

# Stanford

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## Mirwais Wardak

Postdoctoral Research Fellow, Radiology

### Bio

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#### HONORS AND AWARDS

- Cardiovascular Council Young Investigator Award, Society of Nuclear Medicine and Molecular Imaging (June 2018)
- AAPM Young Investigator Award, American Association of Physicists in Medicine (May 2018)
- CVIS Fellow, Stanford University
- Edward J. Hoffman Graduate Fellowship, University of California, Los Angeles (September 2012)
- Alavi-Mandell Prize for Outstanding Original Article, Journal of Nuclear Medicine (June 2011)
- Sylvia Sorkin Greenfield Award, David Geffen School of Medicine at UCLA (October 2009)
- Nuclear Oncology Council Young Investigator Award, First Place, Society of Nuclear Medicine (June 2009)
- Brain Imaging Council Young Investigator Award, First Place, Society of Nuclear Medicine (June 2008)
- Fred S. Grodins Award for Academic Excellence in Biomedical Engineering, University of Southern California (May 2005)
- Summa Cum Laude, University of Southern California (December 2004)
- Elected to Tau Beta Pi Engineering Honor Society, University of Southern California (December 2002)

#### PROFESSIONAL EDUCATION

- Bachelor of Science, University of Southern California (2004)
- Master of Science, University of California Los Angeles (2011)
- Doctor of Philosophy, University of California Los Angeles (2013)

#### STANFORD ADVISORS

- Sanjiv Gambhir, Postdoctoral Faculty Sponsor
- Sanjiv Gambhir, Postdoctoral Research Mentor

#### PATENTS

- Mirwais Wardak, Sarah Hooper, Sanjiv Sam Gambhir. "United States Patent 62/825,714 SYSTEMS AND METHODS FOR SYNTHETIC MEDICAL IMAGE GENERATION", Leland Stanford Junior University, Mar 28, 2019
- Mirwais Wardak, Edwin Chang, Joseph C. Wu, Sanjiv Sam Gambhir. "United States Patent 62/749,305 PREVENTION AND TREATMENT OF TERATOMA FORMATION FOR STEM CELL THERAPIES USING TUMOR-TREATING FIELDS", Leland Stanford Junior University, Oct 23, 2018

### Publications

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#### PUBLICATIONS

- **Recent Advances in Imaging Inflammation Post-Myocardial Infarction Using Positron Emission Tomography** *CURRENT CARDIOVASCULAR IMAGING REPORTS*

D'Addabbo, J., Wardak, M., Nguyen, P. K.

2019; 12 (10)

- **68Ga-labeled exendin-4 to image cardiac repair after myocardial infarction: From lizard venom to laboratory and beyond.** *Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology*  
Wardak, M.  
2019
- **Identifying Hypoperfusion in Moyamoya Disease With Arterial Spin Labeling and an [15O]-Water Positron Emission Tomography/Magnetic Resonance Imaging Normative Database.** *Stroke*  
Fan, A. P., Khalighi, M. M., Guo, J., Ishii, Y., Rosenberg, J., Wardak, M., Park, J. H., Shen, B., Holley, D., Gandhi, H., Haywood, T., Singh, P., Steinberg, et al  
2019: STROKEAHA118023426
- **Simultaneous phase-contrast MRI and PET for noninvasive quantification of cerebral blood flow and reactivity in healthy subjects and patients with cerebrovascular disease.** *Journal of magnetic resonance imaging : JMRI*  
Ishii, Y., Thamm, T., Guo, J., Khalighi, M. M., Wardak, M., Holley, D., Gandhi, H., Park, J. H., Shen, B., Steinberg, G. K., Chin, F. T., Zaharchuk, G., Fan, et al  
2019
- **Molecular Imaging of Inflammation in Ischemic Heart Disease** *CURRENT CARDIOVASCULAR IMAGING REPORTS*  
Bakerman, I., Wardak, M., Nguyen, P. K.  
2018; 11 (6)
- **The Gift of Light: Using Multiplexed Optical Imaging to Probe Cardiac Metabolism in Health and Disease.** *Circulation. Cardiovascular imaging*  
Wardak, M., Nguyen, P. K.  
2018; 11 (3): e007597
- **Reply: 6"-18F-Fluoromaltotriose PET Evaluation in Escherichia-Coli-Induced Myositis: is there Uptake Saturation in Control?** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Wardak, M., Gowrishankar, G., Gambhir, S. S.  
2018
- **F-Fluoromaltotriose: A Second Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria.** *Journal of nuclear medicine*  
Gowrishankar, G., Hardy, J., Wardak, M., Namavari, M., Reeves, R., Neofytou, E., Srinivasan, A., Wu, J., Contag, C., Gambhir, S.  
2017
- **Automated Movement Correction for Dynamic PET/CT Images: Evaluation with Phantom and Patient Data** *PLOS ONE*  
Ye, H., Wong, K., Wardak, M., Dahlbom, M., Kepe, V., Barrio, J. R., Nelson, L. D., Small, G. W., Huang, S.  
2014; 9 (8)
- **F-18-FLT and F-18-FDOPA PET kinetics in recurrent brain tumors** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*  
Wardak, M., Schiepers, C., Cloughesy, T. F., Dahlbom, M., Phelps, M. E., Huang, S.  
2014; 41 (6): 1199-1209
- **Brain Imaging with Positron Emission Tomography: Quantification and Biomedical Applications in Alzheimer's Disease and Brain Tumors**  
Wardak, M.  
University of California, Los Angeles.  
2013 ; UCLA Theses and Dissertations
- **Automated VOI Analysis in FDDNP PET Using Structural Warping: Validation through Classification of Alzheimer's Disease Patients.** *International journal of Alzheimer's disease*  
Wilks, M. Q., Protas, H., Wardak, M., Kepe, V., Small, G. W., Barrio, J. R., Huang, S.  
2012; 2012: 512069-?
- **Discriminant Analysis of F-18-Fluorothymidine Kinetic Parameters to Predict Survival in Patients with Recurrent High-Grade Glioma** *CLINICAL CANCER RESEARCH*  
Wardak, M., Schiepers, C., Dahlbom, M., Cloughesy, T., Chen, W., Satyamurthy, N., Czernin, J., Phelps, M. E., Huang, S.  
2011; 17 (20): 6553-6562
- **A bootstrap method for identifying image regions affected by intra-scan body movement during a PET/CT scan** *IEEE Nuclear Science Symposium and Medical Imaging Conference Record*  
Huang, S. C., Ye, H., Wardak, M., Wong, K. P., Dahlbom, M., Shao, W., Small, G. W., Barrio, J. R.

2011: 2905-8

- **Quantitative analysis of [F-18]FDDNP PET using subcortical white matter as reference region** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*

Wong, K., Wardak, M., Shao, W., Dahlbom, M., Kepe, V., Liu, J., Satyamurthy, N., Small, G. W., Barrio, J. R., Huang, S.

2010; 37 (3): 575-588

- **Movement Correction Method for Human Brain PET Images: Application to Quantitative Analysis of Dynamic F-18-FDDNP Scans** *JOURNAL OF NUCLEAR MEDICINE*

Wardak, M., Wong, K., Shao, W., Dahlbom, M., Kepe, V., Satyamurthy, N., Small, G. W., Barrio, J. R., Huang, S.

2010; 51 (2): 210-218