

Curriculum Vitae

Yu Jiao (Family Name: Jiao)

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AREAS OF RESEARCH

- Compressible multi-component flow
- Techniques of Flow Control/Flow Drag Reduction
- Aerodynamics
- Cavitation
- Mechanisms of Heat Transfer Enhancement
- Computational Fluid Mechanics

EDUCATION

11/2020-Present **Technische Universität München (TUM), Germany.**
A PhD candidate of Institute of Aerodynamics and Fluid Mechanics.
09/2017-01/2020 **Tianjin University (TJU), China.**
Master of Engineering in Engineering Thermophysics.
09/2013-06/2017 **China University of Mining and Technology (CUMT), China.**
Bachelor of Engineering in Energy and Power Engineering.

PUBLICATIONS

Published (IF = 5.584) Wang Jiansheng, **Jiao Yu**, Liu Xueling, *Heat transfer and flow characteristics in a rectangular channel with small scale vortex generators*, International Journal of Heat and Mass Transfer, Volume 138(2019).
Published (IF = 3.744) **Yu Jiao**, Jiansheng Wang, Xueling Liu, *Heat transfer and flow characteristics in a rectangular channel with miniature cuboid vortex generators in various arrangement*, International Journal of Thermal Sciences, Volume 153(2020).
Published (IF = 5.584) **Yu Jiao**, Jiansheng Wang, Xueling Liu, *Flow field characteristic and heat transfer performance in a channel with miniature square filament*, International Journal of Heat and Mass Transfer, Volume 163(2020).
Published (IF = 6.165) Shuting Yao, Jiansheng Wang, Xueling Liu, **Yu Jiao**, *The effects of surface topography and non-uniform wettability on fluid flow and interface slip in rough nanochannel*, Journal of Molecular Liquids, Volume 301(2020).
Patent Pending **Chinese Invention Patent** “The size design and arrangement form of an adaptive deformable miniature cuboid vortex generator”, CHN, No.201910691332.1.
Patent Pending **Chinese Invention Patent** “An implementation method of flow control”, CHN, No.201910804157.2.

OVERSEAS EXPERIENCE (SHORT-TERM)

Japan-Asia Youth Science and Technology Exchange Program (Sakura Science Program).
7/7/2018-16/7/2018

- Fully funded by Japan Science and Technology Agency.
- Conducted experiments on thickness measurements of the various liquid film during bubble coalescence process at Yokohama National University.
- Attended academic exchange in National Institute of Advanced Industrial Science and Technology (AIST)/Tamagawa University/Aoyama Gakuin University.

PART OF HONOURS AND AWARDS

Scholarship

- **Postgraduate National Scholarship, Chinese Ministry of Education**, Nov. 2019.
- **National Scholarship, Chinese Ministry of Education**, Nov. 2016.
- Outstanding Graduate Scholarship, CUMT, Jun. 2017.
- The Postgraduate Admission Scholarship, TJU, Oct. 2017.
- The first-class Postgraduate Academic Scholarship, TJU, Oct. 2017.
- “Top 10 Outstanding Youth” Scholarship, School of Mechanical Engineering of TJU, May, 2019.

Academic Performance

- The **National 1st Prize** of the 8th National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction, Chinese Ministry of Education, Aug. 2015.
- Award of “**Excellent Graduate**”, TJU, Dec. 2019.
- Award of “**Excellent Graduate**”, CUMT, Jun. 2017.
- Award of “**Excellent Bachelor Thesis**” for diploma project “*Study on the Effect and Evolution Mechanism of Turbulent Vortex in Heat Transfer Enhancement*”, CUMT, Jun. 2017.

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