

# Gustavo Estrela de Matos

235 Agostinho dos Santos Street, São Paulo - São Paulo

☎ (+55) 011 975-934-129 | ✉ estrela.gustavo.matos@gmail.com | 🌐 gustavoem

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## EDUCATION

### Institute of Mathematics and Statistics (University of São Paulo)

MASTER OF SCIENCE IN COMPUTER SCIENCE

São Paulo, Brazil

January 2018 - Present

### Institute of Mathematics and Statistics (University of São Paulo)

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

São Paulo, Brazil

February 2013 - December 2017

GPA: 9/10.

### Texas A&M University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

College Station, Texas

September 2015 - May 2016

Non-degree seeking exchange student participant of the Government of Brazil program Science Without Borders.

GPA: 3.75/4

## EXPERIENCES

### Butantan Institute with São Paulo Research Foundation Grant

GRADUATE RESEARCHER

São Paulo, Brazil

January 2018 - Present

Identification of cell signaling pathways based on biochemical reaction kinetics repositories.

### Butantan Institute with São Paulo Research Foundation Grant

UNDERGRADUATE RESEARCHER

São Paulo, Brazil

May 2017 - December 2017

Studies and implementation of forest based algorithms to solve the U-Curve problem.

### Institute of Mathematics and Statistics (University of São Paulo)

TEACHING ASSISTANT

São Paulo, Brazil

August 2016 - December 2016

Assisted professor on creating and grading assignments and answering students questions.

### Texas A&M University

UNDERGRADUATE RESEARCHER

College Station, Texas

June 2016 - July 2016

Studies of stochastic optimization algorithms and applications of these different approaches on chains of the U-Curve Problem.

### Butantan Institute with São Paulo Research Foundation Grant

UNDERGRADUATE RESEARCHER

São Paulo, Brazil

January 2015 - July 2015

Developed alternative algorithms to solve the U-Curve problem, an optimization problem defined over a boolean lattice in which the objective function describes u-shaped curves for every chain of the lattice.

### Institute of Mathematics and Statistics (University of São Paulo)

TEACHING ASSISTANT

São Paulo, Brazil

August 2014 - December 2014

Professor assistant of Introduction to Computer Science class. Assisted professor on grading students homeworks and answering students questions.

## PUBLICATIONS

### featsel: A framework for benchmarking of feature selection algorithms and cost functions.

SoftwareX, v. 6, p. 193-197, 2017.

REIS, MARCELO S.; ESTRELA, GUSTAVO; FERREIRA, CARLOS EDUARDO; BARRERA, JUNIOR.

## **Optimal Boolean lattice-based algorithms for the U-curve optimization problem.**

REIS, MARCELO S.; ESTRELA, GUSTAVO; FERREIRA, CARLOS EDUARDO; BARRERA, JUNIOR.

(Accepted for publication.)

Information Sciences,  
2018.

## **SKILLS**

**Programming** C/C++, JAVA, Python, Perl, Octave (Matlab), LaTeX, MySQL, Linux, Arduino, Shell, Git, Vim, Android.

**Languages** English, Portuguese

## **AWARDS**

### **Honorable Mention**

FOR OUTSTANDING ACADEMIC PERFORMANCE ON BACHELOR'S DEGREE IN COMPUTER SCIENCE.

Awarded by Institute of Mathematics and Statistics of University of São Paulo.

São Paulo, Brazil.

2018

## **EXTRA-CURRICULAR ACTIVITIES**

### **Texas A&M Table Tennis Club**

MEMBER

College Station, Texas

January 2016 - May 2016

### **University of São Paulo Open Source Hardware Student Group**

CO-FOUNDER

The group was founded by computer science students in an attempt to foment the studies of open source hardware such as Arduino between students and local community.

São Paulo, Brazil

November 2013 - August 2015

### **Computer Science Class' Representative**

MEMBER

São Paulo, Brazil

February 2013 - August 2015

### **Institute of Mathematics and Statistics Baseball and Softball Club**

MEMBER

São Paulo, Brazil

February 2013 - Present