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
Musculoskeletal Radiology
Nuclear Medicine
Radiology Physics

Center/Program Affiliation
UC Davis Comprehensive Cancer Center

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Languages
Hindi, Marathi

Education
Ph.D., University of Southern California, Los Angeles, California, 2007
M.S., California State University, Northridge, Northridge, California, 2002
B.E., University of Pune, Pune, 1999
M.S., University of Southern California, Los Angeles, California, 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

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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

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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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