Stanford

# Jayne Seekins

Clinical Associate Professor, Radiology - Pediatric Radiology


### CLINICAL OFFICE (PRIMARY)

- **LPCH Pediatric Radiology**

  725 Welch Rd

  MC 5913

  Palo Alto, CA 94304

  **Tel** (650) 497-8376 **Fax** (650) 498-9865


## Bio

### CLINICAL FOCUS

- Pediatric Radiology

### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiology - Pediatric Radiology
- Member, Cardiovascular Institute
- 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

**2026-27**

- Introduction to Radiology: RAD 201 (Aut)

**2025-26**

- Introduction to Radiology: RAD 201 (Aut)

**2024-25**

- Introduction to Radiology: RAD 201 (Aut)

**2023-24**

- Introduction to Radiology: RAD 201 (Aut)

## Publications

### PUBLICATIONS

- **Status of LGBTQ+ inclusion: Multi-institution Assessment of US Radiology Residencies.** *Journal of the American College of Radiology : JACR*
  Perchik, J. D., Maxfield, C., Mills, M., Agarwal, A., Hull, N. C., Darrow, A., Wang, M., Cooke, E., Seekins, J., Marx, M., Wassef, H., Gould, J., Grimm, et al
  2024

- **Easier for the next 'Gen': Early success of one dose rTSH injection prior to I-131 radioligand therapy in children and teens**
  Seekins, J., Seeley, H., Meister, K., Nadel, H.
  SOC NUCLEAR MEDICINE INC.2024

- **Characterizing continuous positive airway pressure (CPAP) Belly Syndrome in preterm infants in the neonatal intensive care unit (NICU).** *Journal of perinatology : official journal of the California Perinatal Association*
  Gu, H., Seekins, J., Ritter, V., Halamek, L. P., Wall, J. K., Fuerch, J. H.
  2024

- **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

- **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. Q. H., Nguyen, C. D. 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 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