

PRESENTATION: **DÁNAE SANZ PÉREZ**



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- I am a geologist and palaeontologist.
- Currently, I am a PhD student at the School of Geological Sciences of the Complutense University of Madrid.
- My line of research focuses on the palaeoenvironmental, palaeoecological and palaeoclimatic study of the continental Cenozoic from the analysis of stable isotopes in mammal fossils.

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RESEARCH INTEREST

- ❖ The application of stable isotope analysis to **Cenozoic (or modern) ecosystems** with the objective of characterizing **palaeoclimatic**, **palaeoecological** and **palaeoenvironmental** traits.



THE CONTRIBUTION OF STABLE ISOTOPES TO MY RESEARCH

My research background focuses on the investigation of past environmental and climatic changes by means of geochemical analyses. I analyse the isotopic composition of tooth enamel and bone



- ❖ To make **palaeoclimatic** and **palaeoenvironmental** inferences for the **Pampean region** (Argentina) during the late **Pleistocene glacial-interglacial** phases.



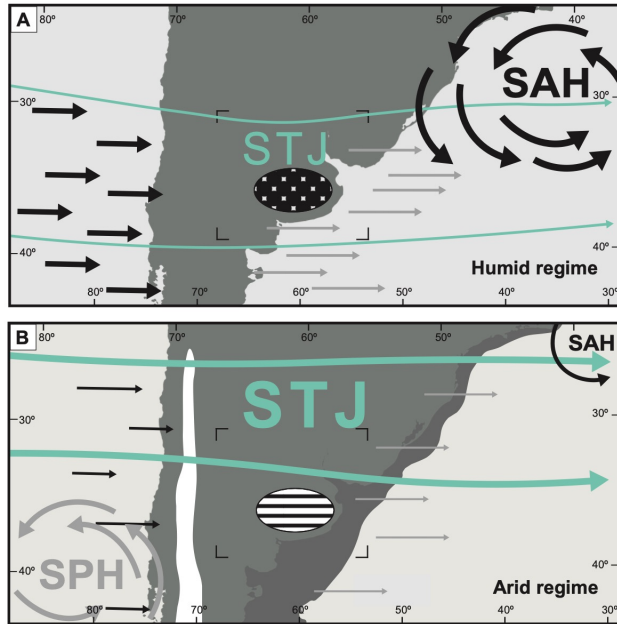
- ❖ The **predator-prey relation** of the ancient mammal **Smilodon** by means of Bayesian mixing models with the aim of understanding patterns of change in trophic interactions through time



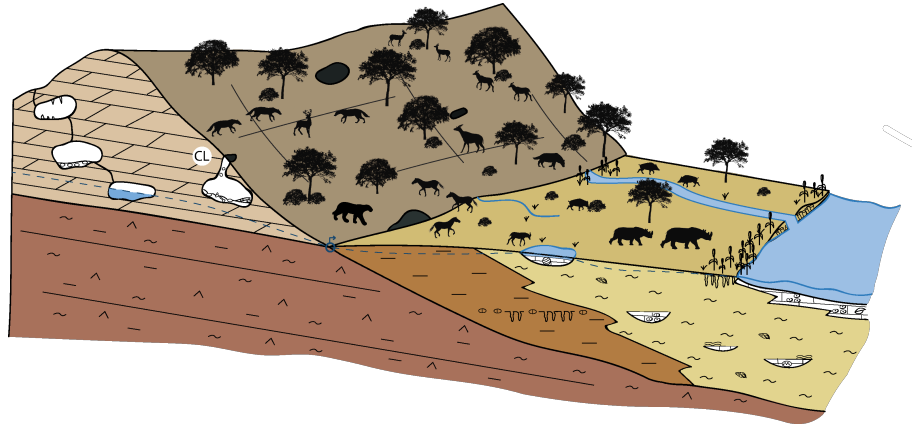
- ❖ Establishing the **palaeoecological** and **palaeoenvironmental reconstruction** of the Upper Miocene vertebrate karst site of **Corral de Lobato**, central-eastern Spain.

THE CONTRIBUTION OF STABLE ISOTOPES TO MY RESEARCH

PALAEOCLIMATE INFERENCES



PALAEOENVIRONMENTAL INFERENCES



HOW THIS COURSE COULD IMPROVE MY RESULTS

- I think this course, with international faculty and the laboratory practices, **will provide me new skills in the field of stable isotopes** and help me to heighten my researcher profile in this specific field.
- To date, I have only applied stable isotope techniques to past ecosystems, so I believe this course would help me **to implement new lines of research**.

