

CAIO LAGANÁ FERNANDES

Ph.D Physicist Developer

Possess Ph.D. in High Energy Nuclear Physics at the

European Organization for Nuclear Research (CERN).

Awarded the Best Doctorate Thesis Prize by the Brazilian

Physical Society in 2020. Experienced in programming

🔇 caiolagana.com.br 🔽 caiolagana@gmail.com

+55 35 99754 9882 **(7)** github.com/caiolagana

in linkedin.com/in/caiolagana

SKILLS -

Portuguese (native)
English (fluent)
Italian (fluent)
French (functional)
German (beginner)

São Paulo, Brazil

Ability to understand complex systems and work out efficient solutions to intrincate problems

languages, software development and data analysis.

PROJECTS -

SUMMARY

C++ Hypernuclei Search at CERN

https://github.com/caiolagana/LnnTTreeCreator

This C++ project was written as part of my Ph.D program. It searchs for the Λnn and Λpn hypernuclei in high-energy Pb-Pb collisions at the Large Hadron Collider. The script was ran over thousands of terabytes of data at CERN's computing infrastructure.

Visual C#, SQL **Hydroelectric Power Plant Simulator**

https://github.com/caiolagana/PowerPlantSimulator

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Python, AngularJS

Al Analysis of Legal Documents

https://github.com/e-fluxus/ia

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FORMAL EDUCATION

2013 - 2017 **Doctorate in Physics**

USP/CERN

University of São Paulo (USP) with one-year exchange program at European Organization for Nuclear Research (CERN). *Title:* Evidence for the existence of the Λnn hypernucleus with the ALICE detector

2010-2012 Master's in Physics

UNESP

State University of São Paulo (UNESP) *Title:* Femtoscopia de colisões próton-próton no detector CMS do Large Hadron Collider

USP

Scholarship from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq)

COMPLEMENTARY EDUCATION

2012 Excellence in Detectors and Instrumentation Technologies

Fermilab

Fermi National Accelerator Laboratory, Illinois (US)

2012 Short Term Course in Laboratory Techniques

Bachelor's in Physics

BNL

Brookhaven National Laboratory, Upton (US)

Short Term Course in Data Analysis Tools at CERN

European Organization for Nuclear Research, Meyrin (Switzerland)

CERN

EXPERIENCE

2010

2006-2010

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 SQL / Excel

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PUBLICATIONS -

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