

# Curriculum vitae

## PERSONAL DETAILS

Name: Matthias H. Buschmann  
Study: 1980 – 1985  
Fluid Mechanics and Thermodynamics University of Dresden  
PhD awarded: 1992 University of Dresden (Germany)  
Habilitation awarded: 2002 University of Dresden (Germany)  
CIG COST Action Chair 03/2020-12/2021 ([Action IG15119 - COST](#))  
Current position: 09/2004 up to now  
Project Coordinator and Principal Investigator  
Institut für Luft- und Kältetechnik gGmbH Dresden  
Associate Professor University of Dresden

## RESEARCH INTERESTS

I am a theoretician in fluid mechanics but also highly interested in heat transfer experiments. I completed my studies at the Universities Karlsruhe (Germany) and Melbourne (Australia). My research interests include phase change heat transfer, multiphase heat and mass transfer and wall bounded turbulence.

## RECENT RESEARCH PROJECTS

- Thermophysical properties and heat transfer of liquid gallium alloys (experimental)
- Thermosyphons / oscillating heat pipes operated with suspensions (experimental)
- Numerical and experimental investigation of the transport of aerosols loaded with SARS-CoV-2 viruses (experimental / numerical)
- Ferronanofluids for convective heat transfer (experimental)
- Fractal turbulence enhancing heat and mass transfer (experimental)