Diego Díaz

Curriculum Vitae

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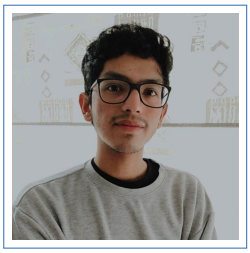

About me

I am an electronic engineer and mathematics student interested in signal processing, machine learning, data science and its interactions with topology, differential geometry and optimization. Strong background in probability, statistics and Fourier analysis. I also have a passion for music, song writing and guitar playing. **Soft skills**: teamwork, strong communitacion, curiosity and learning desire, problem solving.

Education

Pontificia Universidad Javeriana, Bogotá

2017–2022 **B.S. in Electronic Engineering (ABET)**
Thesis: *Piecewise linear signals for analog order filters* (5.0/5.0).
Advisors: Alfredo Restrepo Palacios and Jesús Alonso Ochoa Arango.
GPA: 4.1/5.0.
Department of Electronic Engineering.

2018– **B.S. in Mathematics**
GPA (current): 4.2/5.0.
Department of Mathematics.

Schools attended

Jun 29 – Jul 1, 2022 **International Workshop in Applied Statistics and Data Science**, *UTB*, Cartagena de Indias.

Jun 14– Jun 25, 2022 **Encuentro Colombiano de Combinatoria (ECCO)**, *Universidad de los Andes and Universidad Sergio Arboleda*, Bogotá.
CIMPA Research School: Geometric methods in combinatorics.

Projects and experience

Engineering projects

Feb–Jun, 2021 **Breathe & Ride**, IoT system for monitoring air quality to which cyclists are exposed.
Developed with: Python, Thingsboard, SQL, Raspberry Pi and air quality sensors.

Jul–Nov, 2020 **Hand keypoints detection**, implementation of computer vision algorithms for detection of phalanges, knuckles and other keypoints.
Developed with: Python in Google Colab.

Jul–Nov, 2020 **Real-time detection and classificaton of face masks**, face detection by means of computer vision algorithms and mask position classification via CNN's.
Developed with: Python in PyCharm IDE.

Experience

Feb–Jun, 2021 **Academic mentor in mathematics**, assistant for electronic engineering students in their first five semesters, calculus, linear algebra and probability.

Skills

- **Programming:** Python, C, Matlab, LaTeX, SQL. **Microsoft**: Word, Powerpoint, Excel, Project.
- **Languages:** Spanish (native), English (fluent), German (basic).