

# JUAN BARBOSA

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## EDUCATION

UNIVERSIDAD DE LOS ANDES, COLOMBIA 2013–PRESENT

UNDERGRADUATE STUDENT IN PHYSICS 2013–PRESENT

UNDERGRADUATE STUDENT IN CHEMISTRY 2014–PRESENT  
GPA 3.99/5.00

## WORK EXPERIENCE

JUNIOR TEACHING ASSISTANT AT UNIANDES 2015–2017

Inspired students to develop skills at Newtonian mechanics, astrobiology and computational sciences. Guided them to solve in class problems and wrote performance reports on their applied tests.

COMPUTATIONAL METHODS AUG 2016–DEC 2017

PHYSICS I AUG 2015–MAY 2016

ASTROBIOLOGY JAN 2015–MAY 2015

DEVELOPER AT TAUSAND ELECTRÓNICA 2017

Software developer of the Abacus user interface to be used with Tausand's coincidence detector.

## PUBLIC PROJECTS

SPECPY (🐍/SpecPy) 2016

Real time Spectrum Analyzer, based on Python.

BLINK DETECTION (🐍/Blink-Detection) 2016

Python application to detect blinking using any web camera.

RUTHERFORD CHEMISTRY (🐍/Rutherford-chemistry) 2015

Gas chromatography–mass spectrometry software.

## COMMUNICATION SKILLS

SPANISH | Native speaker  
ENGLISH | Fluent (speaking, reading, writing)

## PROGRAMMING SKILLS

ADVANCED LEVEL | Python, C, **git**,  $\text{\LaTeX}$ , Bash  
INTERMEDIATE | JSON, HTML, Java  
BASIC | Mathematica, Visual Basic