Stanford



Michael Muelly

Clinical Assistant Professor, Radiology

CLINICAL OFFICE (PRIMARY)

- **Vision Radiology LLC**

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  Dallas, TX 75219

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Bio

CLINICAL FOCUS

- Body MRI
- Data-driven Medicine
- Diagnostic Radiology

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Radiology

PROFESSIONAL EDUCATION

- Board Certification: Diagnostic Radiology, American Board of Radiology (2017)
- Fellowship: Stanford University Body Imaging Fellowship (2017) CA
- Residency: Stanford University Radiology Residency (2016) CA
- Internship: Penn State Milton S Hershey Medical Center Surgery Residency (2012) PA
- Medical Education: Penn State College of Medicine Registrar (2011) PA
- Grad, Penn State University , Neural Engineering / Engineering Physics
- BS, University of Pittsburgh , Mathematics / Computer Science

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Machine learning in medicine

Publications

PUBLICATIONS

- **Analysis of Validation Performance of a Machine Learning Classifier in Interstitial Lung Disease Cases Without Definite or Probable Usual Interstitial Pneumonia Pattern on CT Using Clinical and Pathology-Supported Diagnostic Labels.** *Journal of imaging informatics in medicine*

Chang, M., Reicher, J. J., Kalra, A., Muelly, M., Ahmad, Y.
2024

- **Development and validation of a CT-based deep learning algorithm to augment non-invasive diagnosis of idiopathic pulmonary fibrosis.** *Respiratory medicine*
  Maddali, M. V., Kalra, A., Muelly, M., Reicher, J. J.
  2023: 107428

- **Computer-Aided Pulmonary Fibrosis Detection Leveraging an Advanced Artificial Intelligence Triage and Notification Software.** *Journal of clinical medicine research*
  Selvan, K. C., Kalra, A., Reicher, J., Muelly, M., Adegunsoye, A.
  2023; 15 (8-9): 423-429

- **Machine learning to distinguish lymphangioleiomyomatosis from other diffuse cystic lung diseases.** *Respiratory investigation*
  Jonas, A., Muelly, M., Gupta, N., Reicher, J. J.
  2022

- **Spotting brain bleeding after sparse training** *NATURE BIOMEDICAL ENGINEERING*
  Muelly, M. C., Peng, L.
  2019; 3 (3): 161-162

- **Generative Modeling for Small-Data Object Detection**
  Liu, L., Muelly, M., Deng, J., Pfister, T., Li, J., IEEE
  IEEE.2019: 6072–80

- **View-Sharing Artifact Reduction With Retrospective Compressed Sensing Reconstruction in the Context of Contrast-Enhanced Liver MRI for Hepatocellular Carcinoma (HCC) Screening.** *Journal of magnetic resonance imaging : JMRI*
  Shaikh, J., Stoddard, P. B., Levine, E. G., Roh, A. T., Saranathan, M., Chang, S. T., Muelly, M. C., Hargreaves, B. A., Vasanawala, S. S., Loening, A. M.
  2018

- **Sanity Checks for Saliency Maps**
  Adebayo, J., Gilmer, J., Muelly, M., Goodfellow, I., Hardt, M., Kim, B.
  edited by Bengio, S., Wallach, H., Larochelle, H., Grauman, K., CesaBianchi, N., Garnett, R.
  NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2018