

Juan C. Torres

Dartmouth College, 3262 Hinman, Hanover, NH, 03755, USA

✉ juan.c.torres.17@dartmouth.edu • ☎ +1 (617) 230-9489 • 🌐 juantorres.me • 📷 juantorres

EDUCATION

Dartmouth College, Hanover, NH, USA

Bachelor of Arts (B.A.) in Computer Science

Sep 2013 – Jun 2017

- Relevant major courses: Introduction to Programming and Computation, Problem Solving via Object-Oriented Programming, Discrete Mathematics in Computer Science, Software Design and Implementation, Computer Architecture, Internet of Things and its risks to society, Compilers (received academic honor citation), Machine Learning
- Other relevant courses taken: Introduction to Calculus, Calculus of Functions of One and Several Variables, Linear Algebra with Applications.
- Spring 2016 Courses: Algorithms, Numerical & Computational Tools for Applied Science.

University of Copenhagen, Copenhagen, Denmark

Exchange program in Sociology

Aug 2015 – Jan 2016

Jorge Robledo Institute, Medellin, Colombia

Primary and Secondary Education

Jan 1999 – Nov 2011

- Class rank: 1/65
- Finalist in state-wide *Chemistry and Physics and Mathematics* olympiads.

RELEVANT WORK EXPERIENCE

Dartmouth College Computer Science Department, Hanover, NH, USA

Section leader for Introduction to Programming and Computation (Python)

Mar 2015 – Jun 2015

Section leader for Problem Solving via Object-Oriented Programming (Java)

Jan 2016 – Mar 2016

- In weekly meetings, help students conceptually understand the course material, and cement their knowledge by leading them through a series of programming exercises.
- Grade students' coursework and exams.
- Help students improve, debug, and fix their code for course assignments in scheduled weekly help sessions.

OTHER WORK EXPERIENCE

Dartmouth College Spanish Department, Hanover, NH, USA

Apprentice Teacher

Sep 2013 – Mar 2015

- Met several times a week with students to challenge them orally in Spanish to improve their language proficiency.
- Graded student performance in said meetings and assisted Professor in their evaluation of individual students.

PROJECTS

Machine Learning Kaggle Competition. Python (scikit-learn, natural language toolkit), Matlab

- Participated in Home Depot's Product Search relevance competition as a final project for 'Machine Learning' course.
- Predicted search relevance values for pairs of search terms and returned products by using methods such as decision tree, neural network, and adaboost regressors.
- Cleaned and helped extract numerical features from text input using natural language processing techniques.

Tiny Search Engine. C

- Created during the course of a term of 'Software design and implementation' a working model of a basic search engine that would crawl, index, and let the user query its database for particular data.

Design for Y-86 Processor. Logisim (tool for designing and testing digital logic circuits)

- Created during one term of 'Computer Architecture' a working simulation of a processor that could execute programs written in Y-86 (subset of X-86 assembly).

Compiler for C subset. C, flex, bison

- Implement during the course of a term a basic compiler for a subset of the C language for 'Compilers' class.

CAMPUS ACTIVITIES

Dartmouth Hacker Club, Dartmouth College

Member

Jun 2015 – Aug 2015

- Helped organize the college's second annual hackaton.

World Outlook Undergraduate Journal of International Affairs, Dartmouth College

Executive Editor, Web manager

Mar 2014 – Present

- Help design and maintain organization's web presence, arrange journal's cover and create other graphic materials.
- Help in the selection of papers to be published. Lead editing groups in editing and proofreading selected papers.

SKILLS

Programming Experience: Advanced: Python (scikit-learn, pandas, numpy), Java, C. Intermediate: Shell script, Matlab, intermediate Y86 (reduced-instruction subset of X86 assembly). Beginner: C++, Javascript

Other skills and tools: \LaTeX , Flex & Bison (tools for creating a parser for various formats), Logisim (tool for designing and testing digital logic circuits), Adobe Illustrator, basic HTML & CSS.

LANGUAGES

Native Spanish, intermediate French (speaking, reading, writing), beginner Latin (reading, writing).