

## **Bio**

Tea Gegenava is a postdoctoral research fellow/visiting scholar in the Department of Cardiovascular Imaging at Stanford University School of Medicine since January 2024. She has received her PhD from Leiden University Medical Center (LUMC, Leiden, The Netherlands), also MD and PhD from Tbilisi State Medical University (TSMU, Tbilisi, Georgia). Since 2015 she is an assistant professor at TSMU. In 2017 she became an ESC (European Society of Cardiology) fellow in cardiovascular imaging at Leiden University Medical Center, and since 2018 she was a PhD fellow at Leiden University medical Center, department of Cardiology. Her research focuses on multimodality cardiovascular imaging (echocardiography, cardiac CT, cardiac MRI), valvular heart disease, cardiovascular involvement in connective tissue disorders.

## **Honors & Awards**

- Erasmus plus staff exchange grant award (Chester University, Chester, UK)-2016
- European Society of Cardiology research fellowship grant award -2017
- Paul Dudley White International Scholar award, from American Heart Association-2019
- Paul Dudley White International Scholar award, from American Heart Association-2021
- DAAD (German Academic exchange service) GMR grant award-2023
- Fulbright Scholarship (IIE, USA)- 2023-2024

## **Education & Certification**

- PhD (Dr. Medicine), Leiden the Netherlands multimodality cardiovascular imaging-2017-2019. Thesis Defense-2023
- ESC fellowship, Leiden the Netherlands-2017-2019
- PhD (Dr. Medicine, Cardiology), Tbilisi state Medical University-2008
- General Cardiology certificate (Georgia, Republic of)-2008

## **Professional interests**

- General Cardiologist
- Cardiovascular imaging specialist (echocardiography-Transthoracic, transesophageal, cardiac CT, cardiac MRI)
- Research Scientist
- Educational Activity (teach undergraduate and postgraduate students)

## **Work Experience**

- General Cardiologist TSMU (Tbilisi, Georgia) University Hospital since 2010

- Assistant professor in the department of Internal Medicine (Cardiology, Pulmonology)- since 2015.
- Research Fellow, department of Cardiology, Leiden University Medical center, Leiden, The Netherlands (2017-2018)
- PhD Fellow Department of Cardiology, Leiden University Medical center, Leiden, The Netherlands (2018-2020)

## Publication List

## Publication List

### Dr. Tea Gegenava MD, PhD

1. Changes in Left Ventricular Global Longitudinal Strain after Transcatheter Aortic Valve Implantation according to Calcification Burden of the Thoracic Aorta.  
**Tea Gegenava** , E Mara Vollema , Alexander van Rosendael , Rachid Abou , Laurien Goedemans , Frank van der Kley , Arend de Weger , Nina Ajmone Marsan , Jeroen J Bax , Victoria Delgado .  
**J Am Soc Echocardiogr** . 2019 Sep;32(9):1058-1066.e2. doi: 10.1016/j.echo.2019.05.011. Epub 2019 Jul 13.
2. Prognostic Influence of Feature Tracking Multidetector Row Computed Tomography-Derived Left Ventricular Global Longitudinal Strain in Patients with Aortic Stenosis Treated With Transcatheter Aortic Valve Implantation.  
**Tea Gegenava** , Pieter van der Bijl , E Mara Vollema , Frank van der Kley , Arend de Weger , David Hautemann , Johan H C Reiber , Nina Ajmone Marsan , Jeroen J Bax , Victoria Delgado.  
**Am J Cardiol**. 2020 Mar 15;125(6):948-955. doi: 10.1016/j.amjcard.2019.12.024. Epub 2019 Dec 27.
3. Feature tracking computed tomography-derived left ventricular global longitudinal strain in patients with aortic stenosis: a comparative analysis with echocardiographic measurements.  
**Tea Gegenava** , Pieter van der Bijl , Kensuke Hirasawa , E Mara Vollema , Alexander van Rosendael , Frank van der Kley , Arend de Weger , David J Hautemann , Johan H C Reiber , Nina Ajmone Marsan , Jeroen J Bax , Victoria Delgado. **J Cardiovasc Comput Tomogr**. May-Jun 2020;14(3):240-245. doi: 10.1016/j.jcct.2019.11.004. Epub 2019 Dec 1.
4. Prognostic Value of Thoracic Aorta Calcification Burden in Patients Treated With TAVR.

**Tea Gegenava**, E Mara Vollema, Rachid Abou, Laurien Goedemans, Alexander van Rosendael, Frank van der Kley, Arend de Weger, Nina Ajmone Marsan, Jeroen J Bax, Victoria Delgado.

**JACC Cardiovasc Imaging**. 2019 Jan;12(1):216-217. doi: 10.1016/j.jcmg.2018.08.030. Epub 2018 Nov 15.

5. Left Ventricular Systolic Function in Patients with Systemic Lupus Erythematosus and Its Association with Cardiovascular Events.

**Tea Gegenava**, Maka Gegenava, Gerda M Steup-Beekman, Thomas W J Huizinga, Jeroen J Bax , Victoria Delgado , Nina Ajmone Marsan.

**J Am Soc Echocardiogr**. 2020 Sep;33(9):1116-1122. doi: 10.1016/j.echo.2020.04.018. Epub 2020 Jul 1.

6. Moderate Aortic Stenosis in Patients With Heart Failure and Reduced Ejection Fraction. Guillaume Jean , Nicolas M Van Mieghem , **Tea Gegenava**, Lennart van Gils, Jeremy Bernard , Marcel L Geleijnse , E Mara Vollema , Ikram El Azzouzi, Ernest Spitzer, Victoria Delgado, Jeroen J Bax, Philippe Pibarot, Marie-Annick Clavel. **J Am Coll Cardiol**. 2021 Jun 8;77(22):2796-2803. doi: 10.1016/j.jacc.2021.04.014.

7. Sclerodermic Cardiomyopathy-A State-of-the-Art Review.

Adrian Giucă, **Tea Gegenava**, Carmen Marina Mihai, Ciprian Jurcuț , Adrian Săftoiu, Diana Monica Gîrniță, Bogdan Alexandru Popescu, Nina Ajmone Marsan, Ruxandra Jurcuț. **Diagnostics** (Basel). 2022 Mar 9;12(3):669. doi: 10.3390/diagnostics12030669.

8. Prognostic Implications of Renal Dysfunction in Patients With Aortic Stenosis.

E Mara Vollema, Edgard A Prihadi, Arnold C T Ng, **Tea Gegenava**, Nina Ajmone Marsan, Jeroen J Bax, Victoria Delgado. **Am J Cardiol** . 2020 Apr 1;125(7):1108-1114. doi: 10.1016/j.amjcard. 2019.12.040. Epub 2020 Jan 9.

9. Comparison of left atrial strain measured by feature tracking computed tomography and speckle tracking echocardiography in patients with aortic stenosis.

Kensuke Hirasawa, Jurrien H Kuneman , Gurpreet K Singh, **Tea Gegenava** , David Hautemann, Johan H C Reiber, Nina Ajmone Marsan, Jeroen J Bax, Victoria Delgado.

**Eur Heart J Cardiovasc Imaging**. 2021 Dec 18;23(1):95-101. doi: 10.1093/ehjci/jeab166.

10. Mitral Valve Annulus Dimensions Assessment with Three-Dimensional Echocardiography Versus Computed Tomography: Implications for Transcatheter Interventions.

Kensuke Hirasawa , N Mai Vo, **Tea Gegenava**, Stephan Milhorini Pio, Suzanne E van Wijngaarden, Nina Ajmone Marsan, Jeroen J Bax, Victoria Delgado. **J Clin Med**. 2021 Feb 8;10(4):649. doi: 10.3390/jcm10040649.

11. Value of Global Longitudinal Strain for Identification and Monitoring of Left Ventricular Dysfunction in Becker Muscular Dystrophy.

Nienke M van de Velde, **Tea Gegenava**, Zaïda Koeks, Steele C Butcher, Arno Aw Roest, Jeroen J Bax, Douwe E Atsma, Pietro Spitali, Nina Ajmone Marsan, Erik H Niks. **Am J Cardiol**. 2022 Jan 1;162:170-176. doi: 10.1016/j.amjcard.2021.09.016. Epub 2021 Oct 29.

12. Comparison of the Quantity of Calcium in the Aortic Valve and the Coronary Arteries in Men Versus Women Who Underwent Transcatheter Aortic Valve Implantation. Gurpreet K Singh, E Mara Vollema, Jan Stassen, Alexander van Rosendael, **Tea Gegenava**, Frank van der Kley, Juhani Knuuti, Nina Ajmone Marsan, Victoria Delgado, Jeroen J Bax. **Am J Cardiol.** 2022 Nov 1;182:83-88. doi: 10.1016/j.amjcard.2022.07.008. Epub 2022 Aug 30.