

# Barbora Křížová

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## Education

### **MASTER'S DEGREE | 5.6..2018 | CHARLES UNIVERSITY IN PRAGUE**

- Field of study: Geobiology, Study programm: Geology
- Final thesis: Rudist assemblages of the Upper Cretaceous "pocket" infills in the Teplice rhyolite - systematics, palaeoecology, stratigraphy.
- Grade: Excellent (1; in range 1-5).

### **BACHELOR'S DEGREE | 17.6.2016 | CHARLES UNIVERSITY IN PRAGUE**

- Field of study: Geobiology
- Final thesis: Coral reef assemblages in the Earth history.
- Grade: Very good (2).

## Academic experience

### **Graduated and post-graduated courses (prepared-attained)**

#### **ISOTOPE STRATIGRAPHY OF CARBONATE PLATFORMS | ONLINE, UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II | 27.-29.4.2021**

- Course in integrated chemostratigraphy given by Prof. Mariano Parente.

#### **FLÜGEL COURSE | ERLANGEN, GERMANY | 2020**

- Course in Carbonate rocks microfacies.

#### **SPECIAL COURSE IN SEDIMENTOLOGY OF BOHEMIAN CRETACEOUS BASIN | 2019**

- Managing contracts between the Faculty of Sciences, Charles University in Prague and specialists from the Czech Geological Survey. Organizing meetings with students.

#### **SPECIAL COURSE IN STABLE ISOTOPES USED IN FORAMINIFERA RESEARCH | CHARLES UNIVERSITY IN PRAGUE | 28.11.2019**

- Organizing a course for specially interested students with a postdoc who works in Stable isotope geochemistry used in the foraminiferal research.

#### **WORKSHOP: Sr-ISOTOPE STRATIGRAPHY | CHARLES UNIVERSITY IN PRAGUE | 2.4.2019**

- One day special course in Sr-isotope stratigraphy held by a professor from foreign university

#### **CARBONATE SEDIMENTOLOGY | UNIVERSITY OF BARCELONA | 2016**

- Course including four-day field trip in Maestrat basin (logging and describing sections, working with thin-sections, using modified Dunham Classification System).

## Professional experiences

- Clumped isotope analyses in carbonate rocks at Utrecht University. Samples preparation for the analyses: micro drilling (following individual growth lines of rudist shells), weighing in and performing the analyses.
- Laboratory analyses of  $\delta^{18}\text{O}$  and  $\delta^{13}\text{C}$ . Samples preparation for the analyses: cutting, polishing, drilling, and weighing in at University of Ferrara.
- Field work in Friuli Carbonate Platform. Close-spaced sampling, detailed section description with a special regard to rudist bivalves-rich levels.
- Photo-lab of the National Museum in Prague (preparing and cleaning the samples with the ultrasound, coating with ammonium chloride, taking photographs (the camera Canon EOS 6 and Olympus SZX12 with camera DT72), editing the photographs in Adobe Photoshop CS6 and creating the Figures in

Adobe Illustrator CS6. All under the leadership of the head of the Palaeontology department, Mgr. Jan Sklenář, PhD.

- Working with MicroCT in Slovakian Academy of Sciences, Banska Bystrica in a project of the Grant Agency of Czech Republic (GAČR).
- Working with low vacuum mode SEM (without iron coating) in the laboratory of the National Museum in Prague in a project of the Grant Agency of Czech Republic (GAČR).
- Working with a museum collections in Chlupáč's Museum of Earth History, Faculty of Science, Charles University in Prague, Regional Museum of the city of Teplice and National Museum in Prague (processing old collections, systematizing them and describing according to modern Systematic palaeontology).
- Field work in the Bohemian Cretaceous Basin (collecting samples and logging sections).

## Studying abroad

### FOREIGN STAY | 17.10.-18.12.2021

- Two months at Utrecht University, Netherlands. Working in clumped isotope laboratory.

### ERASMUS | 2016/2017

- One semester as Erasmus student at the University of Barcelona, Spain. Attending courses at the Faculty of geology (field of study: Reservoir geology and Geophysics) as well as at the Faculty of biology (field of study: Oceanography and Marine environment management).

## Publications

- Křížová, B., Radoň, M., Sklenář, J., Košťák, M., Mazuch, M. (under moderate revisions in Cretaceous research) *Plagioptychus* (Hippuritida) dominated assemblage from northern Peri-Tethys margin (Bohemian Cretaceous Basin, Cenomanian-Turonian transition)
- Křížová, B., Kohout, O., Košťák, M., Mazuch, M. (published) Life on the edge of the realms. *Živa*, ISSN 0044-4812. (in Czech)

English annotation: Fossil material from the Bohemian Cretaceous Basin illustrates shifts of the boarder of two biogeographic realms – cold, Boreal and tropical, Tethyan. This implies climatic fluctuations (colder pulses) within one of the warmest periods in the Earth history (Cenomanian-Turonian in the Upper Cretaceous).

Awarded in annual rewards of the *Živa* journal in “Best article by young authors” category.

## Abstracts

- Krizova B., Consorti L., Tunis G., Struck U., Franceschi M., Bonini, L. and Frijia, G. (2021) Isotope Stratigraphy (C and Sr isotopes), Facies analysis and Rudist distribution in the Upper Cretaceous shallow water carbonates of the Friuli Carbonate Platform (poster presentation)
- Křížová, B., Radoň, M., Sklenář, J., Košťák, M. (2019) The earliest known record of genus *Plagioptychus* (rudist Bivalvia) in the Cenomanian of the Bohemian Cretaceous Basin and its role in the Coral-Rudist Lithosomes. IMERP 2019, Spain, June 11<sup>th</sup> to 14<sup>th</sup> 2019 (oral presentation).

## Work experience

### SCIENCE TEACHER | CO. VĚDA NÁS BAVÍ (WE ENJOY SCIENCE) | 2017 – 2018

- Teaching Science in two elementary schools (student's free time activity).

### GUIDING GEOLOGICAL WALKS FOR CHILDREN | EMPLOYEE IN FAMILIES | 2014 – 2017

- Educative walks around Prague, Czech republic through interesting geological and fossiliferous sites.

### GUIDE IN THE MUSEUM OF MINERALOGY | CHARLES UNIVERSITY IN PRAGUE | 2013 – 2016

- Guiding families and school groups through the Museum of mineralogy during the regular and special opening days (i.e. Museum night).

## Language skills

- Czech: native
- English: fluent in written and spoken
- Italian: intermediate

### *DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000)*

*- Il/La sottoscritto/a, ai sensi e per gli effetti degli articoli 46 e 47 e consapevole delle sanzioni penali previste dall'articolo 76 del D.P.R. 28 dicembre 2000, n. 445 nelle ipotesi di falsità in atti e dichiarazione mendace, dichiara che le informazioni riportate nel presente curriculum vitae corrispondono a verità.*

*- Il/La sottoscritt0/a dichiara di essere informato/a, ai sensi del d.lgs. n.196/2003 e del GDPR 679/16 – “Regolamento europeo sulla protezione dei dati personali” che i dati personali raccolti saranno trattati anche con strumenti informatici esclusivamente nell’ambito del procedimento per il quale la presente dichiarazione viene resa e per tutti gli adempimenti connessi.*

Signed: BARBORA KRIZOVA