



Filip Jurić

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WORK EXPERIENCE

 **FACULTY OF MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE, UNIVERSITY OF ZAGREB** – ZAGREB, CROATIA

HIGHER EDUCATION POSTDOCTORAL RESEARCHER – 1 JUL 2023 – CURRENT

Department of Energy, Power and Environmental Engineering
Power Engineering and Energy Management Chair

 **FACULTY OF MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE, UNIVERSITY OF ZAGREB** – ZAGREB, CROATIA

HIGHER EDUCATION ASSISTANT RESEARCHER – 2016 – 2023

Department of Energy, Power and Environmental Engineering
Power Engineering and Energy Management Chair

Title of PhD: "Numerical Modelling of Radiative Heat Transfer and Tabulated Chemical Kinetics in Multiphase Reactive Processes"

Financing from AVL AST GmbH Graz, for software development of radiative heat transfer models and pretabulated multiphase reactive flows

 **FACULTY OF MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE, UNIVERSITY OF ZAGREB** – ZAGREB, CROATIA

DEMONSTRATOR – 2015 – 2016

Heat and Process Engineering Chair

EDUCATION AND TRAINING

2017 – 2023 Zagreb, Croatia

PHD IN MECHANICAL ENGINEERING, DR. SC. Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb

Process and Energy Engineering

Title of PhD: "Numerical Modelling of Radiative Heat Transfer and Tabulated Chemical Kinetics in Multiphase Reactive Processes"

Financing from AVL AST GmbH Graz, for software development of radiative heat transfer models and pretabulated multiphase reactive flows

2015 – 2016 Zagreb, Croatia

MASTER DEGREE IN MECHANICAL ENGINEERING, MAG.ING.MECH. Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb

Process and Energy Engineering

2011 – 2015 Zagreb, Croatia

BACHELOR DEGREE IN MECHANICAL ENGINEERING, BACC. ING. MECH. Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb

Process and Energy Engineering

● PROJECTS

1 SEP 2025 – CURRENT

SWIM: Sustainable Water and Integrated Management of Fish Migration and their Habitats in the Danube River Basin and NW Black Sea

SWIM [HORIZON-MISS-2024-OCEAN-01-02 - Danube river basin lighthouse – Protection and restoration of migratory fish habitats](#) Grant agreement ID: 101215230

Project manager, Coordinating project, Co-authored project proposal

Link <https://cordis.europa.eu/project/id/101215230>

1 SEP 2025 – CURRENT

SoS2LearnDBS: Source to Sea: Leveraging community knowledge and action for restoring the Danube River basin and the Black Sea region

SoS2LearnDBS [HORIZON-MISS-2024-OCEAN-02-01 - Community-led actions to restore our ocean, seas and waters](#)

Grant agreement ID: 101217667

Project manager, WP6 leader for the digital portal development, Co-authored project proposal

Link <https://cordis.europa.eu/project/id/101217667>

1 JAN 2025 – CURRENT

DANSER - DANube SEDiment Restoration: towards the deployment and upscaling of sustainable management of the sediments across the Danube catchment basin

DANSER HORIZON-MISS-2023-OCEAN-01-02 - Danube river basin lighthouse – Demonstration of effective and sustainable management of sediments in the Danube river-Black sea system Grant agreement ID: 101157942

Project manager and partner responsible for digital portal development, Co-authored project proposal

Link <https://danserproject.eu/>

1 JUN 2023 – CURRENT

DaWetRest - Danube Wetlands and flood plains Restoration through systemic, community engaged and sustainable innovative actions

HORIZON-MISS-2022-OCEAN-01; **Gran agreement ID:** 101113015

Project manager and WP3 leader for digital portal development

Link <https://dawetrest.eu/>

1 JAN 2023 – CURRENT

EcoDaLLi - ECOSystem-based governance with DANube lighthouse Living Lab for sustainable Innovation processes

HORIZON-MISS-2021-OCEAN-02, **Grant agreement ID:** 101093908

Project manager and WP6 leader for digital portal development

Link <https://ecodalli.eu/>

APR 2020 – APR 2023

Development system for testing multiphase flows and combustion with the aim of increasing research activities of the scientific and business sector

<https://cfhd.hr/resin/>

2019 – OCT 2020

Interreg Euro-MED BLUE DEAL - Blue Energy Deployment Alliance Interreg MED project

Research assistant

2016 – 2019

Interreg Euro-MED PELAGOS - Promoting innovative nEtworks and cLusters for mArine renewable energy synerGies in medit

Research assistant

2016 – 2018

Interreg Euro-MED PRISMI - Promoting RES Integration for Smart Mediterranean Islands

Research associate

APR 2021 – DEC 2021

European Climate Initiative (EUKI): Alpe-Adria clean transport alliance (AaCTA)

Services of external expert

2016 – 2019

Phoenix - People for the European bioEnergy mix

Participated as staff in mobility of the project H2020-EU.1.3.3. MSCA-RISE-2015 projekt 690925

2017 – 2023

Numerical simulation of combustion and emissions of harmful flue gases and greenhouse gases with special emphasis on carbon dioxide

Industrial project with AVL AST GmbH, Graz

Software development for Computational Fluid Dynamics code AVL Fire

Development of radiation heat transfer models and pretabulated multiphase reactive flows

2019 – 2021

Study of Biomass Combustion Process with Emphasis on Pollutant Formation

Member of the research team of the Croatian-Chinese bilateral project

2017 – 2019

Water collection from flue gases

Member of the research team of the Croatian-Chinese bilateral project

PUBLICATIONS

[Google Scholar profile](#)

Reviewed over 130 scientific papers

Renewable and Sustainable Energy Reviews, Artificial Intelligence Review, Journal of Cleaner Production, Fuel, Applied Thermal Engineering, International Journal of Thermal Science, Journal of Environmental Management, Combustion Science and Technology, Applied Science, International Journal for Engineering Modelling, Journal of Advanced Research in Applied Science and Engineering Technology, Journal of Marine Science and Engineering, Open Physics, Thermal Science, and Energy Sources, Part A: Recovery, Utilisation, and Environmental Effects...

LANGUAGE SKILLS

Mother tongue(s): **CROATIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
GERMAN	B1	B2	B1	B1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

MS Office (Word Excel PowerPoint) | Fortran | SOLIDWORKS | AutoDesk Inventor | AutoCAD | AVL Fire | ANSYS Fluent | HTML CSS | Python | C++ basics | Linux user level | EnergyPLAN | Matlab/SIMULINK

● NETWORKS AND MEMBERSHIPS

Memberships

Member of [Adria Section of the Combustion Institute](#)
Scientific Advisory Board Member of [SDEWES](#)

● CONFERENCES AND SEMINARS

Conferences

Scientific Advisory Board Member and Special Session Organizer of 20th SDEWES 2025 Dubrovnik
SpliTech 2025
1st African SDEWES Conference 2025 Oujda-Saidia
2nd Asia Pacific SDEWES Conference 2024 Gold Coast
Local Organizing Committee of 18th SDEWES 2023 Dubrovnik
SpliTech 2023
Local Organizing Committee of 17th SDEWES 2022 Paphos
39th International Symposium on Combustion Vancouver
Local Organizing Committee of 5th SEE SDEWES 2022 Vlore
Local Organizing Committee of 16th SDEWES 2021 Dubrovnik
SpliTech 2021
9th European Combustion Meeting 2021 Naples
Local Organizing Committee of 4th SEE SDEWES 2020 Sarajevo
Local Organizing Committee of 14th SDEWES 2019 Dubrovnik
9th European Combustion Meeting 2019 Lisbon
3rd SEE SDEWES 2018 Novi Sad
Local Organizing Committee of 12th SDEWES 2017 Dubrovnik
ERCOTAC Spring Festival 2017
Local Organizing Committee of 8th European Combustion Meeting 2017 Dubrovnik
CROLAB, Zadar, 2015

● HONOURS AND AWARDS

Honours and awards

Magna Cum Laude, PhD study of the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb
Summa Cum Laude, Master study of the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb
Medal of the Faculty for success at the Master study of the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb
Summa Cum Laude, Bachelor study of the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb
Medal of the Faculty for success in Bachelor study of the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb

● JOB-RELATED SKILLS

Job-related skills

Analytical thinking, self-confidence, business flexibility, open to new challenges, acquiring new knowledge and competencies

● ORGANISATIONAL SKILLS

Organisational skills

Member of Local organizing committee 16th SDEWES Dubrovnik 2023 Conference
Member of Local organizing committee 15th SDEWES Paphos 2022 Conference
Member of Local organizing committee 5th SEE SDEWES Vlore 2022 Conference
Member of Local organizing committee 14th SDEWES Dubrovnik 2021 Conference
Member of Local organizing committee 4th SEE SDEWES Sarajevo 2020 Conference
Member of Local organizing committee 13th SDEWES Dubrovnik 2019 Conference
Member of Local organizing committee 12th SDEWES Dubrovnik 2017 Conference
Member of Local organizing committee 8th European Combustion Meeting 2017 Conference

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

Expertise guidance for seven Master’s student thesis
Good communication skills gained through the experience of working with students