



# Vinicius Renan de Carvalho

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## ABOUT ME

My I.T. career started with Web Development, more precisely with PHP and Java EE development, coding web services and systems. After four years of experience, I decided to full-time study Artificial Intelligence and its applications as a graduate student. In this field, I'd been studying Evolutionary Computation and Machine Learning in the past four years, applying A.I. to real-world problems. Currently, I have been studying the combination of multi-agent, evolutionary computation, and machine learning techniques in order to produce autonomous algorithms. Also, I have been studying Deep Learning and other machine learning techniques.

## QUALIFICATIONS

**2016 - 2020**

**University of São Paulo (USP)**

PhD in Computer Engineering, Artificial Intelligence

**2014 - 2015**

**Federal University of Parana (UFPR)**

Master degree in Computer Science, Search Based Software Engineering

**2009 - 2012**

**University Western Sao Paulo (Unoeste)**

Bachelor degree in Information Systems

## WORK EXPERIENCE

**Doctoral Fellow – 2018 to Present**

University of Nottingham – Nottingham, UK

Doing part of my Ph.D. in ASAP group having Ender Ozcan as advisor

**Doctoral Fellow – 2016 to Present**

University of São Paulo – São Paulo, Brazil

My research entitled "Multi-Agent Election Based Hyper-Heuristic" focus on online selecting the most suitable Multi-Objective Evolutionary Algorithms (MOEA) in order to find solutions for discrete problems (such as TSP) and continuous (such as vehicle crashworthiness). This research employs Social Choice techniques and considers MOEAs as agents.

**Masters Fellow – 07/2014 to 12/2015**

Federal University of Parana – Curitiba, Brazil

During my master degree I studied several topics of Artificial Intelligence (AI) and Software Engineering (SE). The following IA subjects were studied: Mono-objective algorithms: Genetic Algorithm (GA), Particle Swarm Optimization (PSO), Ant Colony Optimization (ACO) and Simulated Annealing (SA); Multi-objective algorithms: NSGA -II, SPEA2, MOEA/D and IBEA; Hyper-heuristics: Choice Function, Multi Armed Bandit and FRRMAB;

## AWARDS

**2012** Brazilian Computer Society Outstanding Student  
**2012** Best of Information Systems graduates

## TECHNICAL SKILLS

**Proficient:** Java, PHP, SQL, XML, REST, Git, Unit test, UML, Continuous Integration, Evolutionary Computation and Machine Learning.

**Intermediate:** C, Python.

**Familiar with:** Deep Learning, Natural Language Processing

## ADDITIONAL ACADEMIC AND RESEARCH EXPERIENCE

### Conference Subreviewer:

- AIH - Joint Workshop on Artificial Intelligence for Health (2018)
- GCAI: Global Conference on Artificial Intelligence (2018)
- BRACIS - Brazilian Conference on Intelligent Systems (2016 and 2018)
- PAAMS - International Conference on Practical Applications of Agents and MultiAgent Systems (2017)
- ENIAC - Encontro Nacional de Inteligencia Artificial e Computacional (2016)

### Teaching Assistant:

- University of Sao Paulo  
Assignment preparation and correction in the subject Introduction to Artificial Intelligence
- Federal University of Parana  
Assignment preparation and correction in the subjects: Introduction to scientific method {Software Engineering Topics 2009 – 2010

### Student monitor:

University of Western Sao Paulo (Unoeste)

Helping other students as subject monitor in the following subjects: Logic, Algorithms and Programming Techniques I and II, Computer lab II, Data structure I, Programming languages I.

## Web Developer – 02/2014 to 07/2014

RevendaMais – Curitiba, Brazil

Second level support for a car sales system (PHP + CodeIgniter). Webservices Developer (SOAP/REST/XML) for several integrations as MercadoLivre, WebMotors, Icarros.

## Web Developer – 09/2011 to 02/2014

Magote – São Paulo, Brazil

I worked in coding and maintenance in PHP systems using the framework CodeIgniter, also in Java systems using JSF framework and Hibernate. I also worked in the configuration and maintenance of Linux servers (Ubuntu Server with Apache and Glassfish) and second level support.

## Junior Web Developer – 04/2011 to 09/2011

WebLibre – São Paulo, Brazil

I was involved in the development of the payment gateway Librepag (coded in PHP)