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Curriculum Vitae available Online

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Bio

CLINICAL FOCUS

- Congenital Heart Disease
- Diagnostic Radiology
- Radiology

ACADEMIC APPOINTMENTS

- Professor Emeritus-Hourly(UML), Radiology
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Radiology Fellowships (2000) CA
- Residency: Stanford University Radiology Residency (1999) CA
- Internship: Kaiser Permanente Oakland Internal Medicine Residency (1995) CA
- PhD Training: Stanford University Electrical Engineering (1990) CA
- Medical Education: University of California at San Francisco School of Medicine (1994) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (1999)

Publications

PUBLICATIONS

- **Improved Right Ventricular Energy Efficiency by 4-Dimensional Flow Magnetic Resonance Imaging After Harmony Valve Implantation** *JACC:Advances*

  Woo, J. P., Dong, M. L., Kong, F., McElhinney, D. B., Schiavone, N., Chan, F., Lui, G. K., Haddad, F., Bernstein, D., Marsden, A.

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- **Evolution of hemodynamic forces in the pulmonary tree with progressively worsening pulmonary arterial hypertension in pediatric patients.** *Biomechanics and modeling in mechanobiology*

Yang, W., Dong, M., Rabinovitch, M., Chan, F. P., Marsden, A. L., Feinstein, J. A.
2019

- **Repair of Untreated Older Patients with Tetralogy of Fallot with Major Aortopulmonary Collaterals.** *The Annals of thoracic surgery*
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  2018

- **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

- **Safety of ferumoxytol in children undergoing cardiac MRI under general anaesthesia.** *Cardiology in the young*
  Wise-Faberowski, L., Velasquez, N., Chan, F., Vasanawala, S., McElhinney, D. B., Ramamoorthy, C.
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- **Echocardiography-Derived Left Ventricular Outflow Tract Gradient and Left Ventricular Posterior Wall Thickening Are Associated with Outcomes for Anatomic Repair in Congenitally Corrected Transposition of the Great Arteries.** *Journal of the American Society of Echocardiography*
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- **Congenital Variants and Anomalies of the Aortic Arch.** *Radiographics*
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- **Computational simulation of postoperative pulmonary flow distribution in Alagille patients with peripheral pulmonary artery stenosis** *Computational simulation of postoperative pulmonary flow distribution in Alagille patients with peripheral pulmonary artery stenosis*
  Yang, W., Feinstein, J., Marsden, A., Vignon-Clementel, I.
  2017; 00: 1–10

- **A PET/MR Imaging Approach for the Integrated Assessment of Chemotherapy-induced Brain, Heart, and Bone Injuries in Pediatric Cancer Survivors: A Pilot Study.** *Radiology*
  Theruvath, A. J., Ilivitzki, A. n., Muehe, A. n., Theruvath, J. n., Gulaka, P. n., Kim, C. n., Luna-Fineman, S. n., Sakamoto, K. M., Yeom, K. W., Yang, P. n., Moseley, M. n., Chan, F. n., Daldrup-Link, et al
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- **Myocardial Bridges on Coronary Computed Tomography Angiography#- Correlation With Intravascular Ultrasound and Fractional Flow Reserve.** *Circulation journal : official journal of the Japanese Circulation Society*
  Forsdahl, S. H., Rogers, I. S., Schnittger, I. n., Tanaka, S. n., Kimura, T. n., Pargaonkar, V. S., Chan, F. P., Fleischmann, D. n., Tremmel, J. A., Becker, H. C.
  2017

- **Persistent fifth arch anomalies - broadening the spectrum to include a variation of double aortic arch vascular ring** *PEDIATRIC RADIOLOGY*
  Newman, B., Hanneman, K., Chan, F.
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- **CT-defined phenotype of pulmonary artery stenoses in Alagille syndrome** *PEDIATRIC RADIOLOGY*
  Rodriguez, R. M., Feinstein, J. A., Chan, F. P.
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- **Postoperative Outcomes of Children With Tetralogy of Fallot, Pulmonary Atresia, and Major Aortopulmonary Collaterals Undergoing Reconstruction of Occluded Pulmonary Artery Branches** *ANNALS OF THORACIC SURGERY*
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- **Pre- and Postoperative Imaging of the Aortic Root.** *Radiographics*
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- **Improved Quantification and Mapping of Anomalous Pulmonary Venous Flow With Four-Dimensional Phase-Contrast MRI and Interactive Streamline Rendering** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
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  Girard, E. E., Al-Ahmad, A., Rosenberg, J., Luong, R., Moore, T., Lauritsch, G., Chan, F., Lee, D. P., Fahrig, R.
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- **Computed Tomography and Magnetic Resonance Imaging in Neonates With Congenital Cardiovascular Disease** *SEMINARS IN ULTRASOUND CT AND MRI*
  Chan, F. P., Hanneman, K.
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- **Flow simulations and validation for the first cohort of patients undergoing the Y-graft Fontan procedure** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Yang, W., Chan, F. P., Reddy, V. M., Marsden, A. L., Feinstein, J. A.
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- **Technical feasibility and intermediate outcomes of using a handcrafted, area-preserving, bifurcated Y-graft modification of the Fontan procedure** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Martin, M. H., Feinstein, J. A., Chan, F. P., Marsden, A. L., Yang, W., Reddy, V. M.
  2015; 149 (1): 239-U381
- **Technical feasibility and intermediate outcomes of using a handcrafted, area-preserving, bifurcated Y-graft modification of the Fontan procedure.** *journal of thoracic and cardiovascular surgery*
  Martin, M. H., Feinstein, J. A., Chan, F. P., Marsden, A. L., Yang, W., Reddy, V. M.
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- **Pediatric CT quality management and improvement program** *PEDIATRIC RADIOLOGY*
  Larson, D. B., Molvin, L. Z., Wang, J., Chan, F. P., Newman, B., Fleischmann, D.
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- **Physiologic and molecular characterization of a murine model of right ventricular volume overload.** *American journal of physiology. Heart and circulatory physiology*
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  Girard, E., Moore, T., Lauritsch, G., Rosenberg, J., Al-Ahmad, A., Chan, F., Lee, D., Fahrig, R.
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- **Rapid Pediatric Cardiac Assessment of Flow and Ventricular Volume With Compressed Sensing Parallel Imaging Volumetric Cine Phase-Contrast MRI** *AMERICAN JOURNAL OF ROENTGENOLOGY*
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- **Computed tomography angiography in children with cardiovascular disease: low dose techniques and image quality** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
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- **COMPARISON OF CLINICAL AND SIMULATION RESULTS FOR THE STANFORD Y-GRAFT FONTAN PILOT TRIAL** *ASME Summer Bioengineering Conference (SBC)*
  Yang, W., Feinstein, J. A., Reddy, V. M., Chan, F. P., Marsden, A. L.
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- **Combined respiratory and cardiac triggering improves blood pool contrast-enhanced pediatric cardiovascular MRI** *PEDIATRIC RADIOLOGY*
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- **Computational Simulations for Aortic Coarctation: Representative Results From a Sampling of Patients** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*
  LaDisa, J. F., Figueroa, C. A., Vignon-Clementel, I. E., Kim, H. J., Xiao, N., Ellwein, L. M., Chan, F. P., Feinstein, J. A., Taylor, C. A.
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- **Computational Simulations Demonstrate Altered Wall Shear Stress in Aortic Coarctation Patients Treated by Resection with End-to-end Anastomosis** *CONGENITAL HEART DISEASE*
  LaDisa, J. F., Dholakia, R. J., Figueroa, C. A., Vignon-Clementel, I. E., Chan, F. P., Samyn, M. M., Cava, J. R., Taylor, C. A., Feinstein, J. A.
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- **Computational Fluid Dynamic Simulations of Aortic Coarctation Comparing the Effects of Surgical- and Stent-Based Treatments on Aortic Compliance and Ventricular Workload** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*

Coogan, J. S., Chan, F. P., Taylor, C. A., Feinstein, J. A.
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- **Congenital extrahepatic portosystemic shunt associated with heterotaxy and polysplenia** *PEDIATRIC RADIOLOGY*
  Newman, B., Feinstein, J. A., Cohen, R. A., Feingold, B., Kreutzer, J., Patel, H., Chan, F. P.
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- **Breathheld Autocalibrated Phase-Contrast Imaging** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Lew, C., Alley, M. T., Spielman, D. M., Bammer, R., Chan, F. P.
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- **A New Multiparameter Approach to Computational Simulation for Fontan Assessment and Redesign** *CONGENITAL HEART DISEASE*
  Marsden, A. L., Reddy, V. M., Shadden, S. C., Chan, F. P., Taylor, C. A., Feinstein, J. A.
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- **Pediatric Computed Tomographic Angiography: Imaging the Cardiovascular System Gently** *RADIOLOGIC CLINICS OF NORTH AMERICA*
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- **MR and CT imaging of the pediatric patient with structural heart disease.** *Seminars in thoracic and cardiovascular surgery. Pediatric cardiac surgery annual*
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- **Morphological studies of pulmonary arteriovenous shunting in a lamb model of superior cavopulmonary anastomosis** *PEDIATRIC CARDIOLOGY*
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- **Time-resolved three-dimensional imaging of the left atrium and pulmonary veins in the interventional suite - A comparison between muttisweep gated rotational three-dimensional reconstructed fluoroscopy and multislice computed tomography** *HEART RHYTHM*
  Al-Ahmad, A., Wigstroem, L., Sandner-Porkristl, D., Wang, P. J., Zei, P. C., Boese, J., Lauritsch, G., Moore, T., Chan, F., Fahrig, R.
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- **MR and CT imaging of the pediatric patient with structural heart disease.** *Seminars in thoracic and cardiovascular surgery*
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