

# CARLOS EDUARDO MARCIANO

My website: <https://cemarciano.github.io>  
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## EDUCATION

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**Federal University of Rio de Janeiro, RJ, Brazil** ..... *Aug 2014 – May 2019*  
B.S. in Information and Computer Engineering ..... Final GPA: 8.8/10  
Cum laude

## PUBLICATION

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**Minimum Concurrency for Assembling Computer Music**  
*MARCIANO, C. E., LUCENA, A., FRANÇA, F. M. G., SIMONETTI, L. G.*  
Accepted for the 9th International Network Optimization Conference, Avignon, France, June 2019.  
Award: *Top 10 Best undergraduate research paper in CTIC 2019 (Brazilian nationwide competition)*

## RESEARCH

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**Federal University of Rio de Janeiro** ..... Mar 2018 – Present  
*Felipe M. G. França (UFRJ), Luidi G. Simonetti (UFRJ), Abilio Lucena (UFRJ)*  
Topics: algorithms, graph theory, combinatorial optimization, distributed systems

**Federal University of Rio de Janeiro** ..... Mar 2018 – Nov 2018  
*José Manoel de Seixas (UFRJ), Werner S. Freund (LPNHE, Sorbonne)*  
*Funded by CNPq Fellowship*  
Topics: big data, machine learning, particle physics

**Federal University of Rio de Janeiro** ..... Dec 2017 – Mar 2018  
*Vinícius G. Pereira de Sá (UFRJ)*  
Topics: algorithms, graph theory

## TEACHING ASSISTANTSHIPS

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**Federal University of Rio de Janeiro**  
*COS242 – Graph Theory* ..... *Aug 2018 – Dec 2018*  
*EEL470 – Algorithms and Data Structures* ..... *Mar 2016 – Dec 2017*

## ACHIEVEMENTS

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- ▷ Ranked 1st in the entrance exam for the Information and Computer Engineering undergraduate program at the Federal University of Rio de Janeiro with a total of 4035.60 points (ENEM 2014).
- ▷ Writer of one of the 250 essays, out of a total of 6 million, that achieved 1000 points in ENEM 2014 (top 0.004%).
- ▷ Graduated with the highest GPA among my Computer Engineering peers in Spring 2019.

## RELEVANT COURSES

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### Core Courses

Algorithms and Data Structures  
Graph Theory  
Database Design  
Computational Intelligence  
Theory of Computation

### Other Courses

Graph Optimization  
Probability and Statistics  
Markov Chain Monte Carlo Methods  
Calculus I–IV & Linear Algebra  
Machine Learning (Coursera)

## OTHER TEACHING POSITIONS

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**C Programming Language Course** ..... March 2017  
*Federal University of Rio de Janeiro* ..... *Taught outside of class hours*

This course was comprised of 4 classes, each with a duration of 2 hours, where I presented the basics of the C programming language to around 20 students. The bibliography consisted of Brian Kernighan and Dennis Ritchie's homonymous book, which inspired a number of exercises developed throughout the course. The last class involved notions of computer architecture and code snippets showing how C is modernly used to develop the Linux kernel.

## LANGUAGES & SKILLS

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### Natural

#### Fluent

- ↳ Portuguese
- ↳ English

#### Advanced

- ↳ French

#### Basic

- ↳ Spanish

### Programming

#### Fluent

- ↳ C and C++

#### Advanced

- ↳ Python, Scikit-Learn
- ↳ HTML, CSS, JavaScript

#### Intermediate

- ↳ MongoDB, Keras
- ↳ Matlab/Octave, Bash

#### Basic

- ↳ Java, Fortran, x86 Assembly

## TEST SCORES

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*TOEFL (Aug 2018)* ..... *115/120*

## GRANTS, HONORS AND AWARDS

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*CNPq Undergraduate Research Scholarship* ..... *Mar 2018 – Nov 2018*  
*Teaching Assistant Scholarship* ..... *Mar 2016 – Dec 2017*