

# GROUP 2

## Topic 2

**Organic matter decomposition.**  
**Environmental constraints and biological  
optimizations**





# Dalida Bedikoğlu, M.Sc., 2020

*Institute of Marine Sciences & Management,  
Istanbul University, Turkey*

- **I like to feel free and equal.**  
That's exactly how I feel on the sea during research cruises.
- **I hope one day;**  
I will participate in research expeditions in the open oceans and high seas..



THE RAMON MARGALEF  
SUMMER COLLOQUIA

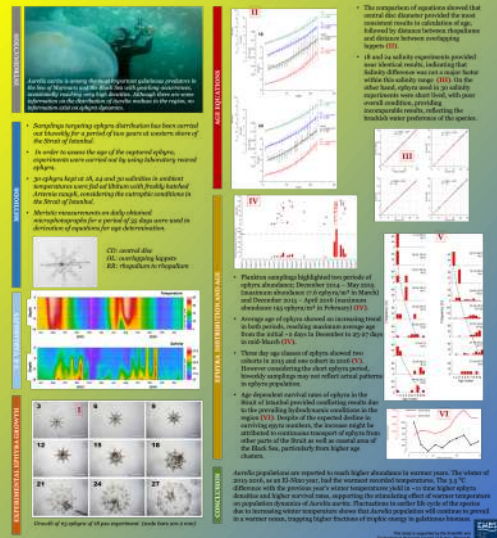
New Goals;

- As a PhD candidate, the research question is; In a permanently stratified ecosystem, what role does the DVM of zooplankton play in the carbon cycle?
- Afterward, testing climate change and acidification scenarios by experiments and models

Recent Projects;


**Growth, adaptation and distribution of *Aurelia aurita* ephyrae in the Strait of Istanbul**

I. Noyan Yılmaz\*, Dalida Bedikoğlu  
*Department of Marine Biology, Istanbul Kültür University, Istanbul, Turkey*

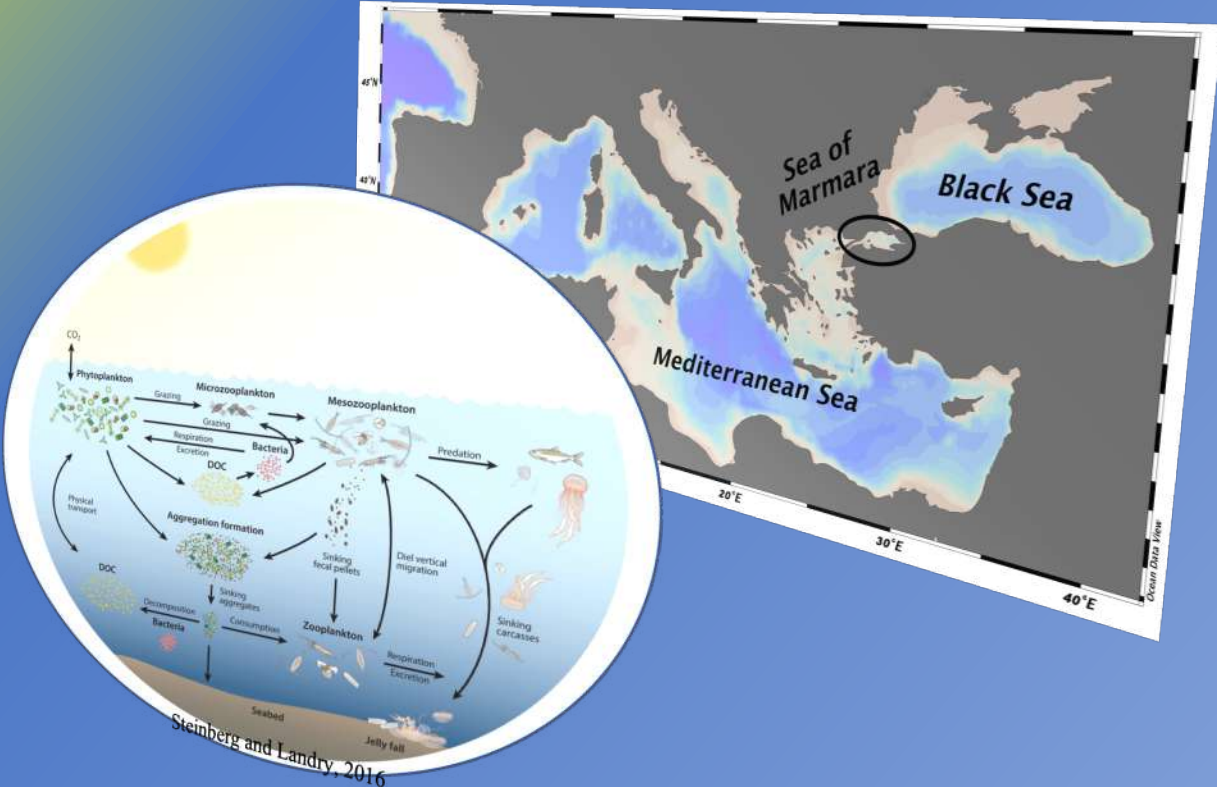


**Life history and population of two marine cladocerans**

Dalida Bedikoğlu, I. Noyan Yılmaz and Nazlı Demirel



➤ My expectation from Ramon Margalef Colloquia is to better understand the carbon cycle mechanisms in ecosystems, and thus to make up for the deficiencies in my dissertation that I am still planning.





### Oscar Beltran



Home



Background



Interest



Hobby



Motivation



### Career in science

- Scientific Interest: phytoplankton blooms
- Career stage: PhD candidate
- Plans for the future: continue doing research

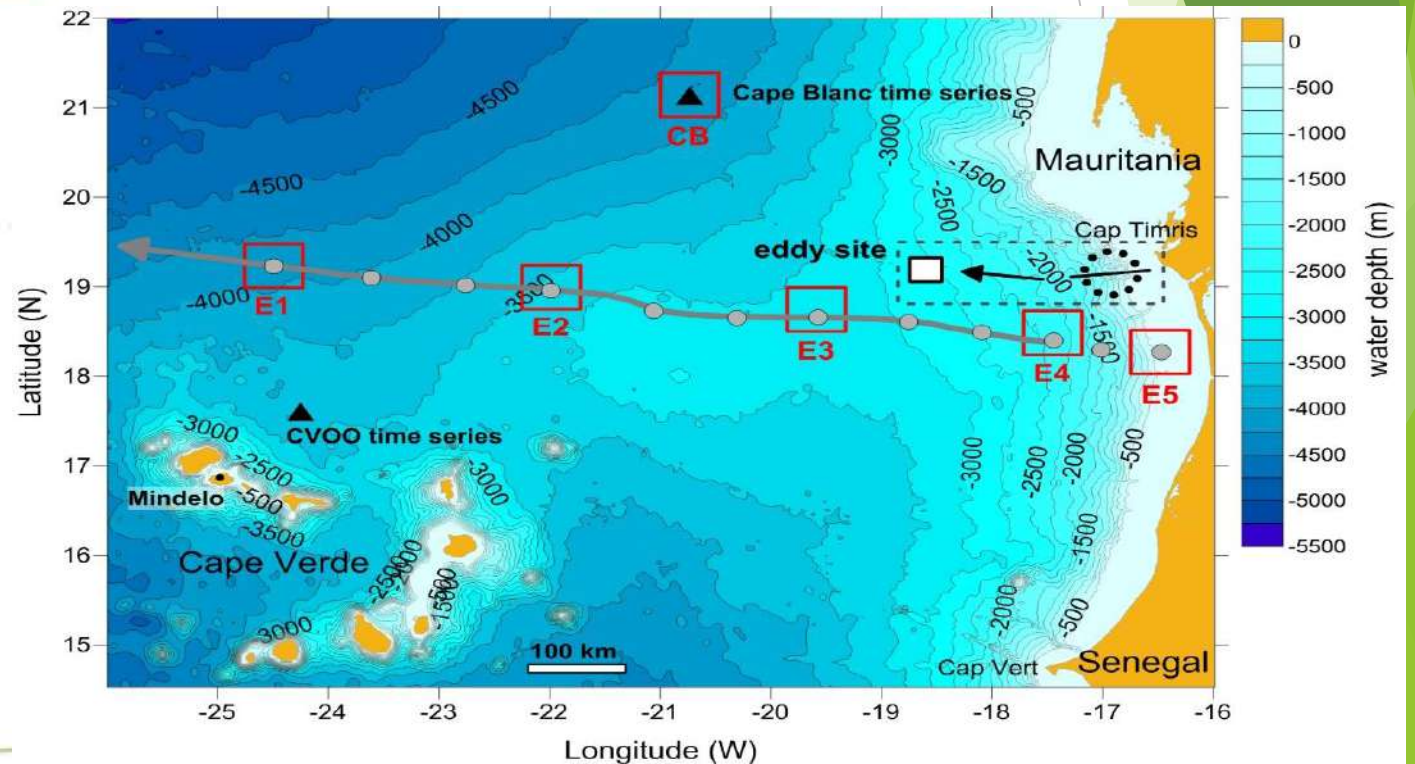
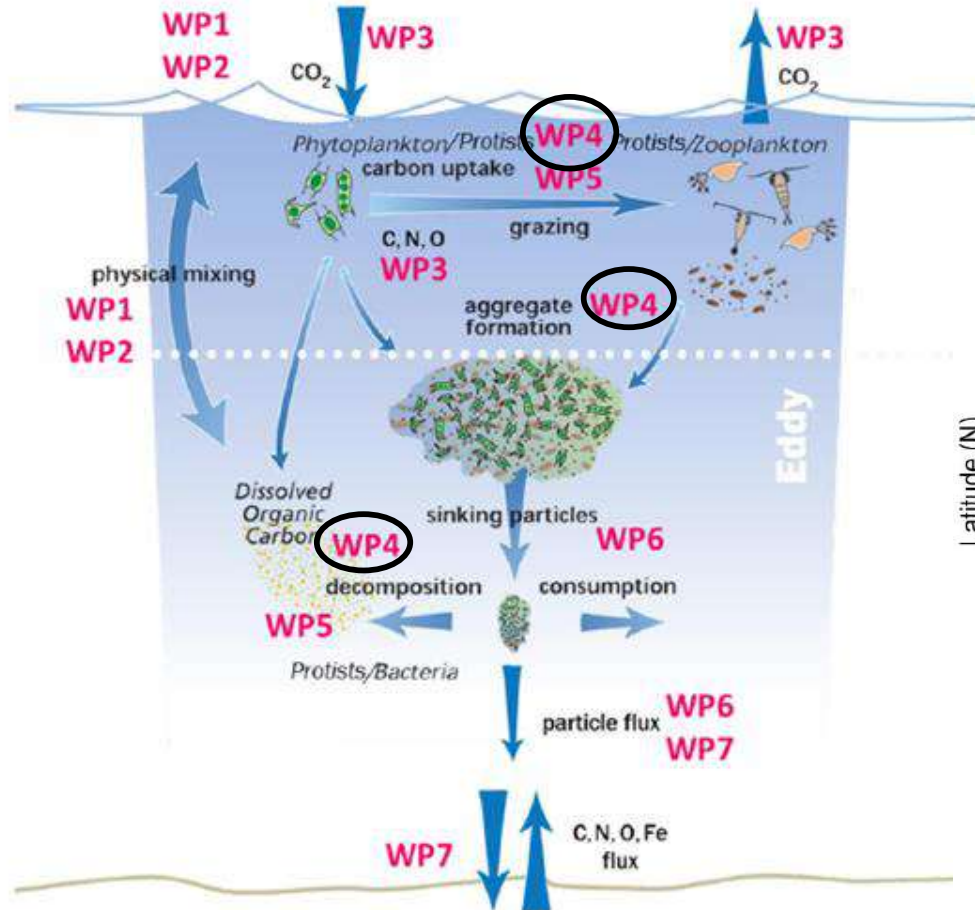
### What do I expect from the RMSC 2021?

- Understand the interactions and processes that affect phytoplankton blooms.
- Expand my professional network and establish the basis for a future collaboration.

Quentin Devresse (qdevresse@geomar.de)

PhD Student at GEOMAR (Kiel, Germany) supervised by Pr Anja Engel

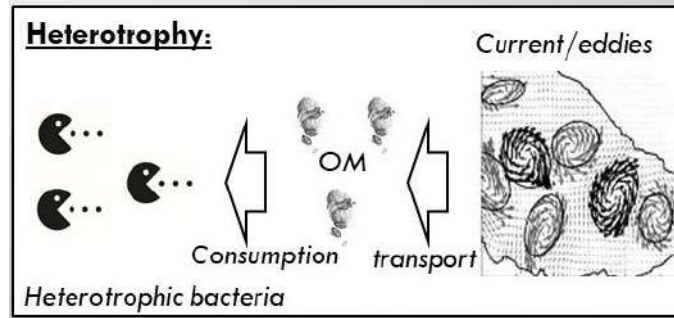
Focus on the role of eddies on the upper ocean organic carbon dynamics (REEBUS project, WP4) in the Canary upwelling system (Cape Verde - Mauritania)



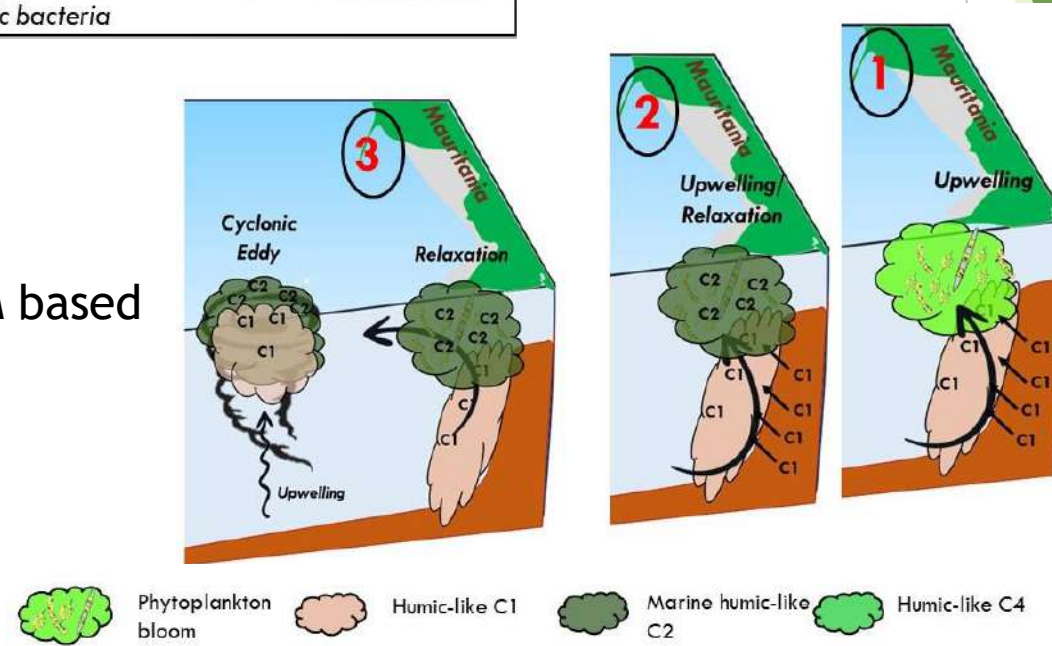


## My work focus on the impact of eddies on:

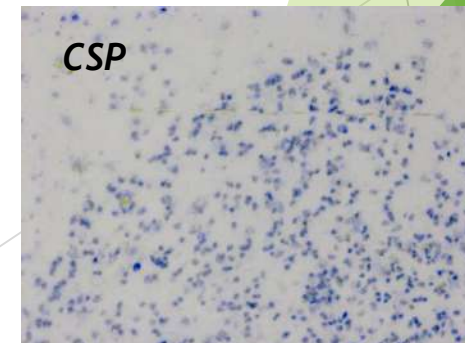
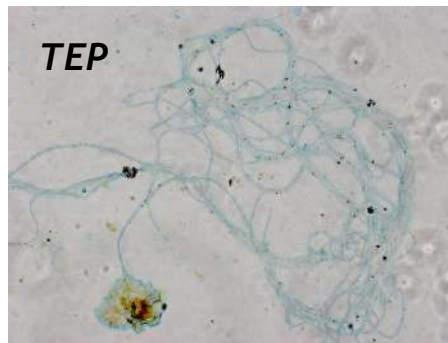
- Bacterial/community respiration



- Transport, production, degradation of DOM based on optical properties (CDOM;FDOM)



- Gel particles (TEP; CSP) agglomeration/distribution





# Miquel «Kel» Ferrín

PhD student in Terrestrial Ecology

Ecological response of arthropod communities to global change

Functional biogeography – Community ecology – Soil ecology – Entomology – Metabarcoding

**UAB**



**CREAF**



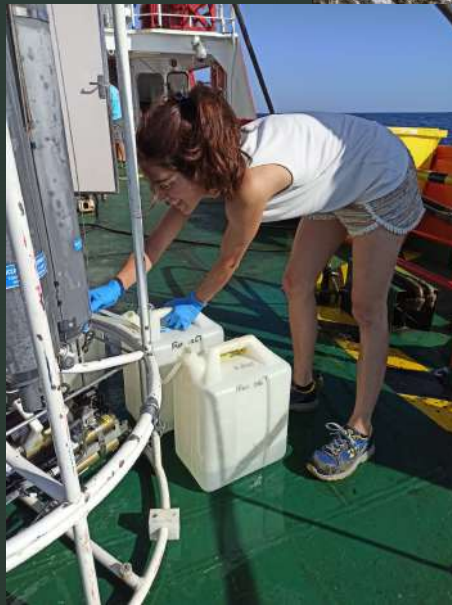


In my first year of PhD research:  
Currently working with (1) European springtails (2) tropical insect, fungi, bacteria and trees (3) Icelandic springtail communities.



The RMC can give me a more integrative and holistic perspective on terrestrial ecology, namely, biogeochemical dynamics and how OM are used by organisms.

# ▀ QUERALT GÜELL-BUJONS



**From the central catalan countryside.  
Lived in Copenhagen, Vienna and  
finally back to Barcelona.**

**In love with the Pyrenees and in process  
of falling in love with the Mediterranean  
Sea.**

**The appetite for learning new things led  
to the start of a PhD..**

## **My research**

**\_Dimethylated sulfur compounds (DMSCs) as infochemicals in marine microbial interactions**

**\_Chemotaxis. Selective grazing. Weak, stressed preys.**

**\_2<sup>nd</sup> → 3<sup>rd</sup> year PhD researcher**

## **My expectations**

**\_ Zooming out of my topic and learning to contextualize.**

**\_Connecting different environments by working with scientists from different fields.**

**\_Learning how to lead and participate to scientific discussions.**





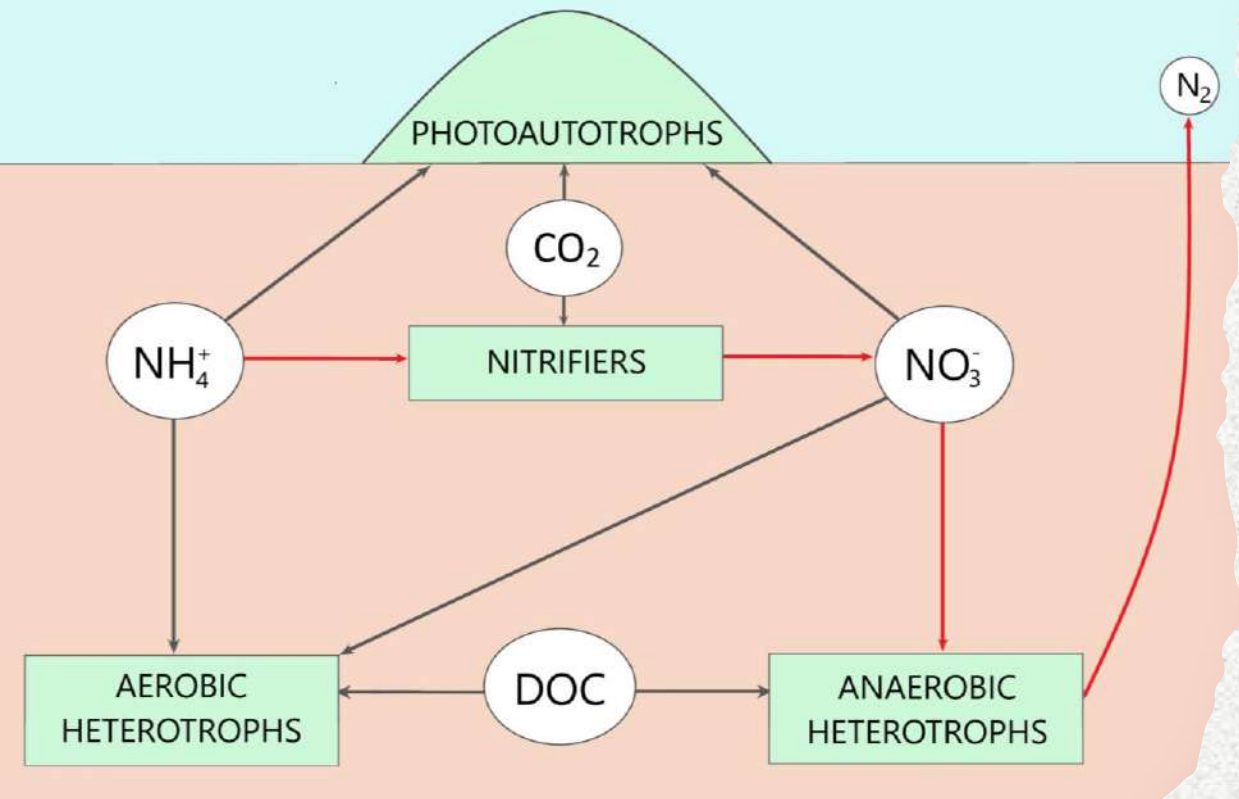
# Xavier Peñarroya - Xavi

PhD student at CEAB - CSIC

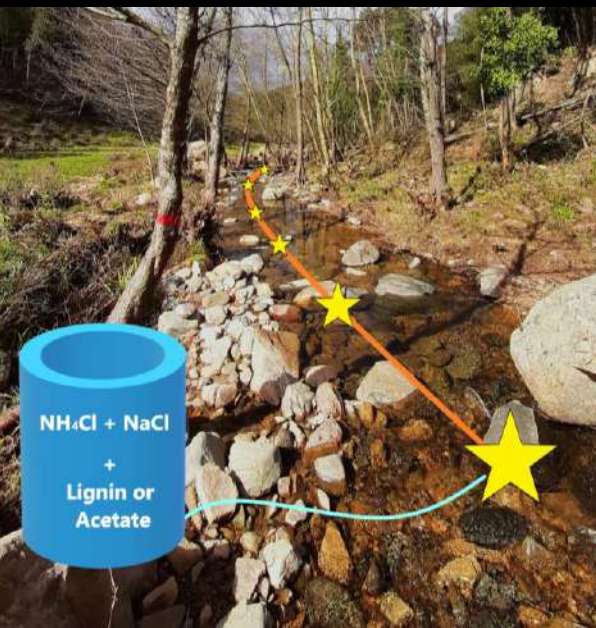
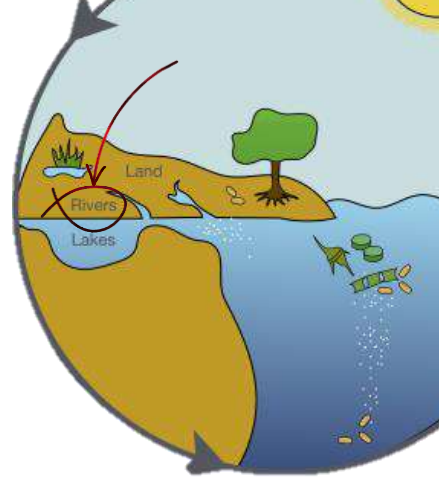


- Environmentalist
- Biology conservationist
- Travel
- Photography
- GIS mapping
- Trekking & Mountain biking



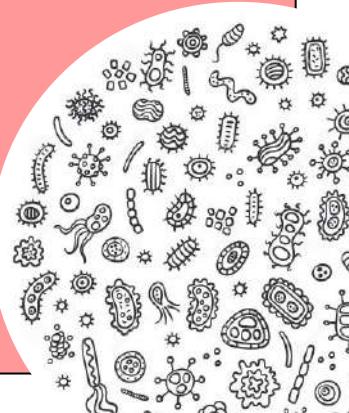


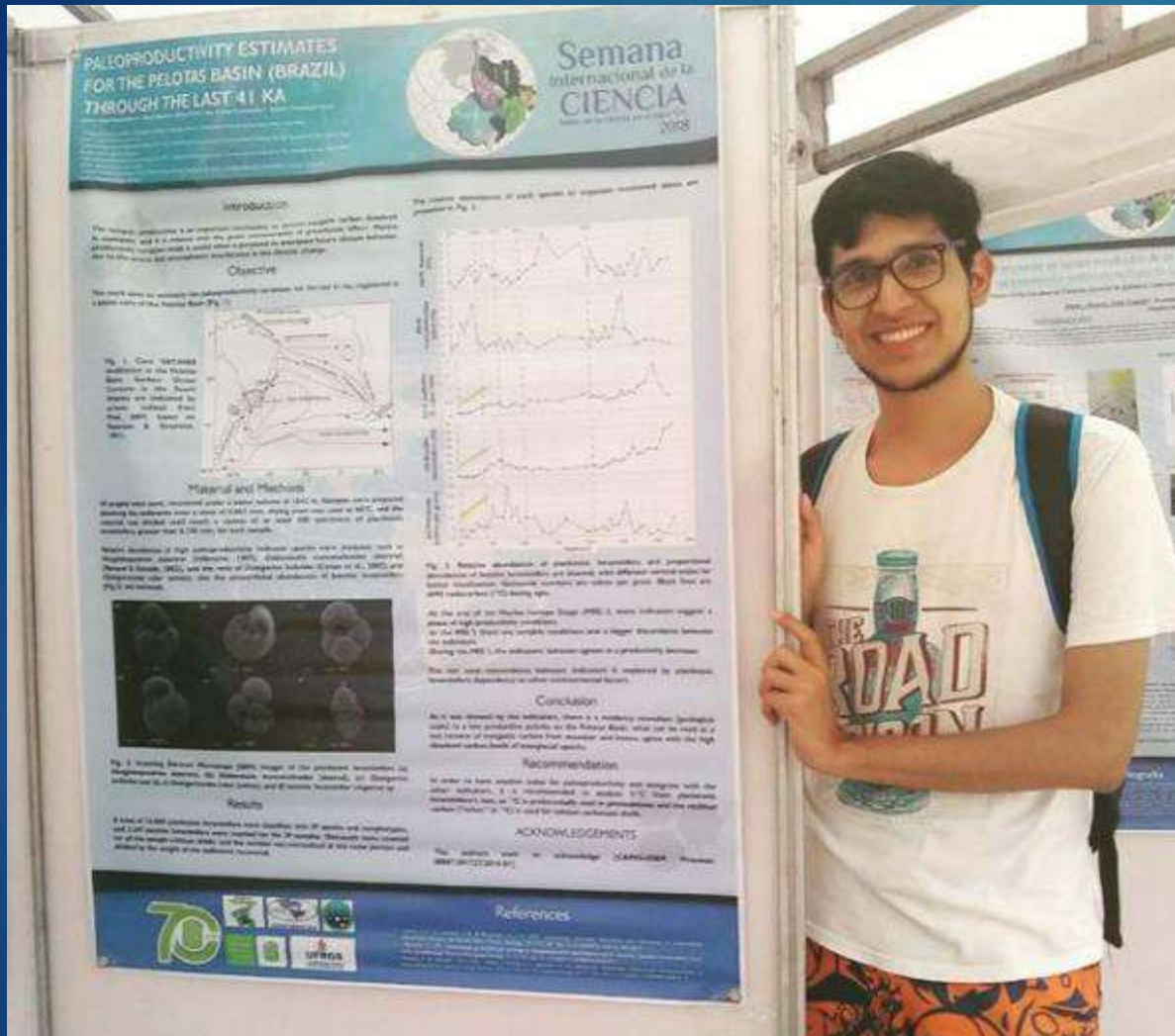
- **Study area:** headwater streams.
- **Research:** links between carbon and nitrogen biogeochemical cycles.
- **Scale:** molecular
- **Experiments:** whole reach & lab incubations



## Margalef Colloquia Expectations

- Meet people
- Get new ideas
- Share our findings
- Link knowledge





JAIME

Languages

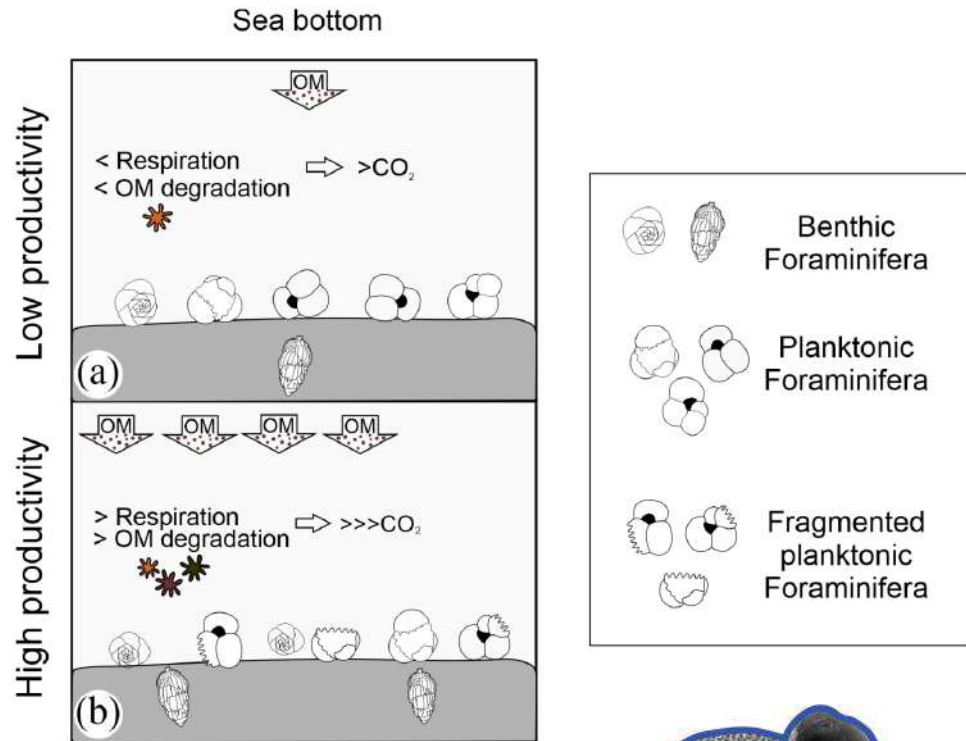
Cultures

Food

Forams

Professor/Researcher



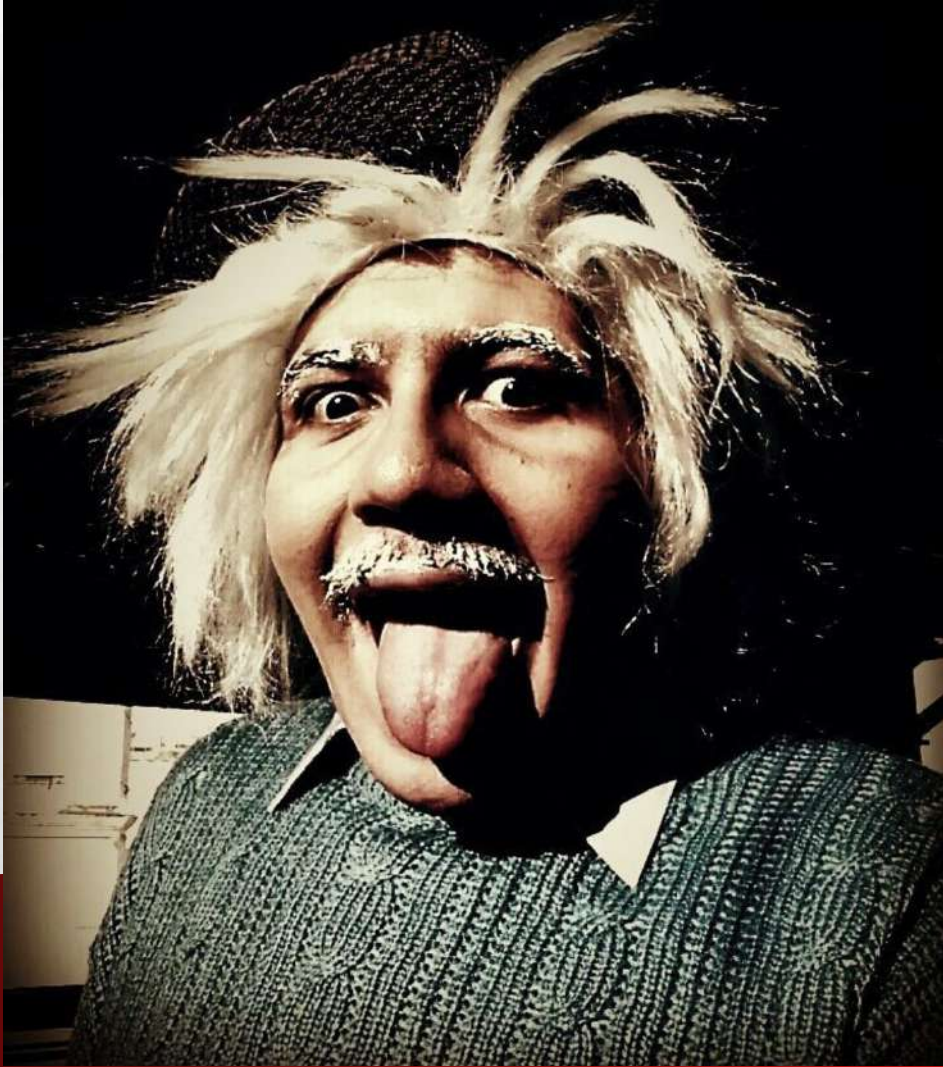


- ▶ Environment  $\leftarrow$  impact  $\rightarrow$  planktonic foraminifera (MSc)
- ▶ Evolution of planktonic foraminifera in response to environmental changes (PhD)
- ▶ Actual storage of biogenic carbonates (Post-doc) ?

- ▶ Knowledge, training, connections, future opportunities

Biological adaptations (Topic 1)

Carbon sequestration efficiency (Topic 3)



## Konstantinos-Marios Vaziourakis/Kon

PhD student in Limnology, Uppsala University, Sweden

M.Sc. in Environmental Oceanography, University of Patras, Greece

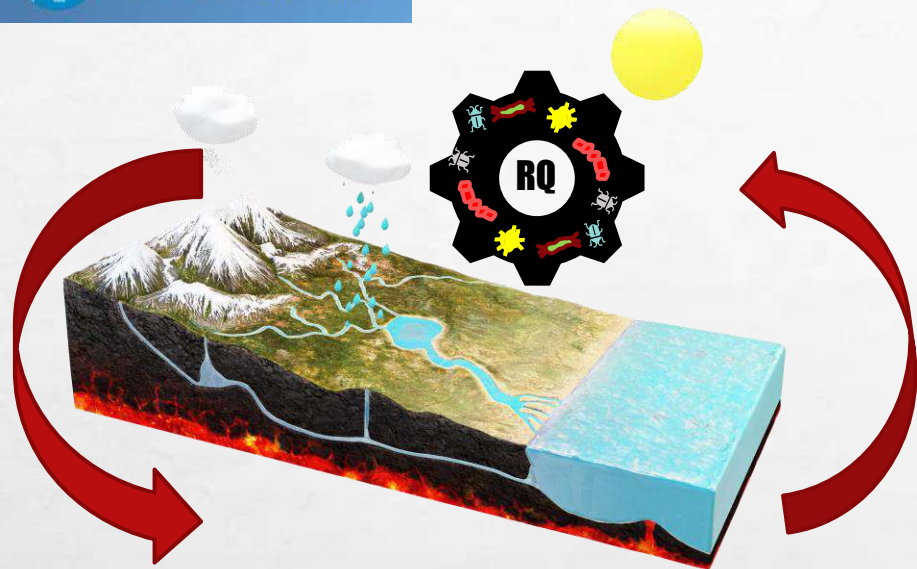
B.Sc. in Geology, University of Patras, Greece

Dreaming a career that combines my love for theater and my passion for science...in other words as Science Re-actor

*The most beautiful thing we can experience is the mysterious.  
It is the source of all true art and science.*

*Albert Einstein*





- ❖ 1<sup>st</sup> year PhD student in Biogeochemistry and Microbial Ecology
- ❖ Under the umbrella of organic matter (OM) cycling across the aquatic continuum
- ❖ Ongoing project:  
Studying the dynamics of Respiratory Quotient (RQ) across various ecosystems, addressing the factors that control OM microbial mineralization in a broad spatial scale.



During the days of RM colloquium, we will try to make a challenging puzzle



Pieces from **different environments** will meet people of **different fields** that try to:



Communicate



Exchange knowledge and perspectives



Build bridges for understanding the complex Carbon Cycle in a variety of ecosystems