

Institut of Process Engineering Chair of Mechanical Process Engineering

Wiss. Mitarbeiter/-in M.Sc. Kian Karimian

Fakultät für Verfahrens- und Systemtechnik Institut für Verfahrenstechnik Lehrstuhl Mechanische Verfahrenstechnik

Universitätsplatz 2, 39106 Magdeburg, G10-223

Tel.: 0391 67-51866

≤kian.karimian@ovgu.de

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Kian Karimian studied Engineering Science (Physikalische Ingenieurwissenschaften) at the Technical University Berlin and graduated as Master of Science in 2020. His studies were mainly focused on fluid and solid mechanics as well as numerical simulation methods. Besides, he worked as a student research assistant at the Fraunhofer Institute for Production Systems and Design Technology and carried out experimental and modeling work in the field of electrical discharge machining. After his graduation, Kian joined the Institute of Solid Mechanics at the Technical University Braunschweig as a doctoral research assista During this time, he researched the micromechanical characterization and three-dimensional modeling of oocytes and gave exercises on Continuum Mechanics, Mechanics of Materials and Scientific Programming.

In 2022, Kian joined the Emmy-Noether Group for Dispersed Multiphase Flows at the Chair of Mechanical Process Engineering Magdeburg. His work is dedicated towards modeling the cultivation of human mesenchymal stem cells on microcarriers disperse in a stirred tank reactor, elucidating the small-scale interaction between the prevailing flow field and the dispersion, proliferation and metabolic behavior of stem cells.

Since 2022	Research Assistant / PhD student
	Emmy Noether Group for Dispersed Multiphase Flows
	Otto-von-Guericke University Magdeburg
2020 – 2022	Research Assistant / PhD student
	Institute of Solid Mechanics
	TU Braunschweig
2017 – 2020	Student Reasearch Assistant
	Fraunhofer Institute for Production Systems and Design Technology

2014 - 2020

TU Berlin

Key words

- Population balancesLarge eddy simulation
- Stirred-tank bioreactors
- Dense particulate flowsStem cell kinetics