

Stanford

Jayne Seekins

Clinical Associate Professor, Radiology - Pediatric Radiology

CLINICAL OFFICES

- **LPCH Pediatric Radiology**

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Bio

CLINICAL FOCUS

- Pediatric Radiology

ACADEMIC APPOINTMENTS

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

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Radiology Fellowships (2007) CA
- Fellowship: Vanderbilt University Medical Center (2007) TN
- Residency: Drexel University College of Medicine Radiology Residency (2004) PA
- Internship: Jefferson Frankford Hospital (2002) PA
- Medical Education: University of New England College of Osteopathic Medicine (2001) ME
- Board Certification: Diagnostic Radiology, American Board of Radiology (2006)
- Residency: Medical University of South Carolina (2006) SC United States of America
- Board Certification: Pediatric Radiology, American Board of Radiology (2008)

Teaching

COURSES

2023-24

- Introduction to Radiology: RAD 201 (Aut)

2022-23

- Introduction to Radiology: RAD 201 (Aut)

2021-22

- Introduction to Radiology: RAD 201 (Aut)

2020-21

- Introduction to Radiology: RAD 201 (Aut)

Publications

PUBLICATIONS

- **The influence of extracurricular activities on radiology resident selection decisions.** *Journal of the American College of Radiology : JACR*
Maxfield, C. M., Montano-Campos, J. F., Gould, J., Koontz, N. A., Milburn, J., Omofoye, T., Peterson, R., Seekins, J., Grimm, L.
2023
- **Brain Tumor Radiogenomic Classification of O6-Methylguanine-DNA Methyltransferase Promoter Methylation in Malignant Gliomas-Based Transfer Learning.** *Cancer control : journal of the Moffitt Cancer Center*
Sakly, H., Said, M., Seekins, J., Guetari, R., Kraiem, N., Marzougui, M.
2023; 30: 10732748231169149
- **Improved Detection of Bone Metastases in Children and Young Adults with Ferumoxytol-enhanced MRI.** *Radiology. Imaging cancer*
Rashidi, A., Baratto, L., Theruvath, A. J., Greene, E. B., Jayapal, P., Hawk, K. E., Lu, R., Seekins, J., Spunt, S. L., Pribnow, A., Daldrup-Link, H. E.
2023; 5 (2): e220080
- **MODIFIED ASSESSMENT OF COMPETENCY IN THORACIC SONOGRAPHY (ACTS) SCALE IN THE NICU AND PICU**
Dasani, R., Bhargava, V., Chan, B., Hamilton, C., Seekins, J., Halabi, S., Chen, D., Reddy, C., Hilgenberg, S., Haileselassie, B., Bhombal, S.
LIPPINCOTT WILLIAMS & WILKINS.2023: 302
- **Benchmarking saliency methods for chest X-ray interpretation** *NATURE MACHINE INTELLIGENCE*
Saporta, A., Gui, X., Agrawal, A., Pareek, A., Truong, S. H., Nguyen, C. T., Ngo, V., Seekins, J., Blankenberg, F. G., Ng, A. Y., Lungren, M. P., Rajpurkar, P.
2022
- **Imaging of pediatric testicular tumors: A COG Diagnostic Imaging Committee/SPR Oncology Committee White Paper.** *Pediatric blood & cancer*
Behr, G. G., Morani, A. C., Artunduaga, M., Desoky, S. M., Epelman, M., Friedman, J., Lala, S. V., Seekins, J., Towbin, A. J., Back, S. J.
2022: e29988
- **Imaging of pediatric ovarian tumors: A COG Diagnostic Imaging Committee/SPR Oncology Committee White Paper.** *Pediatric blood & cancer*
Behr, G. G., Morani, A. C., Artunduaga, M., Desoky, S. M., Epelman, M., Friedman, J., Lala, S. V., Seekins, J., Towbin, A. J., Back, S. J.
2022: e29995
- **Predictive Patterns of Pediatric PTLD on PET/MRI**
Jayapal, P., Sandberg, J., Seekins, J., Nadel, H.
SOC NUCLEAR MEDICINE INC.2022
- **Machine Learning Approach to Differentiation of Peripheral Schwannomas and Neurofibromas: A Multi-Center Study.** *Neuro-oncology*
Zhang, M., Tong, E., Wong, S., Hamrick, F., Mohammadzadeh, M., Rao, V., Pendleton, C., Smith, B. W., Hug, N. F., Biswal, S., Seekins, J., Napel, S., Spinner, et al
2021
- **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
- **Artificial Intelligence Algorithm Improves Radiologist Performance in Skeletal Age Assessment: A Prospective Multicenter Randomized Controlled Trial.** *Radiology*
Eng, D. K., Khandwala, N. B., Long, J., Fefferman, N. R., Lala, S. V., Strubel, N. A., Milla, S. S., Filice, R. W., Sharp, S. E., Towbin, A. J., Francavilla, M. L., Kaplan, S. L., Ecklund, et al
2021: 204021
- **Differentiation of benign and malignant lymph nodes in pediatric patients on ferumoxylol-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., Mammarrappallil, 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., Haghighi, 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., Mammarrappallil, 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., Mammarrappallil, 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