



## Luis Daniel Cano

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### ABOUT ME

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Passionate about technology and its applications to improve people's lives. I have strong strengths in analysis and problem solving and a broad knowledge across several areas. I am looking for professional growth opportunities, mainly in the area of software development.

### WORK EXPERIENCE

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Nov 2021 – Today

#### Programmer, Specialized role BackOffice

KGS Research

- I am a software developer for the Canadian company KGS Research. I use HTML, JavaScript and in-house scripts in order to create the best experience for our clients who are census and political companies in the United States.
- Programmed surveys worth hundreds of thousands of dollars for an audience of hundreds of thousands of people with a multidisciplinary team.
- Participated in agile development processes using manual and automated testing.
- Had excellent feedback on my performance and above average accuracy.
- Avoided logical errors in several live projects, saving the company from wasting hundreds of thousands of dollars in the acquisition of useless data.

2020 – 2021

#### Medical Physics intern

Xaverian Oncology Center, Bogotá

- Dose to volume conformation of anatomical structures reconstructed from CT images using Elekta's Monaco and Varian's Oncentra software tools. Correction of artifacts obtained in CT images. Document management and reporting using the MOSAIQ software tool. Dosimetric planning of 3DCRT, IMRT and RCX treatments. 2D and 3D brachytherapy treatment planning. Quality control of patient specific point-to-point and ArcCHECK system. Quality control of Elekta's Synergy and Axxess linear accelerators and Varian's Precise, Toshiba CT imaging equipment and a variety of measuring and calibration instruments. Safety assessment of radiotherapy facilities. Quality control of radiology equipment.
- Contact: Alejandro Marín, head chief of Medical Physics department, CJO

2020-2

#### Teacher assistant of Radiation production, detection, and dosimetry.

Pontifical Xavierian University, Bogotá

- Supported the development of physics fundamentals workshops. Gave support to the theoretical classes of the course under the guidance of the teachers. Assisted the development of workshops applied to the field of radiation dosimetry.
- Contact: Esperanza Castellanos, PhD. Wilmar Rodríguez, PhD

2015 – 2016

#### Teacher assistant of Biomechanics

University of Antioquia, Medellín

- Designed and implemented the laboratory practices with the professor of the course. Taught the hours corresponding to the Biomechanics laboratory. Gave support to the theoretical classes of the course under the guidance of the professor and collaborated in the assessment of the Integrative Semester Projects (PIS) in the area of Biomechanics of the Human Body and Biomaterials of which the professor was Advisor.
- Contact: Juliana Uribe Pérez, Chief of Department, Researcher in Biomechanics, GIBIC group.

## ACADEMIC BACKGROUND

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2019 – 2021

### M.Sc. Physics

Science faculty, Pontifical Xavierian University

- Master's degree related to the learning and application of physical principles of radiation - matter interaction.
- Degree work entitled "Simulation in Geant4 for the calculation of shielding in radiotherapy facilities with accelerators of less than 10 MV".
- Developed Monte Carlo calculations to simulate radiation-matter interaction phenomena using C++ on a cloud computing server controlled through the Linux CLI.

2019-1

### Semester in Masters of Statistics

Science faculty, Nacional University

- Had the opportunity to study one semester of graduate studies for a master's degree in statistics, where I studied pure mathematics, statistics and economics.

2010 – 2018

### Undergraduate in Bioengineering

Engineering faculty, University of Antioquia.

- It is a career of the common core of electronic engineering, with multidisciplinary content of science and engineering (physics, chemistry, medicine).
- During my studies I had the opportunity to learn the basics of programming micro controllers and embedded systems.

## Skills

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### Languages

English – Fluent conversational English

- B2 Certificate from LCN, Medellín.
- EFSET C2 certificate
- Currently coursing C1 at LCN, Medellín.

Spanish – Native

### Computing

Programming languages

- Javascript, HTML, C++, C, Python, Octave/Matlab

Software

- React.JS, Node.Js
- Linux, VScode, gnuplot, git, latex.
- Solidworks, Autodesk Inventor.
- Monaco, Ocentra, MOSAIQ

### Communication

Soft skills

- Problem solving, team work, communication, leadership.