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**Position:** Postdoc

**Date / Place of Birth:** July 29, 1987 / Tehran, Iran

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## **EDUCATION**

- Doctoral program in applied medical science at the Medical University of Vienna

10/2015 – 03/2022

- Master of Science in Biomedical Engineering at the Islamic Azad University, Science and Research Branch, Tehran, Iran

09/2011 – 09/2014

- Bachelor of Science in Electrical Engineering at the Islamic Azad University, Qazvin, Iran

01/2006 – 01/2010

## **RESEARCH AREAS**

- Computational fluids dynamic simulation of intra-cardiac flow fields
- Fluid-structure interaction simulation of heart valves
- Blood flow analysis of cardiac flow

## **AWARDS AND HONORS**

- Top Cited Article 2020-2021 in the journal of Artificial Organ for “The influence of Left Ventricular Assist Device inflow cannula position on thrombosis risk”
- yESAO Exchange Program Award 2020
- Oral Presentation Award at Young Scientist Association PhD Symposium 2021
- European Society of Biomechanics Student Award at 8<sup>th</sup> World Congress of Biomechanics 2018
- Best Poster Presentations at Young Scientist Association (YSA) Symposium 2016
- ASAO Poster Abstract Award 2022

## **PUBLICATIONS**

**Ghodrati M**, Khienwad T, Maurer A, Moscato F, Zonta F, Schima H, Aigner P. Validation of numerically simulated ventricular flow patterns during left ventricular assist device support. *Int J Artif Organs*. 2020 Feb 5;039139882090405.

**Ghodrati M**, Maurer A, Schlöglhofer T, Khienwad T, Zimpfer D, Beitzke D, Zonta F, Moscato F, Schima H, Aigner P. The influence of Left Ventricular Assist Device inflow cannula position on thrombosis risk. *Artif Organs*. 2020 Apr 17;aor.13705.

**Ghodrati M**, Schlöglhofer T, Maurer A, Khienwad T, Zimpfer D, Beitzke D, et al. Effects of the atrium on intraventricular flow patterns during mechanical circulatory support. *Int J Artif Organs*. 2021 Oct 29;039139882110560.

Khienwad T, Maurer A, **Ghodrati M**, Schlöglhofer T, Moscato F, Stoiber M, et al. Effect of Timings of the Lavare Cycle on the Ventricular Washout in an In Vitro Flow Visualization Setup. *ASAIO J*. 2020 Aug 19;(in press):13.

## **ORAL PEWSENTATION**

**Ghodrati M.**, Aigner P., Moscato F., Stoiber M., Schima H. Evaluation of Numerical Models in Simulation of Intraventricular Flow Pattern with Left Ventricular Assist Device Support. 44th European Society for Artificial Organs. 2017. Vienna, Austria. Oral Presentation.

**Ghodrati M.**, Aigner P., Moscato F., Stoiber M., Schima H. Evaluation of Periodic VAD-Speed changes on Intraventricular Flow Dynamics Using Numerical Simulation. 25th International Society for Mechanical Circulatory Support. 2017. Tucson, United States of America. Oral Presentation.

**Ghodrati M.**, Khienwad T., Moscato F., Zonta F., Schima H., Aigner P. Evaluation of atrial inflow condition on the intraventricular flow pattern. 45th European Society for Artificial Organs. 2018. Madrid, Spain. Oral Presentation.

**Ghodrati M.**, Zonta F., Moscato F., Aigner P., Schima H. Effect of atrial inflow conditions on ventricular flow pattern during mechanical circulatory support. 26th International Society for Mechanical Circulatory Support. 2018. Tokyo, Japan. Oral Presentation.

**Ghodrati M.**, Khienwad T., Maurer A., Moscato F., Zonta F., Schima H., Aigner P. Validation of CFD methods for intraventricular flow fields and the prediction of intraventricular thrombosis. 26th International Society for Mechanical Circulatory Support. 2018. Tokyo, Japan. Oral Presentation.

**Ghodrati M.**, Moscato F., Zonta F., Aigner P., Schima H. Evaluation of atrial inflow conditions on intraventricular flow pattern during mechanical circulatory support. 25th Congress of the European Society of Biomechanics. 2019. Vienna, Austria. Oral Presentation.

**Ghodrati M.**, Schlöglhofer T., Khienwad T., Moscato F., Zonta F., Zimpfer D., Aigner P., Schima H. The atrial vortex ring influences the ventricular flow pattern in the assisted heart. The 8<sup>th</sup> meeting of the International Federation for Artificial Organs. 2019. Osaka, Japan. Oral Presentation.

**Ghodrati M.**, Khienwad T., Maurer A., Schlöglhofer T., Moscato F., Zonta F., Gross C., Aigner P., Schima H. Investigation of the apical flow field under left ventricular assist device support. 27<sup>th</sup> Annual Meeting of the International Society for Mechanical Circulatory Support. 2019. Bologna, Italy. Oral Presentation.

Vienna, Austria

April 25, 2022

A handwritten signature in black ink, appearing to read 'Ghodrati M.', written in a cursive style.