

# Josué Martínez Moreno

---

Science School, UNAM, Mexico

josue\_pingu@ciencias.unam.mx  
<http://faraday.fciencias.unam.mx/josue/>  
(+52 1) 55 43641538

## Education

- **Sciences School at National Autonomous University of Mexico, 2012 –**  
B.Sc. Earth Sciences, Aquatic Sciences option.  
B.Sc. Thesis: “Pollution scenarios in the Gulf of Mexico by the river plume of the Coatzacoalcos river”. To understand the passive particle dispersion of the river plume of the Coatzacoalcos River it was implemented the numerical model MIT General Circulation Model.  
Advisor: PhD. Angel Ruiz-Angulo

## Teaching Experience

- Teacher Assistance of Geophysical Fluid Dynamics (Undergraduate) – 2016.
- $\text{\LaTeX}$  and Python – 2016.

## Research Experience

### Internships

- **REU – Water Resources Management Research Group, University of California Davis, California, USA, July –August 2015**  
Proyect: California Hydrologic Classification  
Advisor: PhD. Samuel Sandoval Solis
- **Research Internship (Youth toward Research Program), May – July 2011**  
Advisor: M.Sc. Zoila Castillo Rodriguez.  
Activities: Identified and analyzed gastropods and fish by physiological characteristics. Measurement of relation of fish weight and the environmental condition and availability of nutrients let them grow.

### Workshops

- **“Introduction to the dynamics of semiencloded bodies of water” – 2016**  
Taught by Ph.D. Arnolando Valle-Levinson, Ph.D. Alejandro Souza, Ph.D. Carlos Augusto Frana Schettini, Ph.D. Ismael Mario Tapia, Ph.D. Cecilia Enriquez and Ph.D. Meghan Williams at the Academic Unit, Puerto Morelos of the Institute of Marine Sciences and Limnology, UNAM.
- **“Submerged cave ecology with emphasis on remipede crustaceans and Mexican cenotes” – 2016**  
Taught by Ph.D. Jill Yager, at the Institute of Marine Sciences and Limnology, UNAM

## Research cruises

- **B/O Justo Sierra**, August 1st, 2014 – August 3rd, 2014  
Chief Scientist: Ph.D. Elva Escobar Briones from Instituto de Ciencias del Mar y Limnología, UNAM  
Activities: Assistant of seismic profiling, CTD and CTD profiling, and sediment samples collect. Responsible of water sampling.

## Research Assistance

- **Research Volunteer, Institute of Marine Sciences and Limnology**, August – April 2013  
Advisor: Ph.D. Elva Escobar Briones.  
Activities: Analyze sediment composition and meiobenthos.
- **Research Assistance, Institute of Environmental Engineering**, June – August 2011  
Advisor: M.Sc. Leticia García Montes de Oca.  
Project: Physicochemical processes of mass transfer for the treatment of water and soil  
Activities: Measurements in HPLC, and I worked in the materials development (ceramic).

## Publications

- Méndez-Fragoso R., Villavicencio-Torres M., **MARTÍNEZ-MORENO J.** Design and use online platforms to learn mathematics and the use of them in simulations of problems in applied sciences. *Submitted*.

## Conferences

- **Technology and Its Integration in Mathematics Education (TIME 2016)** –Mexico City (July, 2016)  
Design and use online platforms to learn mathematics and the use of them in simulations of problems in applied sciences  
J. Martínez, R. Méndez.

## Invited Talks

- **Tour with Science** – 2015  
“One work day in cruise UNAM’s R/V Justo Sierra I” at General Direction of Popularization of Science.
- **XV High School Symposium of Sciences** – 2011  
“Coral bleaching, effects, causes and consequences”.

## Languages

- First Language: Spanish
- Second Language: English
- Third Language: French (Intermediate)

## **Programing Languages**

Python, Matlab, R, HTML, CSS, PHP, JavaScript,  $\text{\LaTeX}$  and Fortran (Basic)

## **Awards**

- Second place on the Scientific Poster Contest of Short Internships on Biology Area during the XVI Scientific Exhibition of Short Internships through the Youth toward Research Program.