



Abhijit J. Chaudhari, Ph.D.

Research/Academic Interests

The mission of Dr. Chaudhari's lab is to develop and validate novel medical imaging techniques, focusing on diseases of the musculoskeletal and neurological systems. The research group utilizes a range of imaging modalities that include MRI, PET, SPECT, CT, Ultrasound, and Optical imaging, in both preclinical and clinical settings.

The Chaudhari lab is located at the Department of Radiology, UC Davis School of Medicine and at the California National Primate Research Center, University of California Davis.

Title	Associate Professor
Specialty	Radiology-Musculoskeletal Imaging, Radiology - Radiology Physics, Orthopedics - Imaging, Rheumatology - Imaging, Cancer - Imaging
Department	Radiology
Division	Radiology Physics
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
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Hindi, Marathi
Education	M.S., California State University, Northridge CA 2002 M.S., California State University - Northridge, Northridge CA 2002 Ph.D., University of Southern California, Los Angeles CA 2007 M.S., University of Southern California, Los Angeles CA 2007 B.E., University of Pune, Pune, Maharashtra, India 1999
Fellowships	School of Medicine, UC Davis Medical Center, Sacramento CA 2007-2010
Professional Memberships	Data Safety and Monitoring Board, NIH/NIAMS TARGET Trial Institute of Electrical and Electronic Engineers UC Davis Cancer Center UC Davis Center for Visualization
Honors and Awards	Nominee, Vilcek Prizes for Creative Promise in Biomedical Science, Vilcek Foundation, New York, NY, 2014



Abhijit J. Chaudhari, Ph.D.

Young Investigator Award, AAOS/CORR/ORS/CMH-UCD/SWHR Musculoskeletal Sex Differences Throughout the Lifespan Research Symposium, Rosemont, IL, 2014
Interdisciplinary Womens Health Research Scholar, Building Interdisciplinary Careers in Womens Health (BIRCWH) program, National Institutes of Health 2013-2018
Outstanding abstract award, 6th International Workshop on Osteoarthritis Imaging, Osteoarthritis Research Society International, Hilton Head, SC (first author), 2012
Winner, Still Image category, American College of Rheumatology, 2011
Annual Image Competition, presented at the colleges annual meeting in Chicago, IL, USA, 2011
For a complete list of Dr. Chaudhari's publications, click [here](#).

Select Recent Publications

Henrichon SS, Foster BH, Shaw C, Bayne CO, Szabo RM, Chaudhari AJ, Boutin RD. Dynamic MRI of the wrist in less than 20 seconds: normal midcarpal motion and reader reliability. *Skeletal Radiol.* 2020 Feb;49(2):241-248. doi:10.1007/s00256-019-03266-1. Epub 2019 Jul 9. PMID: 31289900.

Shaw CB, Foster BH, Borgese M, Boutin RD, Bateni C, Boonsri P, Bayne CO, Szabo RM, Nayak KS, Chaudhari AJ. Real-time three-dimensional MRI for the assessment of dynamic carpal instability. *PLoS One.* 2019 Sep 19;14(9):e0222704. doi:10.1371/journal.pone.0222704. PMID:31536561.

Hobson BA, Rowland DJ, Sisó S, Guignet MA, Harmany ZT, Bandara SB, Saito N, Harvey DJ, Bruun DA, Garbow JR, Chaudhari AJ, Lein PJ. TSPO PET Using [18F]PBR111 Reveals Persistent Neuroinflammation Following Acute Diisopropylfluorophosphate Intoxication in the Rat. *Toxicol Sci.* 2019 Aug 01;170(2):330-344. doi:10.1093/toxsci/kfz096. PMID:31087103.

Foster BH, Shaw CB, Boutin RD, Joshi AA, Bayne CO, Szabo RM, Chaudhari AJ. A principal component analysis-based framework for statistical modeling of bone displacement during wrist maneuvers. *J Biomech.* 2019 Mar 06;85:173-181. doi:10.1016/j.jbiomech.2019.01.030. Epub 2019 Jan 24. PMID:30738587.

Borgese M, Boutin RD, Bayne CO, Szabo RM, Chaudhari AJ. Association of lunate morphology,



Abhijit J. Chaudhari, Ph.D.

sex, and lunotriquetral interosseous ligament injury with radiologic measurement of the capitatriquetrum joint. *Skeletal Radiol.* 2017 Dec;46(12):1729-1737. doi:10.1007/s00256-017-2747-x. Epub 2017 Aug 21. PMID:28828602.

Abdelhafez YG, Hagge RJ, Badawi RD, Raychaudhuri SP, Chaudhari AJ. Early and Delayed 99mTc-MDP SPECT/CT Findings in Rheumatoid Arthritis and Osteoarthritis. *Clin Nucl Med.* 2017 Nov; 42(11):e480-e481. doi:10.1097/RLU.0000000000001839. PMID:28872556.

Mitra A, Kundu-Raychaudhuri S, Abria C, Rona A, Chaudhari AJ, Raychaudhuri SP. In-vivo quantitative assessment of the therapeutic response in a mouse model of collagen-induced arthritis using (18) F-fluorodeoxyglucose positron emission tomography. *Clin Exp Immunol.* 2017 May; 188(2):293-298. doi:10.1111/cei.12926. Epub 2017 Feb 24. PMID:28090641.

Boutin RD, Netto AP, Nakamura D, Bateni C, Szabo RM, Cronan M, Foster B, Barfield WR, Seibert JA, Chaudhari AJ. 'Knuckle Cracking': Can Blinded Observers Detect Changes with Physical Examination and Sonography? *Clin Orthop Relat Res.* 2017 Apr;475(4):1265-1271.

Chaudhari AJ, Ferrero A, Godinez F, Yang K, Shelton DK, Hunter JC, Naguwa SM, Boone JM, Raychaudhuri SP, Badawi RD. High-resolution (18)F-FDG PET/CT for assessing disease activity in rheumatoid and psoriatic arthritis: findings of a prospective pilot study. *Br J Radiol.* 2016 Jul;89(1063):20160138. doi:10.1259/bjr.20160138. Epub 2016 Apr 25. PMID:27109738.

Corwin MT, Fananapazir G, Chaudhari AJ. MR Angiography of Renal Transplant Vasculature with Ferumoxytol:: Comparison of High-Resolution Steady-State and First-Pass Acquisitions. *Acad Radiol.* 2016 Mar;23(3):368-73. doi:10.1016/j.acra.2015.10.021. Epub 2015 Dec 18. PMID: 26707344.

© 2021 UC Regents