



CRISTIAN RENDON

RESEARCH AND SOFTWARE ENGINEER

ABOUT ME

Passionate engineer with a predilection for research and science, always curious and attentive with an excellent level of receptiveness. Constantly strengthens and renovates his knowledge, works under pressure in any environment, adapts quickly and gives exceptional results.

EXPERIENCE

PHD STUDENT IN AUGMENTED VISION

2022 - Present | [VENISE - LISN](#)

- Working on the thesis "Enhancing Human Performance via Augmented Vision" within a multidisciplinary framework encompassing computer vision, control systems, optics, optometry, image processing, and computer graphics, among others. Supervisors: Prof. Christian Sandor and Prof. Richard Legras.

COMPUTER GRAPHICS ENGINEER

2020 - 2022 | [Manufactura Cohesiva](#)

- Full-stack engineer in charge of the research and development of computational geometry and computer vision web-based technologies with applications to digital industry and digital manufacturing.

RESEARCHER

2017 - 2022 | [CAD CAM CAE Laboratory](#) - EAFIT

- Researcher in the areas of Computational Geometry, Computational Mechanics, Applied Computational Geometry, Computational Fluid Dynamics and, Dynamic Systems.

RESEARCH INTERN

2019 - 2019 | [Walter Bassett Aerodynamics Laboratory](#) - University of Melbourne

- Research Intern under the supervision of Prof. Ivan Marusic, assisted the PhD student Jason Ruan in the project "Active Control of Large-scale Structures in High Reynolds Number Turbulent Boundary Layers" post-processing the Particle Image Velocimetry (PIV) and hot-wire anemometry measurement data. Worked on skills and basic knowledge in Turbulent Boundary Layers, Particle Image Velocimetry, Hot-wire and Hot-film anemometry and Signal Analysis.

TEACHING ASSISTANT

2018 - 2020 | Universidad EAFIT

Teaching assistant of the "Introduction to CAD/CAM Systems" course in the first semester of 2018 and the first semester of 2020. Lecturing the weekly course workshops in rigid and non-rigid transformations, projection, parametric curves and surfaces.

PUBLICATIONS

Cristian Rendon-Cardona, Jorge Correa, Diego A. Acosta, Oscar Ruiz-Salguero. [Analytic Form Fitting in Poor Triangular Meshes](#). Algorithms, 14(11): 304-331, October 2021



Cristian Rendon-Cardona, Zhoushun Ruan, Oscar Ruiz-Salguero. [Skin-friction Measurements in Turbulent Boundary Layers](#). International Journal of Engineering and Technology, 12(1): 1-15, February 2020



Cristian C. Rendon, José Hernandez, Oscar Ruiz-Salguero, Carlos A. Alvarez, Mauricio Toro. [Wing profile evolution driven by computational fluid dynamics](#). UIS Ingenierías, 18(2): 139-149, January 2019.



CONTACT

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Personal Website

LinkedIn

Paris

EDUCATION

2015 - 2020

Mechanical Engineering

Universidad EAFIT

2020 - 2022

Master of Science in Engineering

Universidad EAFIT

2022 - Present

PhD in Augmented Vision

Université Paris-Saclay

LANGUAGES

Spanish - Native

English - C1

French - A2

SKILLS

Computer Geometry

Computational

Mechanics

Research

Matlab

C++

Python

OpenCV

Javascript

Web Development

Latex