



Artem Skrypnik
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Dr.-ing. Artem Skrypnik

About Me Nowadays I am working as a PostDoc at the Chair of Transport processes at interfaces Technische Universität Dresden, Germany.

Working Experience

May 2021– Present, *PostDoc*

Emmy-Noether Research Group — Towards Fluid Dynamics of Foam and Froth

Responsibilities:

- X-Ray radiography of a foam flow;
- Neutron radiography

September 2019– April 2021, *Vice dean*

Institute for Aviation, Land Transportation and Power Engineering, KNRTU-KAI

Responsibilities:

- Educational activities;
- Master programs
- **Coordinator** for double diploma master programm, "Chemical and Energy Engineering"(GRIAT)

February 2019– Present, *Research Fellow, Laboratory of Modelling Physical-Technical Processes*

Responsibilities:

- Experimental and numerical research of various types heat transfer intensifiers

September 2017 – January 2019, *Assistant, Laboratory of Modelling Physical-Technical Processes*

Responsibilities:

- Experimental and numerical research of various types heat transfer intensifiers
- Laboratory and practice works for students

May 2014 – September 2016, *Assistant in laboratory of Modeling Physical-Technical Processes*

Research Experience

2021-Present, *Emmy-Noether Research Group Towards Fluid Dynamics of Foam and Froth*

Application of the X-Ray radiography on a measurement of velocity and particle distribution inside a foam flow channel.

2019-2021, *Grant from Russian Foundation for Basic Research for young scientists in cooperation with Belarus Republic :*

Team Leader:

- Heat transfer enhancement by forced and mixed inhomogeneous gas convection in finned tube bundles



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2017-2019, Grant from Russian Foundation for Basic Research for young scientists in cooperation with Belarus Republic

Participant:

- Experimental investigations of the heat transfer (natural convection, advection) for the flow and heat transfer in the ducts with heat-release surfaces with micro- and macroreliefs including heat-release surfaces produced by deformational cutting method

2016, Federal Special Purpose Program "Research and development in priority areas of Russian scientific and technological complex for 2014-2020"

- Engineer

2015-2017, Grant from Russian Foundation for young scientists

Team Leader:

- Experimental and numerical studies of hydraulic resistance and heat transfer at swirling flows over the surface in tubes.

2013-2016, Grant from Russian Foundation for Basic Research

Participant:

- Investigations of thermal-hydraulic efficiency of heat exchangers with different types of intensifiers

Education

09.2011-07.2015 , KNRTU-KAI

Bachelor of Power and Energy Engineering

With Honors, Grade Point Average: 5.0 ('A' in ECTS)

01.09.2015-07.08.2017, Otto von Guericke University, Magdeburg

Master of Science, (Average grade 1.3)-"Numerical simulation of energy transfers in a helically-corrugated pipe heat exchanger"

Faculty of Process and Systems Engineering course of study: Chemical and Energy Engineering

Double diploma programm.

01.10.2017-30.09.2020, PhD, KNRTU-KAI

"Hydraulic resistance and heat transfer for a single-phase flow in pipes with inner helical finning"

Language Skills

English — IELTS Exam (13.05.2016)

Overall band score–6.5

German — A2–B1

Skills

Python, MatLab, Star-CCM+, Ansys Fluent, Latex,



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PIV

Publications

<https://orcid.org/0000-0002-3472-3421>

Sphere of interest

X-Ray radiography

Fluid dynamics of a foam flow **PIV**

Particle Image Velocimetry and it's applications **Numerical methods**

Statistics

Neural networks

Artificial intelligence in engineering
