

# Juan Camilo Arévalo Arboleda

Ph.D. Student in Computer Science and Engineering

@ arevaloarboled@gmail.com

(+81) 080-2541-8203

Aizuwakamatsu, Japan

ArevaloCamilo

arevaloarboled

## Summary

Computer scientist with expertise in animation, interactive systems, web-oriented computation, audio processing, and VR. Experience in international and interdisciplinary research groups. Stand out for excellent performance in programming code and versatility between programming languages and tools.

**Interests:** Music information retrieval, Audio processing, VR/Game development, machine learning and, research.

## Experience

### Teacher Assistant

Currently —04/2019

University of Aizu

Aizuwakamatsu, Japan

- Assist in the practical and theoretical lectures of computer science undergraduate courses. Such as virtual reality, sound and audio processing, C++ programming, computer graphics, introduction to data management and introduction to multimedia.
- Tasks: Prepare material for lectures, grade undergraduate courses exercises, grade quizzes and, solve the doubts of the students regarding the courses.

### Research Assistant

12/2018 —06/2018

Pontifical Javeriana University Cali

Cali, Colombia

- Built an online game "Tramas: parques intercultural," as a didactic tool to promote the intercultural dialogue.
- Perform user validations.
- Server deploy and administration.

### Internship

11/2018

University Complutense of Madrid

Madrid, Spain

- Researched and implemented a tracking map for artworks of artistic heritage value during the Spanish civil war and the postwar.
- Server administration.

### Research Assistant

12/2014 —08/2014

Pontifical Javeriana University Cali

Cali, Colombia

- Researched, designed, and implemented an algorithm capable of finding salsa song choruses for the construction of a data set.

## Education

### Ph.D. in Computer Science and Engineering

University of Aizu

(expected graduation) 03/2024 —04/2021

Aizuwakamatsu, Japan

Research topic: Sound spatialization

### M.Sc. in Computer Science and Engineering

University of Aizu

03/2021 —04/2019

Aizuwakamatsu, Japan

Research topic: Sound spatialization, GPA: 4.0/4.0

### B.Sc. in Computer Science

Pontifical Javeriana University Cali

11/2018 —07/2012

Cali, Colombia

Cum Laude, GPA: 3.81/5.0. Program with ABET international accreditation.

## Achievements

### 3rd prize in AES student competition: MATLAB plugin 2021

International competition to design an audio production VST plugin using MATLAB.

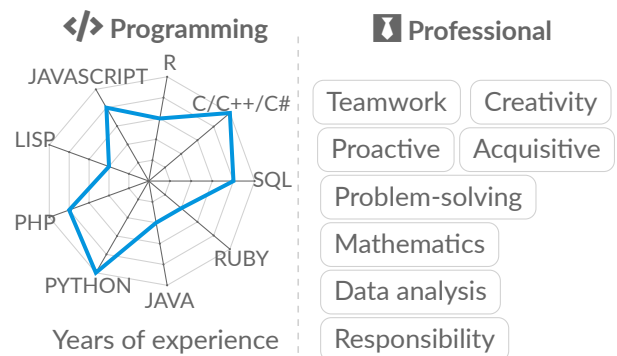
### 3rd prize in Expo poster REDIS South West Node 2018

Research graduation contest held by 21 undergraduate Computer Science programs institutions in Colombia

### Ranked 8th in the ACM International Collegiate Programming Contest (ICPC) South America / North Regional 2016

Member of "CodeBreakers" team from 2013 to 2016.

## Skills



### Frameworks & tools

Pure Data	●●●●	MySQL	●●●●
Matlab	●●●●	NodeJS	●●●●
Unity	●●●●	OpenMP/MPI	●●●●
Arduino	●●●●	OpenCV	●●●●
AngularJS	●●●●	Docker	●●●●
Bootstrap	●●●●	MongoDB	●●●●

## Languages

Spanish	(Native)
English	(Fluent)
Japanese	(Conversational)

## Publications

Search author as **Camilo Arevalo** in:

Google scholar

Research gate

5 Peer-reviewed papers.

1 Peer-reviewed poster.

June 27, 2021