

## PERSONAL INFORMATION



## SENOL KUPELI

Email: shenol.kyupeli@city.ac.uk

Birthplace: Istanbul/Turkey

Nationality: Bulgarian, Turkish

## WORK EXPERIENCE

(08. 2022 - ongoing)

### Marie Curie Research Fellow

City, University of London, London/ United Kingdom

- LES of liquid-natural gas mixing in dual fuel injector

(11. 2021 - 07. 2022)

### Master Thesis Student

Von Karman Institute for Fluid Dynamics, Brussels/ Belgium

- Integration of the rotating detonation engines with high pressure turbines using CFD++ software

(05. 2021 - 11. 2021)

### Research Intern - Combustion Simulation

Von Karman Institute for Fluid Dynamics, Brussels/ Belgium

- Rotating detonation engine simulations on OpenFOAM Platform
- Development of the high-fidelity solver for the detonation simulation in OpenFOAM Platform

(10. 2020 - 04. 2021)

### Intern - System Simulation

Alfred Kärcher SE Co. & KG, Stuttgart

- Modelling and analysis of a thermal simulation model with the softwareTwinBuilder
- Coupling of Systems- and CFD- Simulation withANSYS software
- Abstraction of a systems model in order to describe the fluid dynamics behavior of an high pressure device
- Modeling of a systems model for the high-pressure washer and comparison to measurements

(02. 2020 - 04. 2020)

### Student Assistant

Institute of Aerodynamics und Gas Dynamics, University of Stuttgart

- Evaluation of DNS results in boundary layers with two-point correlation function
- Programming with Python

(11. 2018 - 10. 2019)

### Student Assistant

Institute of AerospaceThermodynamics, University of Stuttgart

- Carrying out thermal experiments with high temperature measurement techniques
- Programming with LabVIEW

## EDUCATION

(10.2018 – 07.2022)

### M.Sc. in Aeronautical und Aerospace Engineering

University of Stuttgart, Germany

- Focus: Turbomachinery, Aerodynamics and Heat transfer
- Master Thesis: Integration of HP-turbines with pressure gain combustors

(09.2014 - 07.2015)

### Erasmus Exchange Program

Fachhochschule Kiel, Germany

- Focus: Ship propulsion (Duration: 2 Semesters)

(09.2011 - 06.2017)

### B.Sc. in Naval Architecture and Marine Engineering

Yildiz Technical University, Istanbul / Turkey

- Focus: Heat Transfer, Fluid Mechanics
- Bachelor Thesis: Experimental Investigation of Taylor-Couette Flow

## PERSONAL SKILLS

Languages

Turkish (**Native**)  
German (**Fluent**)  
English (**Fluent**)

Computer Skills

Catia	Intermediate
SolidWorks	Advanced
ANSYS Fluent	Intermediate
ANSYS TwinBuilder	Intermediate
OpenFOAM	Intermediate
CFD++	Intermediate
LabVIEW	Intermediate
Matlab	Intermediate
C++	Intermediate
Python	Intermediate
Fortran	Basic
MS Office	Intermediate

References

Dr. Bayindir Saracoglu, saracog@vki.ac.be, von Karman Institute for Fluid Dynamics  
Dr.-Ing. Uwe Gaisbauer, gaisbauer@iag.uni-stuttgart.de, University of Stuttgart  
Dr.-Ing. Markus Kloker, markus.kloker@iag.uni-stuttgart.de, University of Stuttgart