Stanford

Jayne Seekins

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CLINICAL OFFICES

- **Diagnostic Radiology**

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Bio

CLINICAL FOCUS

- Pediatric Radiology

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Radiology - Pediatric Radiology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Medical Education: University of New England College of Osteopathic Medicine (2001) ME
- Board Certification: Diagnostic Radiology, American Board of Radiology (2006)
- Fellowship: Vanderbilt University- Monroe Carell Children's Hospital at Vanderbilt (2007) TN United States of America
- Fellowship: LPCH (2007) CA United States of America
- Residency: Medical University of South Carolina (2006) SC United States of America
- Residency: Drexel/Hahnemann University (2004) PA United States of America
- Internship: Frankford Hospitals (now Aria Health) (2002) PA United States of America
- Board Certification: Pediatric Radiology, American Board of Radiology (2008)

Teaching

COURSES

2021-22

- Introduction to Radiology: RAD 201 (Aut)

2020-21

- Introduction to Radiology: RAD 201 (Aut)

Publications

PUBLICATIONS

- **Machine-learning Approach to Differentiation of Benign and Malignant Peripheral Nerve Sheath Tumors: A Multicenter Study**
  Zhang, M., Tong, E., Hamrick, F., Pendleton, C., Smith, B., Hug, N., Mattonen, S., Napel, S., Spinner, R., Yeom, K., Wilson, T., Mahan, M.
  AMER ASSOC NEUROLOGICAL SURGEONS.2021

- **Machine-Learning Approach to Differentiation of Benign and Malignant Peripheral Nerve Sheath Tumors: A Multicenter Study.** *Neurosurgery*
  Zhang, M., Tong, E., Hamrick, F., Lee, E. H., Tam, L. T., Pendleton, C., Smith, B. W., Hug, N. F., Biswal, S., Seekins, J., Mattonen, S. A., Napel, S., Campen, et al
  2021

- **Deep COVID DeteCT: an international experience on COVID-19 lung detection and prognosis using chest CT.** *NPJ digital medicine*
  Lee, E. H., Zheng, J. n., Colak, E. n., Mohammadzadeh, M. n., Houshmand, G. n., Bevins, N. n., Kitamura, F. n., Altinmakas, E. n., Reis, E. P., Kim, J. K., Klochko, C. n., Han, M. n., Moradian, et al
  2021; 4 (1): 11

- **Differentiation of benign and malignant lymph nodes in pediatric patients on ferumoxytol-enhanced PET/MRI** *THERANOSTICS*
  Muehe, A., Siedek, F., Theruvath, A., Seekins, J., Spunt, S. L., Pribnow, A., Hazard, F., Liang, T., Daldrup-Link, H.
  2020; 10 (8): 3612–21

- **Deep learning to automate Brasfield chest radiographic scoring for cystic fibrosis** *JOURNAL OF CYSTIC FIBROSIS*
  Zucker, E. J., Barnes, Z. A., Lungren, M. P., Shpanskaya, Y., Seekins, J. M., Halabi, S. S., Larson, D. B.
  2020; 19 (1): 131–38

- **Deep learning to automate Brasfield chest radiographic scoring for cystic fibrosis.** *Journal of cystic fibrosis : official journal of the European Cystic Fibrosis Society*
  Zucker, E. J., Barnes, Z. A., Lungren, M. P., Shpanskaya, Y., Seekins, J. M., Halabi, S. S., Larson, D. B.
  2019

- **Human-machine partnership with artificial intelligence for chest radiograph diagnosis.** *NPJ digital medicine*
  Patel, B. N., Rosenberg, L. n., Willcox, G. n., Baltaxe, D. n., Lyons, M. n., Irvin, J. n., Rajpurkar, P. n., Amrhein, T. n., Gupta, R. n., Halabi, S. n., Langlotz, C. n., Lo, E. n., Mammarappallil, et al
  2019; 2: 111

- **CheXpert: A Large Chest Radiograph Dataset with Uncertainty Labels and Expert Comparison**
  Irvin, J., Rajpurkar, P., Ko, M., Yu, Y., Ciurea-Ilcus, S., Chute, C., Marklund, H., Haghgoo, B., Ball, R., Shpanskaya, K., Seekins, J., Mong, D. A., Halabi, et al
  ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2019: 590–97

- **Erratum: Author Correction: Human-machine partnership with artificial intelligence for chest radiograph diagnosis.** *NPJ digital medicine*
  Patel, B. N., Rosenberg, L. n., Willcox, G. n., Baltaxe, D. n., Lyons, M. n., Irvin, J. n., Rajpurkar, P. n., Amrhein, T. n., Gupta, R. n., Halabi, S. n., Langlotz, C. n., Lo, E. n., Mammarappallil, et al
  2019; 2: 129

- **Author Correction: Human-machine partnership with artificial intelligence for chest radiograph diagnosis.** *NPJ digital medicine*
  Patel, B. N., Rosenberg, L. n., Willcox, G. n., Baltaxe, D. n., Lyons, M. n., Irvin, J. n., Rajpurkar, P. n., Amrhein, T. n., Gupta, R. n., Halabi, S. n., Langlotz, C. n., Lo, E. n., Mammarappallil, et al
  2019; 2 (1): 129

- **Deep learning for chest radiograph diagnosis: A retrospective comparison of the CheXNeXt algorithm to practicing radiologists** *PLOS MEDICINE*
  Rajpurkar, P., Irvin, J., Ball, R. L., Zhu, K., Yang, B., Mehta, H., Duan, T., Ding, D., Bagul, A., Langlotz, C. P., Patel, B. N., Yeom, K. W., Shpanskaya, et al
  2018; 15 (11)

- **Deep learning for chest radiograph diagnosis: A retrospective comparison of the CheXNeXt algorithm to practicing radiologists.** *PLoS medicine*
  Rajpurkar, P., Irvin, J., Ball, R. L., Zhu, K., Yang, B., Mehta, H., Duan, T., Ding, D., Bagul, A., Langlotz, C. P., Patel, B. N., Yeom, K. W., Shpanskaya, et al
  2018; 15 (11): e1002686