

SHORT  
CURRICULUM VITAE

PERSONAL DATA

NAME AND SURNAME

**DR. MITJA PRELOVŠEK**

ADDRESS

Titov trg 2, SI-6230 Postojna, Slovenia, EU

TELEPHONE

+386 5 700 19 21

E-MAIL

**mitja.prelovsek@zrc-sazu.si**

DAY OF BIRTH

DECEMBER 3<sup>TH</sup>, 1980

EDUCATION

QUALIFICATION TITLE

*Doctor of science (PhD)*

UNDERGRADUATE STUDY

1999 - 2004

INSTITUTION

University of Ljubljana

Faculty of arts

Department of geography

*Special orientation: research on Karst geography and Environmental protection*

GRADUATE STUDY

2004 – 2009

INSTITUTION

University of Nova Gorica (Karstology graduate study programme)

WORKING EXPERIENCE

PERIOD

**2004 –**

EMPLOYER

Research Centre SAZU (Karst Research Institute ZRC SAZU, Postojna, Slovenia)

WORKING POSITION

Research Fellow

RESEARCH TOPICS/DISCIPLINES

- geography of karst terrains;
- geomorphology & geology;
- speleology;
- carbonate geochemistry and hydrology (dye tracing experiments);
- show caves (management, cave climate);
- karst & cave conservation issues;
- cave exploration & survey (semi-automatic, lidar)

WORKING EXPERIENCES  
(PROJECTS)

- work on PhD (Present-day speleogenetic processes, factors and features in the epiphreatic zone (2004-2009);
- preparation of environmental limitations for touristic exploitation of Postojna and Predjama cave system (2007);
- preparation of Environmental report for extension of Lipica golf course (influence on soil, bedrock and natural monuments; 2008);
- tracing test on Bloke plateau (**Farovščica brook**) – evaluation of water treatment plant's influence on cave Križna jama and nearby underground environment (2007-2008);
- **restoration and reactivation of Lipska pečina Cave (Montenegro) for touristic purposes** (consultant for research-oriented and scientific topics; 2008);
- preparation of expert environmental groundwork for touristic exploitation of the cave Dong Tien in Vietnam (2009);
- measurements of touristic influence on rimstone dams in Križna jama show cave (2006-);

- microclimatic monitoring in Postojna cave system (with special emphasize on CO<sub>2</sub> dynamics and airflow; 2009-);
- determination of influences on karst (caves, water) during construction and operation of new high-speed railway between Divača and Koper (2009);
- Karst Underground Protection (organization of all activities on this Slovenia-Croatia Operational Programme 2007-2013 project; 2009-2011);
- Expert opinion about Safe Driving and Sport Centre Greben (Materija, Slovenia);
- Project 99 (inventory of pollution of 99 caves (sample) at Kras plateau that, due to statistically defined sample, show general situation among 916 registered caves at Kras plateau; project leader);
- Karst Carbon Cycle Quantitative Physicogeographical Determination for the Various Climate Relief Types of Slovenia (PostDoc project leader; 2013-2015);
- preparation of Environmental report for highway Postojna/Divača-Jelšane (impact on caves, karst water and UNESCO World Heritage Site Škocjanske jame; 2014-2015);
- work on bilateral research projects Slovenia-Croatia (present-day processes in caves, 2014-2015) and Slovenia-China (carbon flow in karst, 2014-2015);
- Natural resources of karst show caves: a balance among protection, exploitation, and promotion (national research project; 2016-2018);
- determination of underground water quality at Kočevje polje and pollution of 90 selected caves with wastes (subcontracting activity within Life+ Kočevsko project; 2015-2018);
- environmental monitoring (hydrology, morphology) of new high-speed railway between Divača and Koper (2017-);
- determination of impacts on morphology and hydrology of Kovačeva jama Cave from the side limestone quarry Andraž nad Polzelo (hydrological, geological, hydrogeological and geomorphological mapping and scientific interpretation, dye tracing experiment; 2015, 2018-2019);
- Karst research for sustainable use of Škocjan Caves as World heritage (national applied research project; 2017-2020);
- determination of impacts on caves from the side of Sežana bypass road (2019-);
- geodetic and terrestrial lidar scanning of Križna Cave entrance (rock fall determination; 2016-);
- Establishment of Monitoring to Define Carrying Capacity and Tourist Use of the Cerovac Caves (2019-);
- national license for education of show cave guides (education of 150+ guides on the field of speleology, show cave protection, karst and caves in Slovenia around the world, archaeology and paleontology of caves; 2-3 courses per year; 2014-), national license for a cave guide (2015);
- (co-)organization of annual international meetings (International Karstological School »Classical karst« 2004-2019) and other periodic meetings (Carpatho-Balkan-Dinaric Geomorphological Commission, 2016, Sustainable Management of Show Caves 2019...).

## BIBLIOGRAPHY

<https://bib.cobiss.net/biblioweb/biblio/si/eng/cris/25648>

ORCID: 0000-0002-5415-0309

## OTHER KNOWLEDGE AND SKILLS

### NATIVE LANGUAGE

Slovene

### FOREIGN LANGUAGES

English (fluently), Croatian (fluently), German (basic)

### TECHNICAL SKILLS

- Windows 10 (perfect);
- MS Office 2016 (Word, Excel, PowerPoint; perfect);
- GIS (ArcMap, Surfer, Didger; Speleoliti, PocketTopo; perfect);
- Corel Draw (perfect);
- RiSCAN Pro (perfect);
- HTML, WordPress (good);
- PHREEQC (good);

#### SPARE TIME ACTIVITIES

- Arduino IDE (basic);
  - InDesign (basic);
  - Adobe Premiere (basic);
  - Origin Pro (basic);
  - water sampling, field (T, SEP, pH, water O<sub>2</sub>, air and water CO<sub>2</sub>, discharge, air flow velocity...) and lab work (complexometric and colorimetric titrations (Gran alkalinity, total hardness, Ca<sup>2+</sup> hardness), BOD<sub>5</sub>, spectrophotometric analyses);
  - single rope technique
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- caving:
    - active caver (2002-);
    - Ljubljana Cave Exploration Society (the biggest caving club in Slovenia; president (2011-2014), member of disciplinary tribunal (2017-));
    - co-leader of two diving expeditions to the bottom of the -1.240 m deep cave Renetovo brezno;
    - conducting research activities in caves (geomorphology, hydrology, carbonate hydrochemistry, meteorology/cave climate, speleogenesis; up to -1.240 m);
  - geomorphology:
    - president of the Slovene Geomorphologica Society (2019-);
    - webmaster of the Slovene Geomorphologica Society website (<https://www.geomorfolosko-drustvo.si/> ; 2019-)
  - geography:
    - member of the national research steering committee for humanities at Slovenian Research Agency (2016-);
  - show cave management:
    - member of the national supervision steering committee for Postojna Cave concession at the Ministry of the Environment and Spatial Planning (2019-);
    - key lecturer and member/president of exam committee (Postojna Cave, Škocjan Cave, Križna Cave; 2014- (each year));
  - sport activities (running – runner on two marathons; cycling; summer and winter mountaineering).