

# Igor Pires dos Santos

MSC. STUDENT · PGMC - UFJF

Universidade Federal de Juiz de Fora, Juiz de Fora - MG, Brazil

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<http://lattes.cnpq.br/5341241868138866>

## Professional Objectives

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Work within a state-of-the-art software development company.

## Profile

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Experienced in software development, responsible for substantial architecture improvement, deployment, and testing;

Knowledge in complex data structures, distributed and concurrent processing, image processing, software engineering, agile methods, software management and network architecture;

Experienced in numeric methods, and continuous delivery and deployment;

Innovation driven software developer: designed a graphic software to visualize the effects of pressure peaking in arterial tree models;

Avid continuous improver, optimizing processes, reducing time, and increasing models' accuracy.

## Education

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### Universidade Federal de Juiz de Fora

#### MSC. ON COMPUTATIONAL MODELING

- Scholarship granted by CAPES.
- Advisor: Prof. Dr. Rafael Alvez Bonfim de Queiroz and Prof. Dr. Ruy Freitas Reis

Juiz de Fora - MG

2019 - present

### Dublin City University

#### SCIENCE WITHOUT BORDERS - PERIOD ABROAD

- Scholarship granted by CAPES.

Dublin, Ireland

2015 - 2016

### Universidade Federal de Juiz de Fora

#### COMPUTER AIDED ENGINEERING

- Advisor: Prof. Dr. Rafael Alvez Bonfim de Queiroz

Juiz de Fora - MG

2013 - present

### Universidade Federal de Juiz de Fora

#### EXACT SCIENCES

- Advisor: Prof. Dr. Rafael Alvez Bonfim de Queiroz

Juiz de Fora - MG

2013 - 2016

### Instituto Federal de Ciência, Educação de Tecnologia

#### TECHNICIAN IN INFORMATICS

- Advisor: Jessé Di Giacomio Silva and Ricardo Esteves Kneipp

Engº Paulo de Frontin - RJ

2011 - 2013

## Professional Experience

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2019-2020 **Master Student Scholarship**, Universidade Federal de Juiz de Fora, granted by CAPES (**Full Time**)

2018-2018 **Undergraduate Research Scholarship**, Universidade Federal de Juiz de Fora, granted by CAPES (**Part Time**)

2017-2017 **Undergraduate Research Scholarship**, Universidade Federal de Juiz de Fora, granted by FAPEMIG (**Part Time**)

2016-2017 **Software Developer (Vision)**, Rinobot, VSSS Competition Team at Universidade Federal de Juiz de Fora (**Part Time**)

2015-2016 **Study Exchange Scholarship**, Dublin City University (**granted by CAPES**)

2014-2015 **Undergraduate Research Scholarship**, Universidade Federal de Juiz de Fora, granted by UFJF (**Part Time**)

2013-2014 **Undergraduate Professional Internship**, NRC - Núcleo de Recursos Computacionais, Universidade Federal de Juiz de Fora (**Part Time**)

2013-2014 **Technician Research Scholarship**, Instituto Federal de Ciência, Educação de Tecnologia, granted by FAPERJ (**Part Time**)

## Publications

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### PUBLISHED

**Santos, I**, SANTOS, IGOR PIRES DOS; REIS, RUY FREITAS; QUEIROZ, RAFAEL ALVES BONFIM DE. SIMULATION OF PULSATILE FLOW THROUGH ARTERIAL TREE MODELS. REVISTA MUNDI ENGENHARIA, TECNOLOGIA E GESTÃO. , v.5, p.1 - 14, 2020.

### IN PREP

SIMULATION OF PULSATILE FLOW THROUGH ARTERIAL TREE MODELS GENERATED BY CONSTRUCTIVE CONSTRAINED OPTIMIZATION ALGORITHMS

## Awards, Fellowships, & Grants

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2017 **2nd Place Very Small Size Soccer** , XVI Latin American Robots Competition / XV Competição Brasileira de Robótica 2017 , *Rinobot*

## Certificates

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2020 **Qt Core for Beginners with C++**, Udemy , *Bryan Cairns*

2020 **Jenkins, From Zero To Hero: Become a DevOps Jenkins Master**, Udemy , *Ricardo Andre Gonzalez Gomez*

2020 **Convolutional Neural Networks**, Coursera , *Deeplearning.ai*

2020 **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization**, Coursera , *Deeplearning.ai*

2020 **Neural Networks and Deep Learning**, Coursera , *Deeplearning.ai*

2020 **Structuring Machine Learning Projects**, Coursera , *Deeplearning.ai*

2020 **Sequence Models**, Coursera , *Deeplearning.ai*

2017 **Introduction to Game Development**, Coursera , *Michigan State University*

## Known Languages

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Advanced **Portuguese, Mother Tongue**

Advanced **English**

Basic **German**