Jorge Aguilar-Cabello

Contact

City: Barcelona/Spain

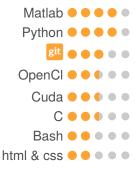
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Linkedin

Programming



Language

Spanish Native English B2

References

Carlos del Pino Peñas (Full professor)

Luis Parras Anguita
(Senior Lecturer)

Portfolio

Check my open source projects in GitLab: https://gitlab.com/ jacabello

Others

Driving license 3D printer enthusiast

QR contact



About me

I'm an industrial engineer in love with programming and multidisciplinary challenges. I've been a full time interim lecturer at University for 3 years, the last one being coordinator of the subject of fluid mechanics. At the same time, I completed my doctoral dissertation based on experimental research. As of now, I'm a specialist engineer at Linde Material Handling as a commissioning programmer for autonomous guided vehicles (AGVs), where I work in an international environment, primarily focused in German factories. Additionally, I continue developing useful programming tools for research using Python, MATLAB and OpenCL as can be seen in my GitLab profile.

Experience

Currently Commissioning Engineer

Linde Material Handling

Commissioning engineer for the execution of automation projects using Automated Guided Vehicles.

2018/21 Interim lecturer

Málaga University

Full teaching load at the School of Engineering in the area of fluid mechanics. Coordinator of:

- Hydraulic Turbo-machines (GITI, 2020/2021)
- Fluid Mechanics (GIEL, 2019/2020)

2019 **R&D Researcher**

IRPHE Marsella

Research stay of 3 months. Modification of airfoils for noise reduction in helicopters.

2017/18 R&D Researcher

Málaga University

A contract under a research project. Measurement of aerodynamic forces on flapping wing configurations using particle image velocimetry.

Education

2018/21 PhD in Fluid Mechanics

Málaga University

Title: On the steady and unsteady aerodynamics of wing models at low Reynolds numbers for micro air vehicle applications.

2014/17 Master Degree in Industrial Engineering

Málaga University.

Thesis: Thrust coefficient of a flapping plate obtention using a towing tank.

2010/14 Bachelor Degree in Industrial Engineering

Málaga University

Thesis: Resolution of practical cases of combustion processes using MAT-LAB.

Publications & Conferences

DPIVsoft-OpenCL: A Multicore CPU-GPU Accelerated Open Source Code for 2D Particle Image Velocimetry. Preprint article available at SSRN 4109022

Experimental investigation of a rotor blade tip vortex pair. CEAS Aeronaut J 13, 97–112 (2022). DOI:10.1007/s13272-021-00555-1

On the lift curve slope for rectangular flat plate wings at moderate Reynolds number. *J. Wind. Eng. Ind. Aerodyn*, 208, 104459 (2021). DOI:10.1016/j.jweia.2020.104459

On the onset of negative lift in a symmetric airfoil at very small angles of attack. *Physics of Fluids*, 32, 055107 (2020). DOI:10.1063/5.0008348

Influence of the aspect ratio and Reynolds number on the aerodynamics characteristics of a NACA0012 wing model, *Workshop on Fluid Mechanics*, Granada (2019).

Thrust and lift coefficients of rigid flapping plate measured in towing tank tests using 2D-PIV, *International Symposium on Applications of Laser and Imaging Techniques to Fluid Mechanics* (2018).