

## FIELDS OF EXPERTISE

---

Stratigraphy of carbonate and clastic rocks; Diagenesis of carbonate rocks; Structural geology with emphasis on Faults and Fracture analysis, Multi-scale geological mapping.

## WORK EXPERIENCE

---

Aug 2020 – present **Term-contract worker** on "ANELLO DEI SIBILLINI - INTERCONNESSIONE ATO 3 - 4 -5", detailed geological mapping of the selected areas of the Sibillini mountains, Italy; University of Camerino and Marche Region

Oct 2019 – March 2020 **Internship at Royal Shell**, "Carbonate diagenesis of subaerial exposures"  
The analysis and assessment of the diverse effects that Sea-Level-driven subaerial exposures on carbonate strata (e.g. substrate cementation, diffuse matrix dissolution, pervasive karstification, accumulation of insoluble residue) as a function of key controlling factors.

Aug 2018 – July 2020 **Postdoctoral Research Scholar**, University of Camerino, Italy.  
Evaluation of the tectonic evolution of the Monte Gorzano area, with particular emphasis on the activity of Monti delle Laga Fault. Interpretation of field obtained stratigraphic columns and interpretation of seismic sections, constructing balanced cross- sections, fracture and geochemical analysis.

May 2017 – Present **Academic instructor** at International Geology Field Camp - George Mason University/  
University of Camerino

## EDUCATION

---

Nov 2014 – Oct 2018 **PhD in Chemical and Physical Processes on the Earth**, School of Advanced Studies, University of Camerino

*Dissertation:* "Tectonic and gravitational features in the near-slope basinal carbonates".

*Advisors:* Prof. Dr. Emanuele Tondi, Prof. Dr. Claudio Di Celma, University of Camerino

The research project was co-sponsored by Shell Italia E&P and Total Italia E&P through the Reservoir Characterization Project ([www.rechproject.com](http://www.rechproject.com)).

Nov 2011 – Oct 2014 **M.Sc. in Geoenviromental risks and resources**, University of Camerino

*Thesis:* "Structural features of mass-transport deposits within basinal carbonates from southern Italy"

Jul 2013 - Jun 2013 **Erasmus Placement Project**, University of Aberdeen

with emphasis on study mass-transport deposits in carbonates under prof. G. Ian Alsop

Sep 2008 – May 2013 **M.Sc. in Physical Geography and Geoecology**, Charles University of Prague

*Thesis:* "Planation surfaces in the Hrubý Jeseník Mountains".

Feb 2010 - Jul 2010 **Exchange student for the Erasmus Project**, University of Camerino

Oct 2004 – July 2008 **B.Sc. in Geography and Cartography**, Charles University of Prague

*Thesis:* "Erosional risk assessment and suspended sediment load in Olšava River basin between 1990 - 2000"

## SHORT COURSES

---

5-6 Jun 2015 – Short course on “The significance of soft-sediment deformation structures”, held by Massimo Moretti, University of Bari

17-22 Sep 2018 - Thermometry, chronometry, barometry and fluid geochemistry in sedimentary basins held by Marta Gasparini, University Roma 3

18-22 Mar 2019 – Flügel-Course: International Course on Carbonate Microfacies, held by Alex Munnecke, Friedrich-Alexander-University of Erlangen-Nürnberg

## KEY PUBLICATIONS

---

- Tondi, E., **Jablonská, D.**, Volatili, T., Michele, M., Stefano Mazzoli, S., Pierantoni, P.P.: (2020) The Campotosto linkage fault zone between the 2009 and 2016 seismic sequences of central Italy: Implications for seismic hazard analysis. *GSA Bulletin*, (December 2020) <https://doi.org/10.1130/B35788.1>
- Jablonská D.**, Pitts, A. D., Di Celma C., Volatili, T., Alsop I., Tondi E.: (2021) 3D outcrop modelling of large discordant breccia bodies in basinal carbonates of the Apulian margin, Italy (special ISSUE: 3D MODELLING OF CARBONATES: TECHNIQUES AND APPLICATIONS AT DIFFERENT SCALES AND PROCESSES). *Marine and Petroleum Geology*, 123, - . <https://doi.org/10.1016/j.marpetgeo.2020.104732>
- Pitts, A. D., **Jablonská, D.**, Donato, V. Di, Mazzoli, S., Spina, V., Celma, C. Di, & Tondi, E. (2020). *Sedimentological and stratigraphic signature of the Plio-Pleistocene tectonic events in the Southern Apennines, Italy: The Calvello-Anzi Basin case study*. *Marine and Petroleum geology*, 116 (December 2019), 104-198.
- Jablonská, D.**; Di Celma, C. N.; Alsop, G. I.; Tondi, E. (2018) *Internal architecture of mass-transport deposits in basinal carbonates: A case study from southern Italy*. DOI:10.1111/sed.12420. pg.1246-1276. In *SEDIMENTOLOGY* - ISSN:0037-0746 vol. 65
- Villani, F., . ... **Jablonská, D.** .... et al. – Open EMERGEO Working Group (2018) *A database of the coseismic effects following the 30 October 2016 Norcia earthquake in Central Italy*. Scientific Data Open Access. Vol. 5, 27 March 2018 DOI: 10.1038/sdata.2018.49
- Civico, R. ... **Jablonská, D.** .... et al. – Open EMERGEO Working Group (2018) *Surface ruptures following the 30 October 2016 Mw 6.5 Norcia earthquake, central Italy*. *Journal of Maps Open Access* Volume 14, Issue 2, 2018, pg. 151-160.
- Korneva, I., Tondi, E., **Jablonská, D.**, Di Celma, C., Alsop, I., Agosta, F. (2016) *Distinguishing tectonically- and gravity-driven synsedimentary deformation structures along the Apulian platform margin (Gargano Promontory, southern Italy)*. *Marine and Petroleum Geology*, Vol. 73, pg. 479-491. DOI: 10.1016/j.marpetgeo.2015.12.009
- Jablonská, D.**, Di Celma, C., Korneva, I., Tondi, E., Alsop, I. (2016) *Mass-Transport deposits within basinal carbonates from southern Italy*. *Italian Journal of Geosciences*. Vol. 135, Issue 1, pg. 30-40.

## TEACHING AND RESEARCH SUPERVISION

---

2018 – 2019 University of Camerino: co-supervisor of M.Sc. student thesis

May – Jun 2017 and May – Jun 2018: University of Camerino and George Mason University: Academic instructor at International Geology Field Camp, Italy.

2015 – Present: University of Camerino: Teaching Assistant during B.Sc. and M.Sc. level courses (Fundamentals of geology; Field Geology; Reservoir Characterization – emphasis on Diagenesis); Academic tutor for B.Sc. students

## FIELD RESEARCH EXPERIENCE

---

Field work focusing on basic and advanced geologic mapping, stratigraphy, fault and fracture analysis in carbonate and heterolithic siliciclastic rocks.

Basin Analysis in the Calvello Thrust top basin, Southern Italy

Stratigraphy of turbiditic succession of Monti della Laga Mountains, Central Italy

Structural and stratigraphy analysis of Mass-transport deposits, Gargano, southern Italy

Fracture analysis of dolostones and tight carbonates, Gargano

Post Seismic field mapping 2016/17 central Italy earthquake epicenter

Fault architecture in tight siliciclastic Macigno Fm, Western Italy

## OTHER SKILLS

---

**Languages** Czech and Slovak (mother tongue), English (fluent), Italian (advanced), German (elementary), French (elementary).

**Personal skills** Strong verbal communication skills acquired during oral contributions at international conferences and industry presentations.

Good organizing skills obtained during *Geology Field Camps* and *International Field Trips*

Good team worker, but critical thinker and fast decision maker acquired in academia and in the field.

**Geological software** Fiji, ImageJ, Stereonet, ArcGIS; CorelDraw X6, Petrel (basic).

**Driving licenses:** A and B (Europe)

7/1/2021

Danica Jablonská

