

From past landscape and climate reconstruction

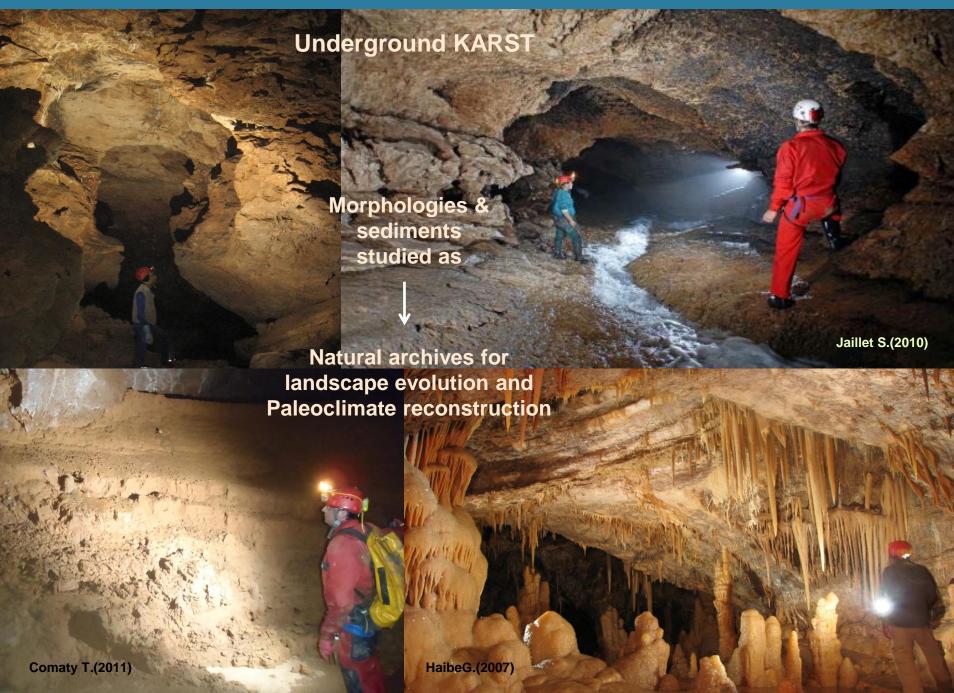
To present societal perception of landscapes

**Carole Nehmé** 

Physical geography:
Present dynamics
&
Past environments

Université de ROUEN – NORMANDIE UFR Lettres et Sciences Humaines Laboratoire IDEES – UMR 6266

#### Career Path



#### Carole Nehmé

PhD Geography – 2013

Co-tutorship. Univ. St Joseph-Beyrouth & Univ. Savoie Mt Blanc. 2009-2013

Post-doctorate. Royal Natural Institute Natural Sciences (IRNSCB) & Vrije Universiteit Brussels 2014-2016

Teaching – Geography Univ. Savoie Mt Blanc & Univ. Paris Sorbonne IV. 2015-2016

Research experience in physical geography related to (paleo) environmental issues s.i. (including societal dimensions)

**Interface Environnements/Societies** 

University teaching experience and motivations for becoming lecturer-researcher > Strong professional objective

Involvement in open trainings on present environmental issues





Lecturer (Maître de Conférences)

Physical Geography: landscape dynamics & paléoenvironnement
Geography department, University of Rouen Normandy

Laboratory IDEES - CNRS

# Background

### **Université St-Joseph – Beyrouth (Lebanon)**

### **Undergraduate & Graduate degree in Geography**

«Environnement & landscape management» «Global» geography / environmental & landscape management issues Tools: mapping, metrology, database, GIS

M1: Flood hazards in the northern suburbs of Beirut

M2: Geomorpholgical mapping of karst caves: case of Kanaan

cave

#### Motivations for such studies:

- Hobby as Caving & outdoor activities
- High potential of karst geomorphology in Lebanon
- International collaborations: France Université de Savoie

#### **PhD geography** (2010-2013)

Funding: CNRS Lebanon & St-Joseph Univ.

**Subject**: Paleogeography reconstruction of coastal valleys of Mt Lebanon using karst archives during Plio-Quaternary period

**Collaboration during the PhD**: research project of seismic risk in Lebanon & use of stalagmites as archives for paleoseismic events

More interest in the interface between geosciences & human/social sciences

### Parallel to my studies

#### **Urban observatory**

Landscape management projects Local development projects

School teacher History/ Geography (Collège), Lycée français de Beyrouth

#### Scientific added-values

- Team work
- Research network
- Multidisciplinarity
- Learning new methods
- GIS, 3D Imagery, modeling, geochemistry

### **Post-doctorate** (2014-2016)

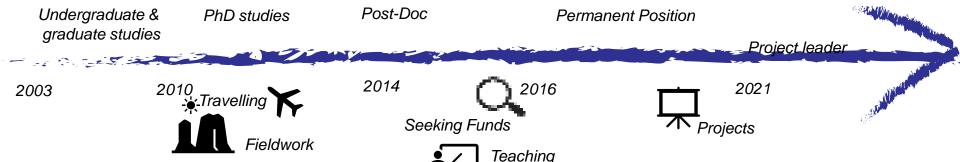
Funding: BELSPO

**Subject**: paleoclimate reconstruction using geochemical proxies in speleohtems focusing on the last interglacial period.

**Seeking for funding to continue research**: 5 projects submitted with 1 success.

#### Scientific added-values

- Conferances & summer schools
- Growing research network
- Learning new methods (Lab work)
- Writing research proposals
- Improving writing in english



Communicationg

# Main projects

## **Normandy (France)**

PAL-ECO-NOR project (Project Leader)

Climatic and anthropogenic signals recorded in speleothems from Normandy during the Holocene

Collaborators: ECODIV, IPSL, BGS, EDYTEM,

U.Melb, FFS

Funds: Normandy region

Quration: 2019-2022

## Patagonia (Chile)

GEOCEBE project (Collaborator)

Geoarchaeology of caves from Cerro Benitez, Última Esperanza, Chilean Patagonia

Collaborators: U.Mag, U

Buenos Aires, Eurasia Inst of

Earth Sc., U.Colorado

Funds: FONDICYT / CNRS

Duration: 2016-2018

## Middle-East (CY, LB)

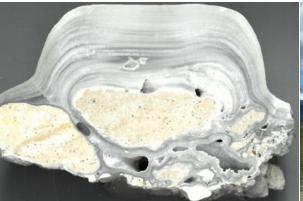
HIGH-PASM (Project Leader)

Climate Change and societal resilience for the last millennium in Cyprus

Collaborators: U.Nicosia, U.Minnesota, U. St-Joseph

RBINS, KIT Fund: ANR

Duration: 2021-2025

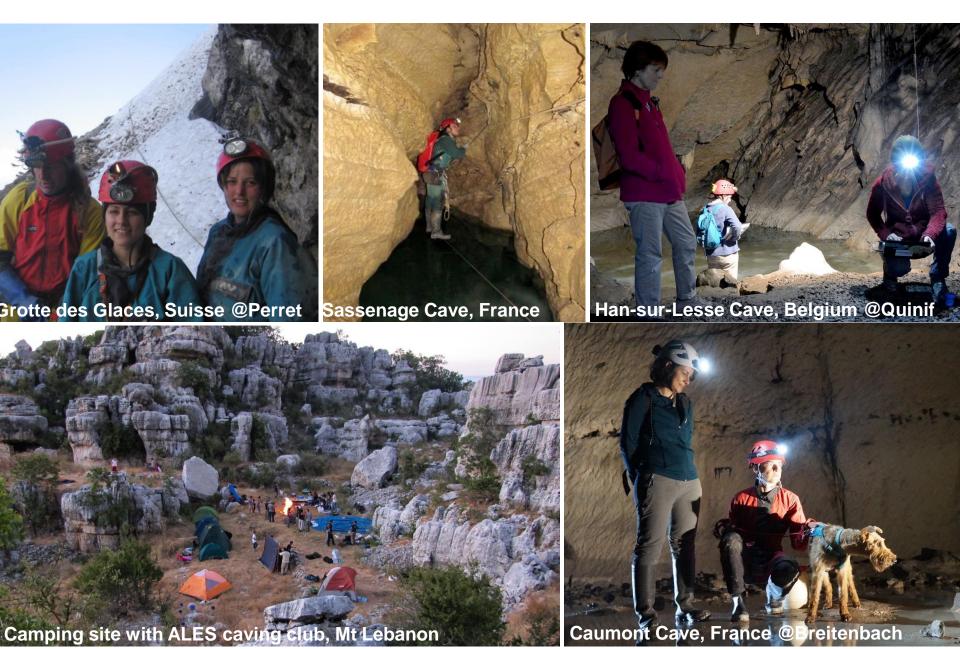








## Field work & Hobby



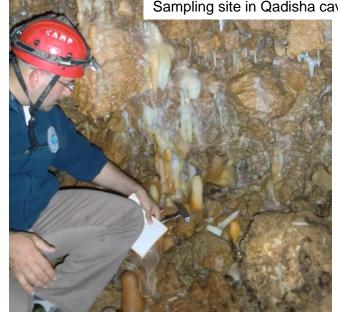
Collaboration with cavers



## Field work with students & int. collaboration



Sampling site in Qadisha cave, Lebanon





Caumont cave, Normandy, France

# Funny field setups











Chica Cave, Patagonia, Chile



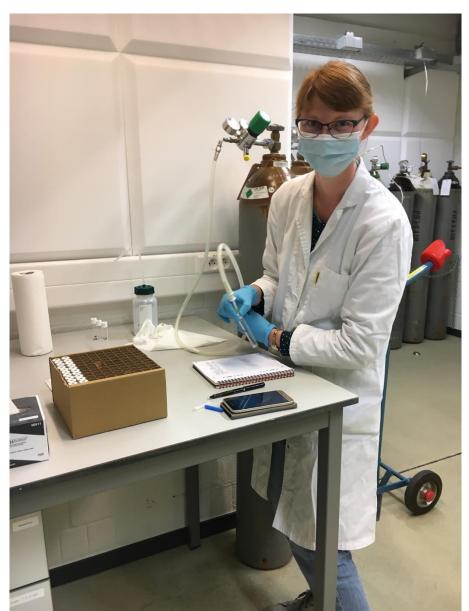
## Collaboration with cavers & researchers with new field studies



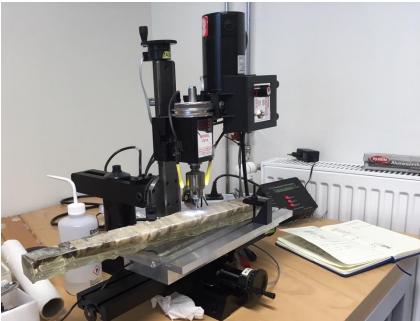




# Working with Engineers and lab work







# Communicating science



- Choose a job you like.
- Choose to work with the people you like to work with !!
- Post-Doc time might be a hard. People in your network might help.
- Science in your third language might be hard sometimes but you will improve with time.
- Being a woman in the field of geosciences is a challenge in some countries but can be an example as well.
- Travelling is fun during earlier stages of your career, but it gets more challenging with time (admin stuff, personal life).
- No harm to slow down in science when you reach your mid-career stage.
   Don't get overwhelmed by the system when you can
- Your personnal life is important. I kept postponing it until I found professional stability.

