns Hopkins University, PhD (2010) from the University of Texas MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences, and MD (2012) from the University of Texas at Houston McGovern Medical School. He then completed adult neurology residency at UCLA Geffen School of Medicine (2016).

Tanvi Patel, MD | Community Radiology & Breast Imaging 2018



Clinical Assistant
Professor

Dr. Tanvi Patel joined the department in 2018 as a Clinical Instructor and was promoted in 2019 to Clinical Assistant Professor. She works as a breast imager and general radiologist, and also serves as the medical director of Ultrasound at Stanford Health Care/ValleyCare Hospital. She received her MD (2010) from the University of Chicago, completed internship (2011) at CPMC in San Francisco followed by residency (2015) at Northwestern Memorial Hospital (2015) and Breast Imaging and Ultrasound fellowship (2016) at UCSF. She previously worked at a private practice in the South Bay Area.

Mrudula Penta, MD | Neuroimaging 2016



Clinical Assistant Professor

Dr. Mrudula Penta joined the department in 2016 as a Clinical Instructor and was promoted in 2019 to Clinical Assistant Professor in Neuroradiology. Dr. Penta received her BA in Cognitive Science and Spanish from Rice in the Rice-Baylor Medical Scholars Program (2002) and her MD (2006) at Stanford University School of Medicine. Dr. Penta initially pursued residency in otolaryngology at Washington University in St. Louis (2006-2010) however transitioned to diagnostic radiology residency completed at University of Texas Southwestern (2014). She completed a fellowship in neuroradiology (2012) at Stanford University School of Medicine.

- Yan CH, Tong CCL, Penta M, Patel VS, Palmer JN, Adappa ND, Nayak JV, Hwang PH, Patel ZM. Imaging Predictors for Malignant Transformation of Inverted Papilloma. *Laryngoscope*. 2019 Apr;129(4):777-782.
- Kalnins A, Penta M, El-Sawy T, Liao YJ, Fischbein N, Iv M. Malignant Optic Glioma Masked by Suspected Optic Neuritis and Central Retinal Vein Occlusion. *Radiol Case Rep*. 2018 Nov 13;14(2):226-229.
- Dewan K, Yang C, Penta M. Anterior Cervical Pain Syndrome Risk Factors, Variations in Hyolaryngeal Anatomy and Treatments. *Laryngoscope*. 2019 May 3.

Andrew Picel, MD | Interventional Radiology 2019



Clinical Assistant Professor

Dr. Andrew Picel joined our department in 2019 as a Clinical Assistant Professor of Interventional Radiology. Dr. Picel completed medical school at Wake Forest University and IR residency at UC San Diego. He was an IR faculty member at UC San Diego from 2014-2019. Dr. Picel is interested in resident education and served as an assistant program director to the IR fellowship and program director of the IR residency. His clinical research focuses on pelvic embolization procedures. He has studied uterine artery embolization for invasive placenta and prostatic artery embolization for benign prostatic hyperplasia.

- Picel AC, Hsieh TC, Shapiro RM, Vezeridis AM, Isaacson AJ. Essentials of Prostate Artery Embolization for Benign Prostatic Hyperplasia: Patient Evaluation, Anatomy, and Technique for Successful Outcomes. *Radiographics* 2019.
- Picel AC, Wolford B, Cochran RL, Ramos GA, Roberts AC. Prophylactic Internal Iliac Artery Occlusion Balloon Placement to Reduce Operative Blood Loss in Patients with Invasive Placenta. *J Vasc Interv Radiol*. 2018 Feb;29(2):219-224.
- Picel AC, Koo SJ, Roberts AC. Transcatheter Arterial Embolization with N-Butyl Cyanoacrylate for the Treatment of Acquired Uterine Vascular Malformations. *Cardiovasc Intervent Radiol*. 2016 Aug;39(8):1170-6.

Sarah Pittmann, MD | Breast Imaging 2019



Clinical Assistant
Professor

Dr. Sarah Pittmann joined the department in 2019 as a Clinical Assistant Professor in Breast Imaging. Dr. Pittmann received her B.S. in Biochemistry and Nutrition; M.D. and completed her residency in Diagnostic Radiology at Memorial University of Newfoundland. She also completed her residency in Nuclear Medicine at the University of Alberta. Prior to joining Stanford Radiology, she was an associate radiologist and nuclear medicine physician. Dr. Pittman had an appointment as a clinical lecturer in the Department of Radiology & Diagnostic Imaging in the Faculty of Medicine and Dentistry at MIC Medical Imaging & University of Alberta Department of Radiology & Diagnostic Imaging.

Brian Pogatchnik, MD, PhD | Cardiovascular and Thoracic Imaging 2020



Clinical Instructor

Dr. Brian Pogatchnik joined the department in 2020 as a Clinical Instructor in Cardiovascular and Thoracic Imaging. Dr. Pogatchnik graduated from the University of Minnesota with a BS in 2010, double majoring in genetics and ecology. He obtained his M.D. at University of Minnesota Medical School in 2014. Dr. Pogatchnik completed his transitional year at Hennepin County Medical Center in 2015, diagnostic radiology residency at the University of Minnesota in 2019 and Thoracic Imaging fellowship at Stanford University in 2020.

- Pogatchnik B, Kuehn-Hajder J, Nelson M, Emory T. No effect of pre- treatment breast MRI on the timing of surgical treatment for newly diagnosed breast cancer. *J Am Coll Radiol.* 2017 Oct;14(10):1310-1315.
- Pogatchnik B, Takahashi T. "Adhesive Capsulitis." *ACR Case in Point.* N.p., 2 Feb. 2017. Web. 22 July 2017.

Steven Poplack, MD | Breast Imaging 2020



Professor

Dr. Steven Poplack joined the Department as a Professor in the Division of Breast Imaging in July 2020. Dr. Poplack earned his undergraduate degree from Stanford, medical degree from Boston University School of Medicine, and completed his Diagnostic Radiology Residency at Yale New Haven Hospital, as well as Body Imaging and Breast Imaging fellowship. Dr. Poplack is recognized internationally for his scientific contributions in the field of breast imaging technology development and as a clinical educator in breast imaging. He has acted as the clinical principal investigator in the creation of novel breast imaging applications of Optical (i.e. Near Infrared), Microwave and Electrical Impedance Spectroscopy, benchmarking optical parameters in women with normal and abnormal conventional breast imaging. He was also co-PI of a pilot evaluation of US-guided cryoablation*. He is currently studying the role of axillary US as a triage tool in the surgical management of the axilla and evaluating Ultrasound guided Diffuse Optical Tomography (US-DOT) in monitoring preoperative systemic therapy and in reducing the rate of benign breast biopsy.*

Dr. Poplack is a professor of Diagnostic Radiology and has instructed medical students, radiology residents and breast imaging fellows for over 25 years. He is a Fellow of the American College of Radiology and a Fellow of the Society of Breast Imaging.

- Poplack SP, Tosteson TD, Wells WA, Pogue BW, Meaney PM, Hartov A, Kogel CA, Soho SK, Gibson JJ, Paulsen KD. Electromagnetic breast imaging: results of a pilot study in women with abnormal mammograms. *Radiology*. 2007 May;243(2):350-9.
- Poplack SP, Tosteson TD, Kogel CA, Nagy HM. Digital Breast Tomosynthesis: Initial Experience in 98 Women with Abnormal Digital Screening Mammography. *Am J Roentgenol* 2007; Sep;189(3):616-23.

Joshua Reicher, MD | VAPAHCS & Musculoskeletal Imaging 2018



Clinical Assistant Professor (Affiliated)

Dr. Joshua Reicher joined the department in 2018 as a Clinical Instructor (Affiliated) and was promoted in 2019 to Clinical Assistant Professor (Affiliated) in Musculoskeletal Imaging. Dr. Reicher's research interests center on applications of computer science in medicine, with projects ranging from operations and workflow improvements to machine learning in advanced imaging. Dr. Reicher received his BS in Biophysics from UCLA (2008) and his MD from UCSD (2012). He completed his internship at Santa Clara Valley Medical Center (2013), his radiology residency at Stanford Health Care (2017), and his fellowship at Palo Alto VA & Stanford Health Care (2019) in Musculoskeletal Imaging and Informatics.

- Ardila D, Kiraly AP, Bharadwaj S, Choi B, Reicher JJ, Peng L, Tse D, Etemadi M, Ye W, Corrado G, Naidich DP, Shetty S. End-to-End Lung Cancer Screening with Three-Dimensional Deep Learning on Low-Dose Chest Computed Tomography. *Nat Med*. 2019 Jun;25(6):954-961.

Amanda Rigas, MD | VAPAHCS & Interventional Radiology 2017



Dr. Amanda Rigas joined the department in 2017 as an Affiliated Clinical Instructor. Dr. Rigas received her B.A. in Psychology at Harvard University (2005). She, then, received her M.D. at Case Western Reserve School of Medicine (2011). She completed her residency at Beth Israel Deaconess Medical Center in Boston, Massachusetts. Currently, she is a staff physician in Interventional Radiology at the Veterans Affairs Hospital in Palo Alto.

Clinical Instructor
(Affiliated)

Stephan Rogalla, MD, PhD | Molecular Imaging Program & VAPAHCS 2018



Dr. Stephan Rogalla has joined the department in 2018 as a clinical instructor. Since 2012 he has been trained as an instructor and postdoctoral fellow at the Molecular Imaging Program at Stanford (MIPS) to become a leading expert in early detection of GI-tract related diseases and guided surgical and endoscopic resection of (pre) malignant lesions. Stephan is chair of the intraoperative imaging group of the European Society of Molecular Imaging (ESMI) since 2017. He is an invited speaker at international conference and is publishing in high impact journals. Stephan is trained gastroenterologist and earned his degree from the Humboldt-University in Berlin, Germany.

Clinical Assistant
Professor

Veronica Rooks, MD | Pediatric Radiology 2017



Dr. Veronica "Roni" Mueller Rooks joined our department in 2017 as an Instructor and was appointed Clinical Professor in 2018. She is an attending at Tripler Army Medical Center, after having served in the United States Army for the past 24 years as a pediatric radiologist, and as a trauma radiologist in Iraq 2007. She retired from active duty as Chief of Radiology in 2017. Dr. Rooks' research interest focuses on child abuse, simulation, and ultrasound with a passion in education outreach in low resource settings. She received her MS (1988) in Environmental Engineering at Duke University, MD (1993) at the University of Vermont College of Medicine, internship and residency (1998) at Tripler Army Medical Center in Honolulu, HI, and fellowship (2000) at Children's Hospital of Boston, Harvard University.

Clinical Professor

Eric Rosen, MD | Breast Imaging 2019



Dr. Eric Rosen joined the department in 2019 as a Clinical Professor. Dr. Rosen received his B.A. at Cornell University (1987). He obtained his M.D. at the University of California in San Francisco (1991). Dr. Rosen completed his internship at the California Pacific Medical Center (1992); his residency in Diagnostic Radiology at the University of California in Los Angeles (1996); and his fellowship in breast imaging at the University of California in San Francisco (1997). Prior to joining Stanford Radiology, Dr. Rosen was a Visiting Associate Professor at the University of Colorado's School of Medicine.

Clinical Professor

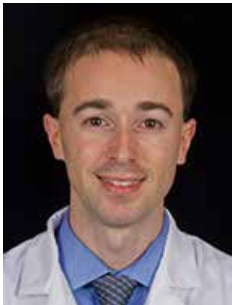
Nelly Salem, MD | Breast Imaging 2018



Clinical Assistant
Professor

Dr. Nelly Salem joined the department in 2018 as a Clinical Instructor and was promoted to Clinical Assistant Professor of Breast Imaging in 2019. Dr. Salem completed her internship at Wayne State University (2009), and residency (2013) and fellowship (2014) at Case Western Reserve University Hospitals in Cleveland, Ohio. She served as faculty in the breast and body radiology sections at Oakland University William Beaumont School of Medicine (2014-2017) in Royal, Oak Michigan.

Jesse Sandberg, MD | Pediatric Radiology 2020

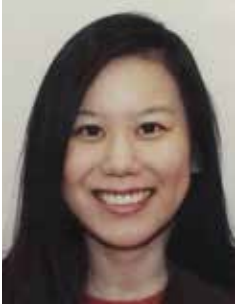


Clinical Instructor

Jesse Sandberg, MD, joined the department as a Clinical Instructor in the Division of Pediatric Radiology in 2020. Dr. Sandberg received his BSE from Duke University in 2008 and his MD from the David Geffen School of Medicine at UCLA in 2013. He completed his radiology residency at Mallinckrodt Institute at Washington University in St. Louis in 2018, followed by completing his two year pediatric radiology fellowship at Stanford in 2020. His current areas of research include MRI sequence development, contrast ultrasound, ultrasound elastography, and contrast ultrasound VCUG.

- Sandberg JK, Hulett R, Khanna G. Infected Thrombosed Umbilical Venous Varix in an Infant. Diagnosis Please Case 253. *Radiology*. 2018 Jan;286(1):350-352.
- Mudambi K, Sandberg J, Bass D, Rubesova E. Contrast enhanced ultrasound: comparing a novel modality to MRI to assess for bowel disease in pediatric Crohn's patients. *Transl Gastroenterol Hepatol*. 2020;5:13.
- Sandberg JK, Chi YY, Smith EA, et al. Imaging Characteristics of Nephrogenic Rests Versus Small Wilms Tumors: A Report From the Children's Oncology Group Study AREN03B2. *AJR Am J Roentgenol*. 2020;214(5):987-994.

Jody Shen, MD | Cardiovascular Imaging 2020



Jody Shen, MD joined the department and Cardiovascular Imaging division in July 2020. Dr. Shen received her MD from Duke University and completed her residency and fellowship training at Stanford. Her interests include education of all training levels.

- Tse JR, Shen J, Yoon L, Kamaya A. Bosniak Classification Version 2019 of Cystic Renal Masses Assessed with MRI. *AJR Am J Roentgenol* 2020;1-7.
- Tse JR, Shen J, Shen L, Yoon L, Kamaya A. Bosniak Classification of Cystic Renal Masses Version 2019: Comparison of Categorization using CT and MRI. *AJR Am J Roentgenol* (in press).

Clinical Instructor

Luyao Shen, MD | Body Imaging 2018



Dr. Luyao Shen joined Stanford in 2018 as a Clinical Instructor and was promoted in 2019 to Clinical Assistant Professor in Body Imaging. Dr. Shen received her BS in Biological Sciences and BA in Mathematical Sciences from University of Cincinnati (2008). She continued on to complete medical school at the same institution. After receiving her MD degree, she completed an intern year in medicine at University of California Irvine (2013) and both her residency (2017) and fellowship (2018) from University of California Los Angeles.

Clinical Assistant
Professor

Taiyo Shimizu, MD | Community Radiology & Interventional Radiology 2017



Dr. Taiyo Shimizu joined the Radiology department in 2017 as a Clinical Assistant Professor. Prior to joining Stanford, he worked for Sutter Health in where he grew a robust interventional radiology program along with his partners. He currently serves as the division chief of the Community Radiology division and as the chief of Radiology department at Stanford Health Care - ValleyCare, helping to expand Stanford Medicine to the East Bay.

Clinical Assistant
Professor and Division
Chief, Community
Radiology

Andy Shon, MD | Body Imaging 2017



Dr. Andy Shon joined the department in 2017 as a Clinical Instructor and was appointed in 2018 as Clinical Assistant Professor in Body Imaging. Dr. Shon received BA in Biology from University of Chicago (2004) and his MD at University of Illinois at Chicago (2011). He completed his internship at AMITA Health Saint Joseph Hospital in Chicago (2012) and residency at University of Illinois at Chicago (2016). Dr. Shon then completed his Body Imaging fellowship (2017) at Stanford University School of Medicine.

Clinical Assistant
Professor

Nicholas Telischak, MD | Neurointervention 2019

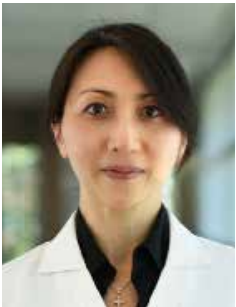


Clinical Assistant
Professor

Dr. Nick Telischak is a neurointerventional surgeon (neurointerventional radiologist) who specializes in the diagnosis and treatment of stroke, brain aneurysms, brain arteriovenous malformations, brain and spinal dural arteriovenous fistulae, carotid artery stenosis, vertebral body compression fractures, spinal metastases, axial back pain, and congenital vascular malformations. Dr. Telischak treats all of these conditions using minimally-invasive, image-guided procedures and state-of-the-art technology.

- Zhang M, Telischak NA, Fischbein NJ, Steinberg GK, Marks M, Zaharchuk G, Heit JJ, Iv M. Clinical and Arterial Spin Labeling Brain MRI Features of Traditional Venous Anomalies. *J Neuroimaging*. 2018 May;28(3):289-300.
- Telischak NA, Heit JJ, Campos LW, Choudhri OA, Do HM, Qian X. Fluoroscopic C-Arm and CT-Guided Selective Radiofrequency Ablation for Trigeminal and Glossopharyngeal Facial Pain Syndromes. *Pain Med*. 2018 Jan 1;19(1):130-141.
- Iv M, Telischak N, Feng D, Holdsworth SJ, Yeom KW, Daldrup-Link HE. Clinical Applications of Iron Oxide nanoparticles for Magnetic Resonance Imaging of Brain Tumors. *Nanomedicine (Lond)*. 2015;10(6):993-1018.

Elizabeth Tong, MD | Neuroimaging 2019



Clinical Assistant
Professor

Dr. Elizabeth Tong is a diagnostic radiologist specializing in neuroradiology imaging at Stanford University Hospital. She particularly enjoys working with residents and fellows, and consider that the best part of my job. My research focus is on functional imaging, artificial intelligence, stroke, and neuropsychiatric diseases. Since joining faculty here at Stanford, I have published several papers on AI, functional MRI, and brain tumors.

Austin Trinh, MD | Neuroimaging and Neurointervention 2020



Clinical Instructor

Dr. Austin Trinh joined the department in 2020 as a Clinical Instructor in the Neuroimaging and Neurointervention division. Dr. Trinh earned his undergraduate degrees in Biology and Family Consumer Science & Human Development in 2009, and his MD in 2013, from the University of Utah. He completed his residency at Loma Linda University and his fellowship at Stanford in neuroradiology.

- Imaging Anatomy of the Vertebral Canal for Trans-Sacral Hiatus Puncture of the Lumbar Cistern. Clinical anatomy (New York, N.Y.)Trinh, A., Hashmi, S. S., Massoud, T. F.2020
- Interobserver Agreement for the CT Severity Grading Scales for Acute Traumatic Brain Injury (TBI). Journal of neurotraumaCreeden, S., Ding, V., Parker, J. J., Jiang, B., Li, Y., Lanzman, B., Trinh, A., Khalaf, A., Wolman, D., Halpern, C., Boothroyd, D., Wintermark, M.2020.

Emily Tsai, MD | Thoracic Imaging 2017



Clinical Assistant Professor

Dr. Emily Tsai is a Clinical Assistant Professor in Thoracic Imaging. She returned to Stanford in 2017, after completing her residency and fellowship in thoracic imaging and intervention at UCLA. She earned her MD from Stanford in 2011 and her BS in biomedical engineering from Columbia University in 2005. Her recent research projects have included analysis of cost-effectiveness of CT screening for lung cancer, as well as application of clinical tools and machine learning to improve workflow and triage of emergent studies.

- Toumazis I, Tsai EB, Erdogan SA, Han SS, Wan W, Leung A, Plevritis SK. Cost-Effectiveness Analysis of Lung Cancer Screening Accounting for the Effect of Indeterminate Findings. JNCI Cancer Spectr. 2019 May 23;3(3):pkz035.
- Tsai EB1, Chiles C2, Carter BW3, Godoy MCB3, Shroff GS3, Munden RF2, Truong MT3, Wu CC. Incidental Findings on Lung Cancer Screening: Significance and Management. Semin Ultrasound CT MR. 2018 Jun;39(3):273-281.
- Tsai EB1, Pomykala K1, Ruchalski K1, Genshaft S1, Abtin F1, Gutierrez A1, Kim HJ1, Li A1, Adame C1, Jalalian A1, Wolf B1, Garon EB1, Goldman JW1, Suh R. Feasibility and Safety of Intra-Thoracic Biopsy and Rebiopsy for Evaluation of Programmed Cell Death-1 Ligand (PD-L1) Expression for Immunotherapy in Non-Small Cell Lung Cancer. Radiology. 2018 Apr;287(1):326-332.

Sabrina Ward, MD | Musculoskeletal Imaging 2017



Sabrina I. Ward, MD is a Stanford University Medical School Alumna ('95) that had been serving as Adjunct Clinical Faculty in the Stanford Department of Radiology, Musculoskeletal Division since 2015. She recently joined the staff as a Clinical Instructor in the line of Educator. After graduating Magna Cum Laude with a B.S. in Cellular and Molecular Biology from San Francisco State University and completing medical education at Stanford, she went on to complete a Diagnostic Radiology residency at the University of California, Los Angeles and a Musculoskeletal Radiology Fellowship at the Mallinckrodt Institute of Radiology, Washington University, St. Louis. After serving as Assistant Professor, Musculoskeletal Division, Loma Linda University she has been in private practice. Besides being skilled in a broad range of MSK intervention, she has an affinity for Breast Imaging.

Clinical Instructor

Marc Willis, DO, MMM | Musculoskeletal Imaging 2019



Dr. Marc Willis joined the department in 2019 as a Clinical Professor in Musculoskeletal Imaging. He received his B.S. in Biology at Truman State University (1994). Then, Dr. Willis obtained his M.D. at the Kirksville College of Osteopathic Medicine (1998). For his postgraduate training, he completed his internship at the navel medical Center in San Diego (1999); his residency in Diagnostic Radiology at Baylor College of Medicine (2007); and fellowship in Musculoskeletal Radiology at Massachusetts General Hospital (2008). Prior to joining Stanford Radiology, Dr. Willis held a faculty position at Baylor College of Medicine as an Associate Professor in the Department of Radiology.

Clinical Professor
Associate Chair,
Quality Improvement

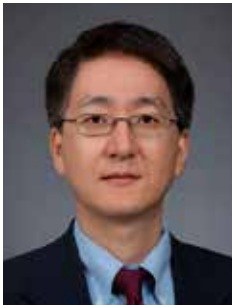
Xin Ye, MD | Community Radiology & Breast Imaging 2017



Clinical Assistant
Professor

Dr. Xin Ye joined the department in 2017 as a Clinical Instructor and was promoted in 2018 to Clinical Assistant Professor in Community Radiology/Breast Imaging. Dr. Ye received his BS in Biology and Business from Caltech (2007) and his MD at UCLA (2011). Soon after, Dr. Ye completed his internship at White Memorial Medical Center in LA (2012), his residency at Loma Linda University Medical Center (2016) and fellowship from UC Irvine (2017).

Luke Yoon, MD | Body Imaging 2019



Clinical Associate
Professor

Dr. Luke Yoon joined the department in June 2019 as a Clinical Associate Professor. Dr. Yoon specializes in body imaging and musculoskeletal imaging. A graduate of Yale College and Yale School of Medicine, Dr. Yoon completed his post graduate training at Harvard affiliated hospitals: internal medicine internship at Brigham and Women's Hospital, and radiology residency and fellowship at Massachusetts General Hospital. Prior to joining Stanford Radiology, Dr. Yoon worked as an attending radiologist at Brigham and Women's Hospital, Singleton Associates, and Baylor College of Medicine.

Victoria Young, MD | Pediatric Radiology & Pediatric Interventional Radiology 2020



Clinical Instructor

Dr. Victoria Young joined our department in 2020 as a Clinical Instructor in Pediatric Radiology and Pediatric Interventional Radiology. Dr. Young received a BS in Biology and Psychology with a minor in Chemistry from the University of Tampa (2007) and MD from the University of Miami (2013). Following this, Dr. Young completed a Preliminary Surgery Internship (2014), Radiology Residency (2018), and Interventional Radiology Fellowship (2019), all at Northwestern Memorial Hospital at Northwestern University. Dr. Young recently completed a second fellowship in Pediatric Radiology (2020) at Stanford University School of Medicine. Throughout training, Dr. Young has been involved with multiple clinical research projects including:

- Young, V., Rajeswaran, S., Management of Portal Hypertension in the Pediatric Population: A Primer for the Interventional Radiologist. *Semin Intervent Radiol.* 2018 Aug;35(3):160-164.
- Riaz, A., Vogelzang, R., Young, V., Gabr, A., Ganger, D., Abecassis, M., Lewandowski, RJ., Thornburg, B., Salem, R., Ivancev, K., Resnick, S. (2020) Endovascular Management of Acquired Hepatic Arterial-Portal Venous Malformations. *Cardiovasc Intervent Radiol.* 2020 Mar;43(3):466-477.
- Friedewald, SM, Young, V., Gupta, D. (2017) Lesion localization using the scroll bar on tomosynthesis: Why doesn't it always work? *Cline Imaging.* 2017 Jul 29;47:57-64.

New Adjunct Faculty

Jeff Kleck, PhD | Molecular Imaging Program 2016



Dr. Jeff Kleck is an Adjunct Professor at Stanford University, and an advisor to the University's leadership. He is an established Silicon Valley technology and software entrepreneur and has built several ventures from concept to market leader, in which he has served as Founder, CEO, and Chairman. Jeff has taken his ventures public on the NASDAQ and unified them into far-reaching commercial corporations. Jeff has participated as a visiting scientist at two national laboratories, and holds a PhD in Biomedical Physics from UCLA (former faculty); an MS in Engineering Management from Stanford University (current faculty); and, an MS and a BS in Nuclear Engineering from Texas A&M University.

Adjunct Professor

Alexander Oshmyansky, MD, PhD | Pediatric Radiology 2016



Dr. Alexander Oshmyansky joined the department and a Consulting Assistant Professor in 2016 and was re-appointed as an Adjunct Lecturer in 2017. Dr. Oshmyansky received a BA in biochemistry from the University of Colorado at Boulder (2003), a PhD in Mathematics from the University of Oxford (DPhil Oxon., 2013) on a Marshall Scholarship, and an MD from the Duke University School of Medicine (2009). Alex completed a surgical internship at Brigham and Women's Hospital (2010). Alex then completed radiology residency and a pediatric radiology fellowship at the Johns Hopkins Hospital (2014, 2015). Alex is an experienced startup entrepreneur with several patents. He is currently working on developing a pharmaceutical company focused on creating low-cost versions of high-cost generic drugs.

Consulting Assistant
Professor

Faculty Leadership Announcements

Garry Gold, MD

Professor of Radiology

Appointed Vice Chair of Research and Administration

David Larson, MD, MBA

Professor of Radiology

Vice Chair of Clinical Operations and Education

Volney Van Dalsem, MD

Clinical Professor of Radiology

Appointed as Associate Chair of Outpatient Imaging and Community Radiology

Geoffrey Riley, MD

Clinical Associate Professor of Radiology

Appointed as Director of Radiology CME and Director of Community Radiology

Lawrence Chow, MD

Clinical Associate Professor of Radiology

Appointed Director of Emergency Radiology

Lane Donnelly, MD

Professor of Radiology

Hired as CQO at Lucille Packard Children's Hospital

Christopher Beaulieu, MD, PhD

Professor of Radiology

Appointed as Associate Chair for Clinical Education

Heike Daldrop-Link, MD

Professor of Radiology

Appointed Associate Chair of Diversity

Brian Hargreaves, PhD

Professor of Radiology

Appointed Associate Chair of Research

Brooke Jeffery, MD

Professor of Radiology

In interim, stepped back into the division chief role

Aya Kamaya, MD

Associate Professor of Radiology

Appointed Director of Ultrasound

Bhavik Patel, MD, MBA

Assistant Professor of Radiology

Appointed Director of Clinical Trials

Nayeli Morimoto, MD

Clinical Assistant Professor of Radiology

Appointed Director of Radiography and Fluoroscopy

Safwan Halabi, MD

Clinical Associate Professor, Radiology of Radiology

Appointed Director of Clinical Informatics at Lucille Packard Children's Hospital

Dan Spielman, PhD

Professor of Radiology

Appointed Director of Basic Science Education and Statistic Core

Helen Nadel, MD

Clinical Professor of Radiology

Appointed Director of Pediatric Nuclear Medicine

Gloria Hwang, MD

Clinical Associate Professor of Radiology

Appointed Director of Clinical Performance Improvement

Appointed Associate Chair of Clinical Performance Improvement

Dan Ennis, PhD

Associate Professor of Radiology

Appointed Director of Radiology Research at VA Palo Alto Health Care System

Utkan Demirci, PhD

Professor of Radiology

Appointed Co-Division Chief of Canary Center

Donald Frush, MD

Professor of Radiology

Joined as Medical Director for Pediatric Radiology at Lucille Packard Children's Hospital

Patrick Barnes, MD

Professor of Radiology (Emeritus)

Retired

Faculty Leadership Announcements

Kristen Yeom, MD

Associate Professor of Radiology

Appointed Interim Director of Pediatric

F. Glen Seidel, MD

Clinical Professor of Radiology

Retired

Shellie Josephs, MD

Clinical Professor of Radiology (Emeritus)

Appointed Director of Pediatric IR

Curtis Langlotz, MD, PhD

Professor of Radiology

Matthew Lungren, MD, MPH

Assistant Professor of Radiology

Launched the Stanford Center for Artificial Intelligence in
Medicine and Imaging (AIMI Center)

Sanjiv Sam Gambhir, MD, PhD

Professor of Radiology

Created Precision Health and Integrated Diagnostics Center
and was named Director

Norbert Pelc, PhD

Professor of Radiology

Returned to the Radiology Department after 7 years in
Bioengineering. Retired shortly afterwards and returns as an
Emeritus.

Bruce Parker, MD

Professor of Radiology (Emeritus)

Retired from position as Associate Chair for Special Projects in
Summer (2018)

