The Pediatric and Congenital Cardiovascular Magnetic Resonance program at the University of Michigan represents a collaboration between the Departments of Pediatrics and Radiology. We strive to be leaders in pediatric and congenital CMR in the realms of clinical care, research and education. We are an integrated part of the University of Michigan Congenital Heart Center, providing diagnostic CMR for patients from infants to adults with congenital heart disease. Members of our group have been highly involved in the Society for Cardiovascular Magnetic Resonance, serving on several committees and in leadership positions, as well as presenting many oral and poster abstracts at the Scientific Sessions and publishing in the Journal of Cardiovascular Magnetic Resonance.

**Faculty**

**Adam L. Dorfman, MD**: Dr. Dorfman is an Associate Professor of Pediatric Cardiology and Radiology, and is the co-director of congenital and pediatric CMR. He completed his pediatric residency and pediatric cardiology fellowship at Children’s Hospital Boston. He has been working with engineers at the University of Michigan and other centers, applying modeling techniques with clinical data to better understand pediatric and congenital heart disease.

**Prachi P. Agarwal, MBBS**: Dr. Agarwal is an Associate Professor of Cardiothoracic Radiology, and is the co-director of congenital and pediatric CMR. She completed her residency at All India Institute of Medical Sciences and her fellowship in cardiothoracic radiology at The Ottawa Hospital. She serves as the chair of the cardiac core committee of the American Board of Radiology. Her research interests include heart disease in psoriasis and strain imaging in hypertrophic cardiomyopathy.

**Jimmy C. Lu, MD**: Dr. Lu is an Assistant Professor of Pediatric Cardiology and Radiology. He completed his pediatric residency at Duke University, and his pediatric cardiology fellowship at the University of Michigan. His research interests are in myocardial deformation using speckle tracking echocardiography and feature tracking on CMR in congenital heart disease.

**Maryam Ghadimi Mahani, MD**: Dr. Ghadimi Mahani is an Assistant Professor of Pediatric and Cardiothoracic Radiology. She completed her residency at Shiraz University, and her fellowships in pediatric and cardiothoracic radiology at the University of Michigan.

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**Trainees**

<table>
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<tr>
<th>Year</th>
<th>Trainee</th>
<th>Current hospital</th>
</tr>
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<tbody>
<tr>
<td>2010-2011</td>
<td>Jimmy Lu, MD</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>2013-2014</td>
<td>Jason Christensen, MD</td>
<td>Vanderbilt University</td>
</tr>
<tr>
<td>2014-2015</td>
<td>Brandon Smith, MD</td>
<td>Akron Children’s Hospital</td>
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<td>2016-2017</td>
<td>Sara Swanson, MD, PhD</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>2017-2018</td>
<td>Karen Wu, MD</td>
<td>University of Michigan</td>
</tr>
</tbody>
</table>

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**Selected References**

*Lu JC, Ghadimi Mahani M, Agarwal PP, Cotts TB, Dorfman AL. Usefulness of Right Ventricular Free Wall Strain to Predict Quality of Life in “Repaired” Tetralogy of Fallot. Am J Cardiol 2013; 111:1644-9.*

*Christensen JT, Lu JC, Donohue JE, Yu S, Ghadimi Mahani M, Agarwal PP, Dorfman AL. Relation of Aortic Stiffness and Strain by Cardiovascular Magnetic Resonance Imaging to Age in Repaired Tetralogy of Fallot. Am J Cardiol 2014; 113:1031-5.*

*Smith BM, Dorfman AL, Yu S, Russell MW, Agarwal PP, Ghadimi Mahani M, Lu JC. Clinical Significance of Late Gadolinium Enhancement in Patients <20 years of Age with Hypertrophic Cardiomyopathy. Am J Cardiol 2014; 113:1234-9.*


* First presented in abstract form at SCMR