

# Argel Ramírez Reyes

ATMOSPHERIC SCIENCE PH. D. STUDENT @ UC DAVIS & BERKELEY LAB

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## Education

### University of California at Davis

PH.D. IN ATMOSPHERIC SCIENCE

Davis, CA, USA

Sep. 2017 - Current

- Supervisor: **Dr. Da Yang** @ Lawrence Berkeley National Laboratory
- Research area: Tropical Atmosphere Dynamics and Climate, Numerical Modeling of the Atmosphere
- Recipient of the CONACYT - UCMexus Fellowship for Graduate Studies

### Université de Lille 1 - Sciences et Technologies

M.S IN HIGH PERFORMANCE COMPUTING, SIMULATION, SPECIALIZED IN SCIENTIFIC COMPUTING

Villeneuve d'Ascq, France

Sep. 2016 - Sep. 2017

- Supervisor: **Dr. Pascal Tremblin**
- Masters Project: Development of a 2D Hydrodynamics-Radiative Transfer Model with Adaptive Mesh Refinement using the P4est Library

### UNAM (Universidad Nacional Autónoma de México)

B.S. IN PHYSICS

México City, México

Mar. 2011 - Aug. 2016

- Graduation Project: Minimum Action Principle and Noether's Theorem using Central Fractional Derivatives

## Skills

**Operating Systems** Windows, Linux, Mac OS X

**Programming** Julia, Matlab, C++, Fortran 95, C, Matlab, Python

**Languages** Spanish, English, French

## Teaching experience

### UC Davis (Professor: Dr. Terry Nathan)

READER AND GRADER - ADVANCED ATMOSPHERIC DYNAMICS

Davis CA, USA

Jan 2020 - March 2020

### UC Davis (Professor: Dr. Adele Igel)

TEACHING ASSISTANT - ATMOSPHERIC THERMODYNAMICS

Davis CA, USA

Sep 2019 - Dec 2019

### UC Davis (Professor: Dr. Ian Faloona)

TEACHING ASSISTANT - INTRODUCTION TO THE ATMOSPHERIC SCIENCES

Davis CA, USA

Sep 2019 - Dec 2019

### UC Davis (Professor: Dr. Erwan Monier)

TEACHING ASSISTANT - SEVERE AND HAZARDOUS WEATHER

Davis CA, USA

Jan 2019 - March 2019

### School of Sciences, UNAM México (Dr. Jorge Zavala Hidalgo)

TEACHING ASSISTANT - INTRODUCTION TO NUMERICAL MODELLING OF THE ATMOSPHERE

México City, México

Aug. 2015 - Jan 2016

- Assisting students in laboratory sessions.
- Design and grading of quizzes, tests and homeworks.
- Attention of students outside of class

## Experience

### Maison de la Simulation

MASTER STUDENT INTERN

Saclay, France

Mar. 2017 - Sep. 2017

- Development of a Hydrodynamics-Radiation simulation code with Adaptive Mesh Refinement capabilities

### "Ocean-atmosphere interaction group", Center for Atmospheric Sciences at UNAM

RESEARCH ASSISTANT

México City, Mexico

Jan. 2016 - Sep. 2017

- Analysis of WRF model outputs for a Study of Pollution Transport between México City and Neighboring Valleys

### Cold Atoms Lab, Autonomous University of San Luis Potosí

SUMMER STUDENT INTERN

San Luis Potosi, México

Summer 2014

- Assembly of Magnetic Field Sensors for a Cold Atoms Trap

## Academic meetings

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### AGU Fall Meeting

“ORAL PRESENTATION: SPONTANEOUS CYCLOGENESIS WITHOUT RADIATIVE AND SURFACE-FLUX FEEDBACKS ”

*San Francisco, CA*

*Dec 2019*

### CalGFD

“LIGHTNING TALK ”

*Caltech, Pasadena, CA*

*Sep 2019*

### 2nd ICTP Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Convective Organization and Climate Sensitivity

“ATTENDANT AND POSTER PRESENTER ”

*ICTP, Trieste, Italy*

*Jul 2019*

### Atmospheric and Oceanic Fluid Dynamics meeting

“POSTER PRESENTATION: SPONTANEOUS CYCLOGENESIS WITHOUT RADIATIVE AND SURFACE-FLUX FEEDBACKS ”

*Portland, ME*

*May 2019*

### Phase transitions in Astrophysics, from ISM to Planets

“ATTENDANT TO PROGRAM”

*Nordita, Stockholm, Sweden*

*May 2017*

### Yearly meeting of the Mexican Physics Society

“POSTER PRESENTER FOR QUANTUM INTERFERENCE OF A PHOTON IN A BEAMSPLITTER GRID”

*Cocoyoc, México*

*May 2014*

### 5th colloquium of Technology Students

PRESENTER FOR “IMAGE TRANSMISSION TROUGH OPTIC FIBERS”

- Received Honors Award for Outstanding Presentation.

*Juriquilla, Querétaro, México*

*2010*