

# Stanford

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## Evan Zucker

Clinical Associate Professor, Radiology - Pediatric Radiology

### CLINICAL OFFICES

- **LPCH Radiology**

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- **Stanford Diagnostic Radiology**

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### Bio

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#### BIO

Dr. Zucker is a board-certified pediatric and cardiovascular radiologist with a special interest in CT and MRI for congenital heart disease.

#### CLINICAL FOCUS

- Diagnostic Radiology

#### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiology - Pediatric Radiology

#### PROFESSIONAL EDUCATION

- Board Certification: Cardiovascular Magnetic Resonance, Council for Certification in Cardiovascular Imaging
- Fellowship: Massachusetts General Hospital Dept of Radiology (2016) MA United States of America
- Fellowship: Lucile Packard Childrens Hospital Pediatric Radiology Fellowship (2014) CA
- Residency: Tufts Medical Center Radiology Residency (2013) MA
- Internship: Newton-Wellesley Hospital Transitional Year (2009) MA
- Board Certification: Cardiovascular Computed Tomography, Council for Certification in Cardiovascular Imaging (2016)
- Medical Education: Harvard Medical School (2008) MA
- Board Certification: Pediatric Radiology, American Board of Radiology (2015)
- Board Certification: Diagnostic Radiology, American Board of Radiology (2013)

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Research Mentor

Abdullah-Al-Zubaer Imran

## Publications

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### PUBLICATIONS

- **Computed tomography in tetralogy of Fallot: pre- and postoperative imaging evaluation.** *Pediatric radiology*  
Zucker, E. J.  
2021
- **Free-breathing Accelerated Cardiac MRI Using Deep Learning: Validation in Children and Young Adults.** *Radiology*  
Zucker, E. J., Sandino, C. M., Kino, A., Lai, P., Vasanawala, S. S.  
2021: 202624
- **Clinical use of shear-wave elastography for detecting liver fibrosis in children and adolescents with cystic fibrosis.** *Pediatric radiology*  
Levitte, S. n., Lee, L. W., Isaacson, J. n., Zucker, E. J., Milla, C. n., Barth, R. A., Sellers, Z. M.  
2021
- **Rosette Trajectories Enable Ungated, Motion-Robust, Simultaneous Cardiac and Liver T2 \* Iron Assessment.** *Journal of magnetic resonance imaging : JMRI*  
Bush, A. M., Sandino, C. M., Ramachandran, S., Ong, F., Dwork, N., Zucker, E. J., Syed, A. B., Pauly, J. M., Alley, M. T., Vasanawala, S. S.  
2020: e27196
- **Fungal endocarditis resembling primary cardiac malignancy in a patient with B-cell ALL with culture confirmation.** *Radiology case reports*  
Girod, B. J., Guja, K. E., Davidzon, G., Chan, F., Zucker, E., Franc, B. L., Moradi, F., Iagaru, A., Aparici, C. M.  
2020; 15 (2): 117–19
- **Image-based scaling laws for somatic growth and pulmonary artery morphometry from infant- to adulthood.** *American journal of physiology. Heart and circulatory physiology*  
Dong, M. L., Yang, W. n., Tamaresis, J. S., Chan, F. P., Zucker, E. J., Kumar, S. n., Rabinovitch, M. n., Marsden, A. L., Feinstein, J. A.  
2020
- **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
- **Cardiac MRI-guided interventional occlusion of ventricular septal rupture in a patient with cobalt alloy stent** *ANNALS OF TRANSLATIONAL MEDICINE*  
Zhong, W., Liu, Z., Fan, W., Hameed, I., Salemi, A., Butera, G., Zucker, E. J., Huang, C., Zhong, Z.  
2019; 7 (16)
- **Feasibility and utility of dual-energy chest CTA for preoperative planning in pediatric pulmonary artery reconstruction** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*  
Zucker, E. J., Kino, A., Schmiedeskamp, H., Hinostroza, V., Fleischmann, D., Chan, F. P.  
2019; 35 (8): 1473–81
- **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
- **Feasibility and utility of dual-energy chest CTA for preoperative planning in pediatric pulmonary artery reconstruction.** *The international journal of cardiovascular imaging*  
Zucker, E. J., Kino, A. n., Schmiedeskamp, H. n., Hinostroza, V. n., Fleischmann, D. n., Chan, F. P.  
2019

- **Cardiac MRI-guided interventional occlusion of ventricular septal rupture in a patient with cobalt alloy stent.** *Annals of translational medicine*  
Zhong, W. n., Liu, Z. n., Fan, W. n., Hameed, I. n., Salemi, A. n., Butera, G. n., Zucker, E. J., Huang, C. n., Zhong, Z. n.  
2019; 7 (16): 395
- **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
- **Lumbar Spine MRI: Missed Opportunities for Abdominal Aortic Aneurysm Detection.** *Current problems in diagnostic radiology*  
Zucker, E. J., Prabhakar, A. M.  
2019
- **Cross-sectional imaging of congenital pulmonary artery anomalies.** *The international journal of cardiovascular imaging*  
Zucker, E. J.  
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
- **Ultrafast pediatric chest computed tomography: comparison of free-breathing vs. breath-hold imaging with and without anesthesia in young children.** *Pediatric radiology*  
Kino, A., Zucker, E. J., Honkanen, A., Kneebone, J., Wang, J., Chan, F., Newman, B.  
2018
- **Deep-learning-assisted diagnosis for knee magnetic resonance imaging: Development and retrospective validation of MRNet.** *PLoS medicine*  
Bien, N., Rajpurkar, P., Ball, R. L., Irvin, J., Park, A., Jones, E., Bereket, M., Patel, B. N., Yeom, K. W., Shpanskaya, K., Halabi, S., Zucker, E., Fanton, et al  
2018; 15 (11): e1002699
- **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
- **Cross-sectional imaging of thoracic traumatic aortic injury.** *VASA. Zeitschrift für Gefasskrankheiten*  
Hahn, L. D., Prabhakar, A. M., Zucker, E. J.  
2018; 1–12
- **Perivascular Epicardial Fat Stranding at Coronary CT Angiography: A Marker of Acute Plaque Rupture and Spontaneous Coronary Artery Dissection** *RADIOLOGY*  
Hedgire, S., Baliyan, V., Zucker, E. J., Bittner, D. O., Staziaki, P. V., Takx, R. P., Scholtz, J., Meyersohn, N., Hoffmann, U., Ghoshhajra, B.  
2018; 287 (3): 808–15
- **Perivascular Epicardial Fat Stranding at Coronary CT Angiography: A Marker of Acute Plaque Rupture and Spontaneous Coronary Artery Dissection.** *Radiology*  
Hedgire, S., Baliyan, V., Zucker, E. J., Bittner, D. O., Staziaki, P. V., Takx, R. A., Scholtz, J., Meyersohn, N., Hoffmann, U., Ghoshhajra, B.  
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- **What Patients Want to Know about Imaging Examinations: A Multiinstitutional US Survey in Adult and Pediatric Teaching Hospitals on Patient Preferences for Receiving Information before Radiologic Examinations** *RADIOLOGY*  
Pahade, J. K., Trout, A. T., Zhang, B., Bhambhani, P., Muse, V. V., Delaney, L. R., Zucker, E. J., Pandharipande, P. V., Brink, J. A., Goske, M. J.  
2018; 287 (2): 554–62
- **Abdominal aortic aneurysm screening: concepts and controversies** *CARDIOVASCULAR DIAGNOSIS AND THERAPY*  
Zucker, E. J., Prabhakar, A. M.

2018; 8: S108–S117

- **Syndromes with aortic involvement: pictorial review** *CARDIOVASCULAR DIAGNOSIS AND THERAPY*  
Zucker, E. J.  
2018; 8: S71–S81
- **Advanced aortic imaging and intervention Preface** *CARDIOVASCULAR DIAGNOSIS AND THERAPY*  
Zucker, E. J., Prabhakar, A. M., Ganguli, S.  
2018; 8: S1–S2
- **Cyanotic Congenital Heart Disease : Essential Primer for the Practicing Radiologist** *RADIOLOGIC CLINICS OF NORTH AMERICA*  
Zucker, E. J., Koning, J. L., Lee, E. Y.  
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- **Free-breathing pediatric chest MRI: Performance of self-navigated golden-angle ordered conical ultrashort echo time acquisition.** *Journal of magnetic resonance imaging : JMRI*  
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- **Free-breathing pediatric chest MRI: Performance of self-navigated golden-angle ordered conical ultrashort echo time acquisition.** *Journal of magnetic resonance imaging : JMRI*  
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- **Abdominal Aortic Aneurysm Screening Practices: Impact of the 2014 U.S. Preventive Services Task Force Recommendations.** *Journal of the American College of Radiology*  
Zucker, E. J., Misono, A. S., Prabhakar, A. M.  
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- **Impact of California Computed Tomography Dose Legislation: Survey of Radiologists.** *Journal of medical imaging and radiation sciences*  
Zucker, E. J., Barth, R. A.  
2017; 48 (2): 144–50
- **Imaging of venous compression syndromes.** *Cardiovascular diagnosis and therapy*  
Zucker, E. J., Ganguli, S., Ghoshhajra, B. B., Gupta, R., Prabhakar, A. M.  
2016; 6 (6): 519–532
- **Hemodynamic safety and efficacy of ferumoxyl as an intravenous contrast agents in pediatric patients and young adults** *MAGNETIC RESONANCE IMAGING*  
Ning, P., Zucker, E. J., Wong, P., Vasanaawala, S. S.  
2016; 34 (2): 152–158
- **Hemodynamic safety and efficacy of ferumoxyl as an intravenous contrast agents in pediatric patients and young adults.** *Magnetic resonance imaging*  
Ning, P. n., Zucker, E. J., Wong, P. n., Vasanaawala, S. S.  
2016; 34 (2): 152–58
- **Perinatal Thoracic Mass Lesions: Pre- and Postnatal Imaging.** *Seminars in ultrasound, CT, and MR*  
Zucker, E. J., Epelman, M., Newman, B.  
2015; 36 (6): 501–521
- **Added Value of Radiologist Consultation for Pediatric Ultrasound: Implementation and Survey Assessment.** *AJR. American journal of roentgenology*  
Zucker, E. J., Newman, B., Larson, D. B., Rubesova, E., Barth, R. A.  
2015; 205 (4): 822–826
- **Radiologist Compliance With California CT Dose Reporting Requirements: A Single-Center Review of Pediatric Chest CT** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Zucker, E. J., Larson, D. B., Newman, B., Barth, R. A.

2015; 204 (4): 810-816

● **Hip Disorders in Children** *AMERICAN JOURNAL OF ROENTGENOLOGY*

Zucker, E. J., Lee, E. Y., Restrepo, R., Eisenberg, R. L.

2013; 201 (6): W776–W796