







Mihael Cindori


PhD in Mech. Eng.

 29 February 1992

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 mihael.cindori@gmail.com

 <https://github.com/cimbaIG>

About me

Mihael is a proud father of twin boys and postdoctoral researcher with the PhD in mech. eng. from the University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture. He is a fresh programming enthusiast with deep interest for the data science and data analytics, as well as for the physics, computational modeling of fluid flows and mathematics.

Skills

Python, Git

Matplotlib, Numpy, Scipy

C++, C# (.NET), SQL, ADO.NET

Matlab, R

MS Office

OpenFoam®, L^AT_EX, Inkscape

MacOS, Linux, Windows

Engineering, Teaching, Team work

Presenting skills

Education

- since 2022 In progress... Udemey online course
Machine Learning A-Z: Hands-On Python and R In Data Science
<https://www.udemy.com/course/machinelearning/>
- since 2022 In progress... Udemey online course
Complete 2022 Data Science and Machine Learning Bootcamp:
Learning Python, Tensorflow, Deep Learning, Regression, Classification, Neural Networks, Artificial Intelligence and more!
<https://www.udemy.com/course/python-data-science-machine-learning-bootcamp/>
- since 2022 In progress... Udemey online course
Python OOP - Object Oriented Programming for Beginners:
Learning Object Oriented Programming in Python with Step-by-Step Video Lectures, Projects, Exercises, Diagrams and More.
<https://www.udemy.com/course/python-object-oriented-programming-oop/>
- since 2022 In progress... Udemey online course
100 Days of Code: The Complete Python Pro Bootcamp for 2022,
<https://www.udemy.com/course/100-days-of-code/>
- 2016-2021 PhD in Mech. Eng., Magna cum laude FAMENA, Uni Zagreb, Ivana Lučića 5, Zagreb
Thesis title: *Computational modeling of the body force-driven homogeneous atmospheric boundary layer*
- 2016-2017 - Adult education at Algebra, Gradišćanska 24, Zagreb
Taking course *ASP.NET developer*
Content: C# and .NET Framework, Windows Forms .NET, SQL, ADO.NET
- 2013-2016 M.Sc., Magna cum laude FAMENA, Uni Zagreb, Ivana Lučića 5, Zagreb
Majoring in Mech. Eng.
- 2010-2013 B.Sc. FAMENA, Uni Zagreb, Ivana Lučića 5, Zagreb
Majoring in Mech. Eng.

Experience

- since 2022 Postdoctoral researcher FAMENA, Uni Zagreb, Ivana Lučića 5, Zagreb
Postdoc researcher at Department of Fluid Mechanics and university assistant working as a lecturer (courses: Fluid mechanics, Industrial aerodynamics)
- 2016-2021 PhD candidate in Mech. Eng. FAMENA, Uni Zagreb, Ivana Lučića 5, Zagreb
Phd candidate at Department of Fluid Mechanics and university assistant working as a lecturer (courses: Fluid mechanics, Industrial aerodynamics)
- 2015-2016 Quality Assurance Eng. Student job at Creative fields d.o.o., Avenija Dubrovnik 15, Zagreb
Testing software *cfMesh* specialized for the generation of the finite volume meshes for the computational analysis of the fluid flows.


Interests and hobbies


Mihael spends his free time by playing with his twin boys, taking a long walks in the evenings, watching podcasts, reading books and learning (programming, physics, mathematics, philosophy, politics).





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Foreign languages

English
German

Fluent speaker (Reading - C1, Speaking - C1, Understanding - C1).
Basic knowledge (Reading - A1, Speaking - A1, Understanding - A1).

Publications

- 2022 Cindori, M., Čajić, P., Džijan, I., Juretić, F., Kozmar, H., *A comparison of major steady RANS approaches to engineering ABL simulations*. Journal of wind engineering and industrial aerodynamics 221, doi:10.1016/j.jweia.2021.104867
- 2021 Cindori, M., *Računalno modeliranje homogenoga atmosferskog graničnog sloja uz primjenu dodatne masene sile*. PhD thesis (in Croatian), Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Croatia, <https://repozitorij.fsb.unizg.hr/islandora/object/fsb:7690>
- 2020 Cindori, M., Džijan, I., Juretić, F., Kozmar, H., *The Atmospheric Boundary Layer Above Generic Hills: Computational Model of a Unidirectional Body Force-Driven Flow*. Boundary-Layer Meteorology 176, 159-196, doi:10.1007/s10546-020-00521-0
- 2019 Cindori, M., Džijan, I., Juretić, F., Kozmar, H., *Computational model of the atmospheric boundary layer flow over two-dimensional cosine-shaped hills*. The 15th International Conference on Wind Engineering, Beijing, China.
- 2018 Cindori, M., Juretić, F., Kozmar, H., Džijan, I., *Steady RANS model of the homogeneous atmospheric boundary layer*. Journal of wind engineering and industrial aerodynamics 173, 289-301, doi:10.1016/j.jweia.2017.12.006
- 2018 Cindori, M., Džijan, I., Juretić, F., Kozmar, H., *A novel steady RANS model for the computational modeling of the homogeneous atmospheric boundary layer flow over hilly terrain*. In-Vento 2018, XV Conference of the Italian Association for Wind Engineering, Naples, Italy.
- 2018 Cindori, M., Juretić, F., Džijan, I., Kozmar, H., *Computational Approach to Steady RANS Simulations of the Homogeneous Neutrally-Stratified Atmospheric Boundary Layer*. The 7th International Symposium on Computational Wind Engineering 2018, Seoul, Republic of Korea.
- 2017 Cindori, M., Juretić, F., Kozmar, H., Džijan, I., *Steady RANS simulation of the homogeneous neutrally stratified atmospheric boundary layer*. Proceedings of the 7th European-African Conference on Wind Engineering (EACWE 2017), Liege, Belgium.

Conferences

- 2018 The 7th International Symposium on Computational Wind Engineering 2018, Seoul, Republic of Korea.
- 2018 In-Vento 2018, XV Conference of the Italian Association for Wind Engineering, Naples, Italy.
- 2017 7th European-African Conference on Wind Engineering, Liege, Belgium.

Projects

- 2017-2021 Wind and sea loads on energy structures (WESLO), Croatian Science Foundation project, <https://www.fsb.unizg.hr/?weslo>
- 2014 Formula student, student project at Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb


Driving licenses


Categories AM, B




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Matplotlib, Numpy, Scipy

C++, C# (.NET), SQL, ADO.NET

Matlab, R

MS Office

OpenFoam®, \LaTeX , Inkscape

MacOS, Linux, Windows

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Presenting skills

My skills

- Python (Matplotlib, Numpy, Scipy)

I use Python for the process automation, computing and postprocessing.

- C++, C# (.NET), SQL, ADO.NET

Basic knowledge of OOP in C#, .NET framework and database manipulation.

- Matlab, R

My choice during the student days.

- MS Office

Excellent knowledge of MS Word, MS Excel and MS Powerpoint.

- OpenFoam®, \LaTeX , Inkscape

Great knowledge of OpenFoam (open-source CFD software) based on the C++ libraries.

Very good knowledge of \LaTeX for the text manipulation.

Very good knowledge of Inkscape for vector graphics.

- MacOS, Linux, Windows

I prefer MacOS, but I am also skilled in Linux OS (used to use it during my student days) and Windows (used to use it like - forever).

- Engineering, Teaching, Team work

Six years of experience working on solving various engineering problems during my PhD study.

Great capacity for the transfer of knowledge due to the experience gained from the teaching of several generations of students.

- Presenting skills

Very good presentation skills gained by attending the most important international conferences in the area of wind engineering.