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| **CLINICAL FACULTY - RESEARCH INTERESTS** |
| **MEDICAL IMAGING FACULTY** | **INTEREST 1** | **INTEREST 2** |
| Arif, H | MRI-US-Fusion | Dynamic Pelvis MRI - Prolapse |
| Arteaga, V | Quality Improvement/CT | Medical Student Teaching |
| Avery, R | Cardiac MRI Semi-Automated Post-Processing | MRI Evaluation of Ventricular Modeling |
| Becker, J | Perfusion and Diffusion Imaging in Stroke & Neurocognitive Decline following infarct and intracranial hemorrhage | T1 and T2 mapping techniques in the spine and sacroiliac joints |
| Bennett, J | Imaging Child Ependymoma Tumor Genetics | Imaging of the Hippocampus |
| Bisla, J | IBD and Chronic Colitis and Diverticulitis |   |
| Carmody, R | Brain Tumors with histopathological pathways |   |
| Czeyda-Pommersheim, F | MRI of uterus/adnexa | MRI of inflammatory bowel disease |
| Gimber, L | Functional Tumor Imaging |  MR Neurography  |
| Guzman, G | Advanced DWI Imaging Techniques for brain gliomas Head and Neck Squamous cell carcinomavolumetric imaging in dementia | High resolution DTI Imaging |
| Hennemeyer, C | Catheter Blood Pulomonary Lys intervention | Renovascular Deinnervation |
| Kubal, W | High Resolution Traumatic MR Spine Imaging |   |
| Kuo, P | Nuclear Medicine/Nuclear Imaging | Economics/Utilization |
| Liau, J | MRI Biomarkers in Pacreatic Cancer | MRI Optimization |
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| **CLINICAL FACULTY - RESEARCH INTERESTS** |
| **MEDICAL IMAGING FACULTY** | **INTEREST 1** | **INTEREST 2** |
| Taljanovic, M | MRI Osteoarthritis of the knee, MR Neurography, Tissue Elastrography U/S, Vascular Skeletal U/S | Share Wave Elastography, MRI MSK Soft Tissues |
| Udayasankar, U | Emergency Imaging in Children | Resident Performance Evaluations |
| Winegar, B | Head and Neck  | Orbits |
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| **RESEARCH FACULTY - RESEARCH INTERESTS** |
| **MEDICAL IMAGING FACULTY** | **INTEREST 1** | **INTEREST 2** |
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| Karellas, A | Radiation dose monitoring and control in medical imaging | Towards higher resolution x-ray imaging (radiography, fluoroscopy, tomographic imaging of the breast) |
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| Matsunaga, T | Microbubbles and Nanodroplets for phase change/shift contrast | Microbubbles and Multiphoton Microscopy for Point-of-Care diagnostics during Pancreatic Cancer Surgery |
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| Vedantham, S | Dedicated breast computed tomography | CT-based radiomics and imaging markers development (texture analysis, outcome analysis, associations with histology, genomics and proteomics and machine learning) |
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| Witte, R | 1. Acoustoelectric brain imaging
2. Acoustoelectric heart imaging
3. Image-guided placement of an implantable device
 | 1. Thermoacoustic imaging and thermometry of the breast
2. Lymphatic imaging with light and sound
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