

Overview

I am a PhD student at Aarhus University, specializing in Mechanical Engineering. My research centers on turbulent flow control and relaminarization over both smooth and rough surfaces, with applications in piping systems and the maritime industry. My primary focus is on identifying and implementing effective active and passive flow control strategies to enhance energy-efficient drag reduction in fluid mechanics systems.

My academic interests encompass wall-bounded flows, which I study using Direct Numerical Simulation (DNS) and Large Eddy Simulation (LES) techniques, along with experimental investigations.

Employment

Since Aug. 2022 Ph.D. Fellow at the Mechanical & Production Engineering Department at Aarhus University, Aarhus, Denmark.

Education

Since Aug. 2022 Ph.D. Student in Mechanical Engineering, Aarhus University, Aarhus, Denmark.

•Ph.D. Project: Turbulent Flow Control: Turbulent Drag Reduction Over Rough Surfaces

2018–2021 M.Sc. in Mechanical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran.

Research Interests

oHigh-Fidelity Numerical Simulations

oTurbulent Flow Control

oPhysics of Wall-Bounded Flows

Languages

Persian Native

English Professional Proficiency