DIANA LAURA DÍAZ GARCÍA

CANDIDATE FOR A BACHELOR'S DEGREE IN EARTH SCIENCE
WITH SPECIALIZATION IN ATMOSPHERIC SCIENCE

Personal Profile

I am a last year bachelor student of Atmospheric Science in UNAM. I have interest in numerical modeling and I would like to apply it to risk assessment. I like programming, being in constant learning and overcome challenges.

Contact Details

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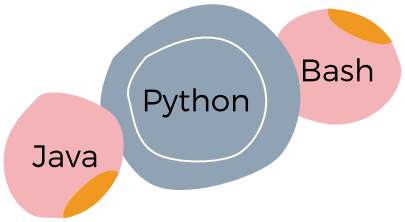
Languages

- English (Professional proficiency)
- French (Basic skills)
- Spanish (Native)

Programming Languages



Areas of Interest

- Atmospheric Science
- Numerical Modelling
- Programming
- Meteorology
- Python
- WRF

Honors & Achievements

- Mitacs Globalink Research Award
- Academic Excellence

Academic Background

National Autonomous University of Mexico (UNAM)

Bachelor in Earth Science with specialization in Atmospheric Science (2016-Present)

- Throughout my undergraduate studies I have participated in various projects. I have worked in the supercomputer of my university to run experiments for extreme precipitation events using the WRF model, I'm currently learning the observational nudging technique.

National Center for Atmospheric Science (NCAS)

Introduction to Atmospheric Science Course
(2020/01/20 - 2020/01/24)

- During a week I had lectures given by atmospheric specialists about several areas of the atmospheric science field. This was an intensive and really complete course in which we saw lectures from General Circulation of the Atmosphere to Dynamics of the Stratosphere and Climate Modeling.

Juarez Autonomous University of Tabasco

National Congress of the Mexican Physical Society
(2019/10/6 - 2019/10/11)

- I presented my work entitled *Proposal for a Meteorological Station built with Arduino Nano, assembled to a Dron* at the poster session of the Earth Science department.

National Autonomous University of Mexico (UNAM)

Geophysical Fluid Dynamics Course
(2018/06/04 - 2018/06/22)

- I took this course in the Academic Unit of Sisal in Yucatán, UNAM, it was an intensive course in which I learned about fluid dynamics, we studied mainly the ocean and the atmosphere. We used Matlab to program equations and study different processes such as Ekman's transport and also the salinity and temperature gradients in the Ría Lagartos lagoon in Celestún.

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Research Internships

Ensenada Center for Scientific Research and Higher Education (CICESE), Baja California México

7 weeks research internship, 2018/07/01 - 2018/08/16

- I studied the currents in Todos Santos Bay in Ensenada City of Mexico, to do this I analyzed data from an acoustic doppler current profiler (ADCP) and also used Python and Matlab to generate figures to visualize the data more easily.

York University, Toronto Canada

3 months research internship, 2019/06/24 - 2019/09/13

- I studied the Sea Fog over the region called Grand Banks in eastern Canada using observations from a station in Sable Island and outputs from the NAM Model. I used Python to process all the data and generate the visualizations of the outputs of the model and the observations.

Work Experience

Intern: Impact Assessment & Planning

ERM: Environmental Resources Management
Feb 2020 - Present

- I work together with the IAP team in creating environmental impact assessments, helping with the formatting of documents, doing translations and presentations. I also do research on different topics requested by the team.

Teacher's Assistant: Mechatronics for Earth Science

National Autonomous University of Mexico, UNAM
Aug 2019 - Present (2 semesters)

- I help the professor with the planning of the class, I guide the students during their lab practices and I assist them in the construction of their robots and products of their final projects.

Trainning

Faculty of Science, UNAM

LaTeX Trainning Course
(2017/01/09 - 2017/01/27)

Faculty of Engineering, UNAM

Introduction and basic concepts of remote sensing
(2017/07 - 2017/08)
Basic Python (2017/08)
Intermediate Python (2017/09)