The San Diego Society of Echocardiography

From Image to Innovation:

The role of *3D Modeling* and *3D Printing* in Congenital Heart Disease



Justin Ryan, Ph.D.

Director & Research Scientist; Webster Foundation 3D Innovations (3DI) Lab; Rady Children's Health San Diego

Adjunct Professor; Department of Neurological Surgery, UC San Diego

2 CEUs
for Members with Paid Dues

Hybrid Meeting Join Us In Person!

See Justin's 3D Printed Models & Enter to Win Raffles (In Person Only)

Congenital heart disease presents some of the most complex and challenging anatomy to appreciate from traditional echo and cross-sectional images. In this presentation, Justin Ryan, PhD, will illustrate how 3D modeling and 3D printing can turn medical imaging into patient-specific representations of cardiovascular anatomy. The modeling has enabled clinicians to better visualize anatomy, plan patient-specific interventions, and communicate complex findings to team members and patients.

Through reviewing the history of implementation of 3D technologies at Rady Children's Health San Diego, the presentation will highlight how these emerging tools are reshaping preoperative planning for CHDs.



Thursday, December 10, 2026
6:00 – 8:00 PM

Scripps La Jolla Hospital
Schaetzel Building
9890 Genesee Ave
La Jolla, CA 92037

Dinner will be provided from 5:00 – 6:00 PM compliments of ***Lantheus***

Parking Vouchers Provided

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See You There!