Cardiac Imaging, Mechanics, and and Modeling Symposium - 2018

Stanford University: Clark Center, Room S362, 318 Campus Drive

9:00 AM	**Arrival + Continental Breakfast**
9:50 AM	**Welcome – Daniel Ennis, Stanford** (310-941-1677, Call/Text for Any Reason)
10:00 AM	**Opening Remarks – Alan Garfinkel, UCLA**
10:15 AM	**Session 1: Imaging Myocardial Structure and Function**
	Moderator – Daniel Ennis, Stanford University
	New Techniques for Imaging Cardiac Motion with MRI. **Mike Loecher, Stanford University**
	Evaluation of Cardiac Strains from DENSE MRI Using a Computational Deforming Phantom. **Ilya Verzhbinsky, Stanford University**
	Helix Angle Mobility During Systole Using High Resolution Cardiac Diffusion Tensor Imaging. **Kévin Moulin, Stanford University**
	Estimating Patient-specific Myofiber Strain from In Vivo MRI Data by Solving a Computational Model. **Luigi Perotti, UCLA**
	Improved MRI-based Measurement of the End-Systolic Pressure-Volume Relationship in Normal Sheep. **Mark Ratcliffe, SFVAMC**
12:30 PM	**Hosted Lunch**
1:30 PM	**Session 2: Mechanics of Growth and Remodeling in Heart Disease**
	Moderator – Luigi Perotti, UCLA
	A Longitudinal Study of Heart Failure - What Have We Learnt? **Ellen Kuhl, Stanford University**
	*Building Cardiac Chemical Exchange Saturation Transfer MRI into a Comprehensive Tool to Quantify Multi-scale Changes in Heart Fa*ilure. **Moriel Vandsburger, UC Berkeley**
	Mechano-Diffusion Based Growth Modeling. **Mehrzad Tartibi, UCSF**
	A Novel MRI-based Finite Element Modeling Framework for Studying Ischemic Mitral Regurgitation. **Yue Zhang, SFVAMC**
	Investigating the Effect of Ischemia on LV Remodeling. **Vicky Wang, SFVAMC**
3:30 PM	**Coffee Break**
4:00 PM	**Session 3: Modeling of the Whole Heart**
	Moderator – Vicky Wang, SFVAMC
	Understanding Drug-induced Arrhythmias with Multi-scale Modeling and Machine Learning. **Francisco Sahli, Stanford University**
	Cardiac Modeling Used to Optimize Calibration of Myocardium Mechanical Properties and Edge-to-Edge Interventions in Heart Valve Insufficiency. **Yaghoub Dabiri, UCSF**
	A high-resolution Whole Heart Computational Model: The Mechanical Importance of the Atria and Pericardium. **Julius Guccione, UCSF**
5:30 PM	**Group Discussion**
6:00 PM	**Closing Remarks – Daniel Ennis, Stanford University**
7:00 PM	Dinner (Self Sponsored). Bucca de Beppo (643 Emerson St, Palo Alto)