Darko Perović

Copenhagen, Denmark
+45 40 63 27 57
darkovperovic@gmail.com
https://darkoperovic.com/

Research Consultant at Danish Institute of Fire and Security Technology, DBI
IMFSE Fire Safety Engineering Master graduate
Broad knowledge in civil, structural and fire safety engineering
International experience – Denmark, Australia, Sweden, UK, Belgium, Lebanon, Serbia

OBJECTIVE

I want to apply my knowledge to difficult scientific problems that matter at a global scale, take part in dynamic, team-oriented research projects, and become someone who makes a change towards better and safer world.

EXPERIENCE

May 2019 - present — **DBI – Danish Institute of Fire and Security Technology** — Copenhagen, Denmark
Advanced Services Department, Research Consultant
Numerical modelling (CFD and FEM) for various industry and research projects.
Experiments on material characterization, smoke and soot analysis.
Qualitative and quantitative risk assessment tasks.
Work with several industries – construction, naval, and offshore.

Dec 2018 – Mar 2019 — **University of Queensland**, Occupational Trainee — Brisbane, Australia
Conducted research in the field of timber structures – experimentally determining and correlating charring and regression rates of cross-laminated timber CLT. Supervised by Prof. David Lange.

EDUCATION

2016 – 2018 — **International Master of Science in Fire Safety Engineering IMFSE**
MSc in Fire Safety Engineering. Gent University, Lund University and University of Edinburgh.
Erasmus+ full scholarship

2011 – 2015 — **University of Belgrade, School of Civil Engineering (GRF)**
BSc in Civil Engineering (Structural Engineering module)
Graduated in the top 10% in class

PUBLICATIONS

Fire and materials journal publication — **"Identification and characterization of design fires and particle emissions to be used in performance-based fire design of nuclear facilities"** https://doi.org/10.1002/fam.2881
Analytical and experimental work with design fires and smoke characterization for common combustibles present at CERN. Paper presented at **Interflam 2019**.
Incident heat flux on walls and soot deposition in Single Burning Item test – experimental and modelling study. The paper is currently in the making.

Bachelor thesis — **"Project of a 5-floor masonry building with timber roof"**
Detailed analysis, calculations, and drawings for the whole project from scratch.

IMFSE blog — **Wrote and published IMFSE blogposts during two years of my Master program**
Interviews with professors, students and alumni, course reviews, thesis experience, seminars and conferences visited, visits to companies and research facilities etc.
https://internationalmasterinfiresafetyengineering.wordpress.com/author/darefire

SELECTED ACTIVITIES AND ACKNOWLEDGEMENTS

Summer schools, seminars and conferences — Selected as one of 50 young researchers to attend Burgers Program and **Combustion Institute Summer School** on Fire Safety Science at University of Maryland (rescheduled due to pandemic from 2020 to 2022) http://blog.umd.edu/fires2020/.
Advanced Fire Dynamic Simulator (FDS) with PyroSim and SmokeView series of online seminars organized by SFPE, lectured by Bryan Klein (Feb – Mar 2021). Acquiring in-depth skills in advanced fire modelling.

Gave a talk on "Experiences with smoke particle size distribution measurements" at Nordic Fire & Safety Days **NFSD** (Copenhagen, Denmark, Aug 2019)

Attended Joint European Summer School on Fuel Cell, Electrolyser, and Battery Technologies (JESS) with the focus on **hydrogen safety**. (Athens, Greece, Sep 2019).

Volunteered in organizing the **IAFSS 12th International Symposium on Fire Safety Science** (Lund, Sweden, Jun 2017).

Scholarships

One of the five students awarded with an Erasmus+ full scholarship for the IMFSE program (2016 - 2018)

Tuition fully funded by the University of Belgrade for excellence in studies (2011 - 2015)

Scholarship for outstanding students, Ministry of Education, Science and Technological Development, Serbia (2011, 2012)

Seminars

EESTEC Soft Skills Academy - trainings in time management, working in a team, leadership, communication and feedback, constructive problem solving, etc. (2013)

FIELDS OF INTEREST

- Fire dynamics
- Structural design for fire
- Dispersion and deposition of soot; smoke toxicity
- Sustainable materials and renewable sources of energy
- Numerical modelling (CFD and FEM)
- Quantitative and qualitative risk assessment
- Experimental work
- Probability and statistics

COMPUTER SKILLS

Software	Fire Dynamics Simulator (FDS), PyroSim, Pathfinder, COMSOL Multiphysics, Simulia Abaqus FEA, SAFIR, Autodesk AutoCAD, RadImpex Tower, CSI America - SAP 2000
Programming	MATLAB, Python

LANGUAGES

	Speaking	Writing	Reading	Certificates
Serbian			Native	
English	C2	C2	C2	CAE
French	C1	B2	C1	DELF B2
Danish	B1	B1	B1	
Hungarian	A1	A1	A2	

OTHER

Volunteering

Board member and industrial advisor of **IMFSE SFPE Student Chapter 2019** – arranged guest lectures and seminars for IMFSE students

Volunteered at **IAESTE LC, Belgrade** (2012 - 2015) – organizing activities for international technical students conducting internships in Belgrade.

Volunteered on the project "Loud for Health", **fighting against corruption** in the healthcare system, NGO "Serbia on the Move", Belgrade (2013).

Sport

Long distance running - marathons and ultra-marathons (most recently Ring of Steall, Scotland 2019). Scuba diving - PADI rescue diver.

Hobbies

Skiing, mountaineering, reading, playing guitar, cooking, travelling.