



DEUTSCHES HERZZENTRUM BERLIN  
STIFTUNG DES BÜRGERLICHEN RECHTS

## Online 3D Workshop

**Postal address:** Augustenburger Platz 1  
13353 Berlin, Germany  
**Phone:** +49 30 4593 3320  
**Email:** echoakademie@dhzb.de

### Fees

2 days with workstation access  
750.00 Euro

2 days without workstation access  
200.00 Euro

The event can be followed via Twitter #3DWorkshop2022 thanks to our Twitter ambassadors who will share some of the concepts and collect the attendees' comments and questions for the faculty.

### Twitter ambassadors:



- @KardiologieHH
- @mirvatalasnag
- @echo\_stepbystep

### Who is this workshop aimed at?

Those who use #echofirst and want to learn more about how to use 3D in more detail but also those who wish to start their 3D endeavor.

During the online hands-on session we will use the GE Healthcare remote solution of the EchoPAC workstation. Prior knowledge in using the EchoPAC workstation is helpful but not necessary as we will have an introductory session at the beginning of the second day.

### How will you benefit from this workshop?

This workshop will convey the basic principles about the physical aspects, orientation and acquisition of 3D. Knowledge of these basic skills is of great importance as they will provide you with the tools to avoid the pitfalls of 3D.

You will also learn about the application of 3D.

To round off the workshop, you will learn the secrets behind how to create magic.

Organised by

[www.echoakademie.eu](http://www.echoakademie.eu)



**22 January 2022 – 23 January 2022**



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## Day 1: 08:00 – 17:30

### Course directors:

Prof. Volkmar Falk  
Dr. Nicolas Merke

### Faculty:

A. Hagendorff, D. Muraru  
H. Dreger, F. Knebel  
E. Romero, J. Knierim

**08:00– 08:10** Introduction **Nicolas Merke**

**08:10 – 09:00** 3D physics & orientation

**Andreas Hagendorff**

Discussion 15 min.

**09:15 – 10:45** Acquisition & application of 3D

-Part 1: Optimizing 3D acquisition

-Part 2: Implementation of 3D in the echo lab:

Clinical indication and added value–case based

**Denisa Muraru**

Discussion 15 min.

**11:00 – 11:30** Coffee break

**11:30 – 12:45** Surgeons' viewpoint in a  
teamwork approach: What is must have in 3D

**Volkmar Falk & Workstation: Elena Romero**

Discussion 15 min.

**13:00 – 14:00** Lunch break

**14:00 – 15:15** Interventionalists' viewpoint in a  
teamwork approach: What is must have in 3D

**Henryk Dreger & Workstation: Elena Romero**

Discussion 15 min.

**15:30 – 17:30** Knobology & postprocessing, let  
the magic happen

**Nicolas Merke & Fabian Knebel**

Discussion 15 min.



This workshop is GE-based, as we will use a GE EchoPAC workstation solution that will be provided as remote access.

Basic knowledge in using the workstation is helpful, and there will be a basic introduction on day 2 prior to the virtual hands-on session.

Although this workshop is GE-based, users of different providers can also attend, as many of the concepts are applicable irrespective of the machines being used.

3D echocardiography has improved significantly over the past years, especially – but not exclusively – in transesophageal echocardiography. 3D echocardiography is essential for the evaluation of valvular heart disease and for therapy planning. Furthermore, it continues to improve volume measurements by not relying on anatomical assumptions.

Acquiring meaningful 3D images requires knowledge of potential pitfalls and dedicated training.

This two-day online workshop will provide you with the basics of 3D and will teach you how to acquire and process 3D datasets.

We have prepared a combination of theoretical and practical hands-on sessions. Furthermore, you will gain insights on acquisition rules and on the application of 3D.

In the hands-on sessions, we will share our secrets on how the magic happens in the postprocessing process.

For personnel training purposes, you will have remote access to a workstation (WS) solution (GE EchoPAC).

At the end of every talk, there will be 30 to 45 minutes of workstation training focusing on the topic of the talk.

You will thus have the opportunity to work with real datasets to master the hands-on session on day 2.

## Day 2: 08:00 – 17:30

**08:00 – 09:00** Introduction to Workstation:

**Nicolas Merke & Elena Romero**

Discussion 15 min.

**09:15 – 10:15** LV: How to image and analyze 3D  
datasets

**Fabian Knebel & Nicolas Merke**

Discussion 15 min.

**10:30 – 11:30** RV: How to image and analyze 3D  
datasets

**Andreas Hagendorff & Denisa Muraru**

**11:30–11:45** Coffee break

**11:45 - 13:45** MV: How to image and analyze 3D  
datasets

**Nicolas Merke & Jan Knierim**

Discussion 15 min.

**14:00–15:00** Lunch break

**15:00 – 17:00** TV: How to image and analyze 3D  
datasets

**Denisa Muraru & Nicolas Merke**

Discussion 15 min.