



Abhijit J. Chaudhari, Ph.D.

Research/Academic Interests	The mission of Dr. Chaudhari's research group is to develop novel medical imaging methods in the context of the musculoskeletal system in humans and animal models. This includes development and validation of advanced medical imaging instrumentation, imaging protocols, and methods for image analysis.
Title	Assistant Professor of Radiology
Specialty	Radiology-Musculoskeletal Imaging, Radiology - Radiology Physics, Orthopedics - Imaging, Rheumatology - Imaging, Cancer - Imaging
Department	Radiology
Division	Nuclear Medicine Radiology Physics Musculoskeletal Radiology
Center/Program Affiliation	UC Davis Comprehensive Cancer Center
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Radiology, 4860 Y St. Suite 3100 Sacramento, CA 95817 Phone: 916-734-0655
Languages	Hindi, Marathi
Education	Ph.D., University of Southern California, Los Angeles CA 2007 M.S., California State University, Northridge, Northridge CA 2002 B.E., University of Pune, Pune, 1999 M.S., University of Southern California, Los Angeles CA 2007
Fellowships	UC Davis/UC Davis Medical Center, Davis/Sacramento CA 2007-2010
Professional Memberships	American College of Rheumatology Institute of Electrical and Electronic Engineers Society of Nuclear Medicine
Honors and Awards	Cover page image of the journal Rheumatology for all issues in the year, 2011 Society of Nuclear Medicine Young Professionals Committee, Third Prize in Basic Science, 2010 Outstanding Research Award, UC Davis Cancer Center, Sacramento, CA, 2007 President's Associates Outstanding Graduate Student Award, California State University, Northridge, CA, 2002



Abhijit J. Chaudhari, Ph.D.

Bruce H. Hasegawa Young Investigator Medical Imaging Science Award, 2011
Winner, Still Image category, American College of Rheumatology 2011 Annual Image Competition, 2011
Interdisciplinary Women's Health Research Scholar, 2013
Young Investigator Award, 2014

Select Recent Publications

For a complete list of Dr. Chaudhari's publications, click [here](#).

A. J. Chaudhari, R. M Leahy, B. L Wise, N. E Lane, R. D. Badawi and AA Joshi, Global point signature for shape analysis of carpal bones, *Physics in Medicine and Biology*, 2014; 59(4), pp 961-974.

R. D. Boutin, M. H. Buonocore, I. Immerman, Z. Ashwell, G. J. Sonico, R. Szabo, and A. J. Chaudhari, Real-time MRI during active wrist motion – initial observations, *PLOS One*, 2013;8 (12): e84004.

M. Lam, A. J. Chaudhari, Y. Sun, F. Zhou, A. Dobbie, R. F. Gandour-Edwards, S. L. Tinling, D. G. Farwell, W. L. Monsky, K. Kirk Shung and L. Marcu, Ultrasound backscatter microscopy for imaging of oral carcinoma, *Journal of Ultrasound in Medicine*, 2013;32(10), pp 1789-1797.

W. L. Monsky, B. Jin, C. Molloy, R. J. Canter, S. C. Li, T-C Lin, D. Borys, W. Mack, I. Kim, M. H. Buonocore and A. J. Chaudhari, Semi-Automated Determination of Tumor Necrosis in Soft Tissue Sarcoma Using Contrast-Enhanced MRI, *Anticancer Research*, 2012;32(11):4951-4961.

J. T. Gu, L. Nguyen, A. J. Chaudhari, and J. D. MacKenzie, Molecular Characterization of Rheumatoid Arthritis with Magnetic Resonance Imaging, *Topics in Magnetic Resonance Imaging*, 2011;22(2), 61-69.

A. J. Chaudhari, S. L. Bowen, G. W. Burkett, N. J. Packard, F. Godinez, A. A. Joshi, S. M. Naguwa,



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D. K. Shelton, J. C. Hunter, J. M. Boone, M. H. Buonocore and R. D. Badawi, High resolution 18F-FDG-PET with MRI for monitoring response to treatment in Rheumatoid Arthritis, *European Journal of Nuclear Medicine and Molecular Imaging*, 2010;37(5), 1047

A. J. Chaudhari, S. Ahn, R. Levenson, S. R. Cherry, and R. M. Leahy, Excitation spectroscopy in multispectral optical fluorescence tomography: methodology, feasibility, and computer simulation studies, *Physics in Medicine and Biology*, 2009;54(15), 4687-4704.

A. J. Chaudhari, A. A. Joshi, S. L. Bowen, R. M. Leahy, S. R. Cherry, and R. D. Badawi, Crystal identification in positron emission tomography using nonrigid registration to a Fourier-based template, *Physics in Medicine and Biology*, 2008;53(18), 5011-5027

A. J. Chaudhari, F. Darvas, J. R. Bading, R. A. Moats, P.S. Conti, D. J. Smith, S. R. Cherry, R. M. Leahy, Hyperspectral and multispectral bioluminescence optical tomography for small animal imaging, *Physics in Medicine and Biology*, 2005;50(23), 5421-5441.

A. J. Chaudhari, Y. Yang, S. R. Cherry, R. D. Badawi, PSPMT/APD hybrid DOI detectors for the PET component of a dedicated breast PET/CT system - a feasibility study, *IEEE Transactions on Nuclear Science*, 2008;55(3), 853-861

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