Jorge Aguilar-Cabello
PhD

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Programming
Matlab ●●●●○
Python ●●●●○
git ●●●○○
OpenCl ●●●○○
Cuda ●●●○○
C ●●●○○
Bash ●●○○○
html & css ●●○○○

Language
Spanish Native
English B2

References
Carlos del Pino Peñas ✉
(Full professor)
Luis Parras Anguita ✉
(Senior Lecturer)

Portfolio
Check my work in:
www.jacabello.com

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. In 2021 I started to work in KION as a commissioning programmer for autonomous guided vehicles (AGVs), where I worked in an international environment, primarily focused in German factories. Since April 2024, I'm the Team Lead of Iberia region. Additionally, I continue developing useful programming tools for research using Python, MATLAB and OpenCL as can be seen in my **GitLab** profile.

Experience

Currently	**Robotics Automation Engineer Team lead**	KION GROUP

Assistance in designing and executing innovative projects. Projects resources management. Technical support. Training new engineers.

2021/24	**Robotics Automation Engineer**	KION GROUP

Commisioning 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 MATLAB.

Publications

DPIVSoft-OpenCL: A Multicore CPU-GPU Accelerated Open Source Code for 2D Particle Image Velocimetry. *SoftwareX*, 20, 101256 (2022). **DOI:10.1016/j.softx.2022.101256**

Higher order dynamic mode decomposition of an experimental trailing vortex. *Physics of Fluids*, vol34, no10 (2022). **DOI:10.1063/5.0117611**

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**