

# Stephannie Jimenez Gacha

+57 311 271-5998 • [steff456@hotmail.com](mailto:steff456@hotmail.com)

<https://github.com/steff456>

Undergraduate Biomedical engineer and Systems and Computing engineer completing the final year at the Universidad de los Andes. I'm a talented person that is interested in computer vision, robotics, and medical and biological applications of programming. I consider myself as a proactive and enthusiastic student, always looking forward for knowledge. I think that I'm very responsible and an excellent leader.

## Experience

- Teaching Assistant** **Universidad de los Andes**  
*Biomechanics* *August 2017–Present*  
I was present in all the class sessions, as well as having several office hours throughout the week for solving questions to the students.
- Teaching Assistant** **Universidad de los Andes**  
*Object-oriented programming and algorithms II* *Jan 2016–August 2017*  
I was present in one class session per week solving questions to students. As well, I was responsible for the grades for the lab activities and exams.

## Education

### Academic Qualifications

- Systems and Computing Engineering** **Bogotá**  
*Universidad de los Andes,* *2014–Present*
- Biomedical Engineering** **Bogotá**  
*Universidad de los Andes,* *2014–Present*
- The English School (Fundación Colegio de Inglaterra)** **Bogotá**  
*International Baccalaureate (IB diploma),* *2000–2014*

### Notable Projects

- Final biomedical engineering project:** *'Development of a constant monitoring for patients with heart failure using photoplethysmography'*  
I am part of a team developing a monitoring service for patients with heart failure using existing pulse oximeters on the market. This ambitious project requires multi-disciplinary team including medical doctors and biomedical engineers. Given the role of investigator I am responsible of the management of signals measured from patients and the development of the algorithm. Also, I developed the complete architecture for recording and visualization of photoplethysmography in real time with a web application.
- Recognition of hand-written mathematical expressions:** *'An Artificial Neural Network Approach'*  
This challenging project took place as the final project of an elective course in the last semester. The project results were promising, because the algorithm is capable of recognizing mathematical expressions and isolated symbols. This project has been suggested for publication by my professor.

### Publications

- 2018, Bogotá. S. Jimenez, S. Galindo. Segmentation of Mandibles in Computer Tomography Volumes of*

## Technical and Personal skills

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- **Programming Languages:** Proficient in: Python, Matlab, Java, Arduino, TeX  
Also intermediate ability with: SQL, JavaScript.
- **Industry Software Skills:** Matlab (Advanced), Inventor (Intermediate), Most MS Office products (Advanced).
- **Technologies:** Git, SQL, MongoDB(noSQL), Riak KV, Angular, Bootstrap, Pytorch
- **Languages:** Spanish (Native speaker), English (Advanced) B2, French (Intermediate) B2

## Interests and extra-curricular activity

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- **Student Council:** During 2017, I was in the student council for biomedical engineering undergraduate program. My roles included generating extra curricular activities for the students, such as tournaments. Also I was in the committee for ABET accreditation process and organization. At the end of the year, the biomedical engineering department created a Facebook page with all the information of the activities and news that continue operating.
- I am also a ballet dancer with 6 years of training.