Diego Díaz

Curriculum Vitae

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in diego-díaz

Personal Information

I am an electronic engineer and mathematics student interested in applied mathematics, specifically in statistical learning theory, information theory, signal processing and computational algebraic topology. I am passionate about music, writing songs and playing guitar.

Education

Pontificia Universidad Javeriana, Bogotá

2018–2023 **B.S. in Mathematics**
Degree thesis: *An uncertainty principle for functions with symmetries over finite fields.*
Advisor: Jesús Alonso Ochoa Arango.
Department of Mathematics.

2017–2022 **B.S. in Electronic Engineering**
Degree thesis: *Piecewise linear signals for analog order filters.*
Advisors: Alfredo Restrepo Palacios and Jesús Alonso Ochoa Arango.
Department of Electronic Engineering.

Schools Attended

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

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

Honors and Talks

Apr, 2023 **Degree thesis presentation**, *Jornada Interuniversitaria de Matemáticas*, Universidad Nacional de Colombia

Sep, 2022 **Honorable mention in degree thesis**, *Electronic Engineering.*

Projects and Experience

Experience

Nov–May, 2023 **Internship**, *Management Solutions.*

Jul–Nov, 2022 **Instructor in mathematics**, assistant for all majors, calculus, linear algebra, probability and discrete mathematics.

Engineering Projects

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.

Skills

○ **Programming:** Python, C, Matlab, LaTeX, SQL.
○ **Languages:** Spanish (native), English (fluent), German (basic).