Curriculum Vitae

1 Personal information

Name / Degrees	Assoc. Prof. RNDr. **Michal Šujan**, PhD.
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ORCID	0000-0001-7933-8669
H-index (SCOPUS)	7
Nationality	Slovak
Date of birth	10/11/1988

2 Professional experience

Employment, period, employer	**Postdoctoral Researcher**; March 2024 to present; Laboratory of Quaternary Research, Nature Research Centre, Vilnius, Lithuania
	Associate Professor; 01/02/2022 to present; Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia
	Researcher; 02/08/2016 to 31/01/2022; Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia
	External research advisor; 02/08/2009 to present; EQUIS, ltd. – research focused on a geohazard assessment for nuclear power plants in Slovakia, and integration of sedimentology and engineering geology

3 Education and career progress

Date	05/10/2021
Qualification	Habilitation to **Associate Professor** (doc.) (Comenius University in Bratislava, Slovakia)
Thesis	Geochronological research of the Upper Miocene to Quaternary depositional systems of the selected parts of the Pannonian Basin System
Date	24/05/2019
Qualification	Qualification degree IIa. – permit to supervise PhD. students (Slovak Academy of Sciences)
Date	01/06/2018
Qualification	Rerum naturalium doctor (**RNDr.**) in Geology (Comenius Univ. in Bratislava, Slovakia)
Thesis	Dating of the Quaternary sediments of the Danube Basin using cosmogenic nuclides
Date	29/08/2016
Qualification	Philosophiae doctor (**PhD.**) in Sedimentology (Comenius Univ. in Bratislava, Slovakia)
Thesis	Development of the northern Danube Basin during the Late Miocene and Pliocene
Date	31/05/2012
Qualification	Master (**Mgr.**) in Dynamic geology (Comenius Univ. in Bratislava, Slovakia)
Thesis	Lithofacies character of the Pliocene to Quaternary deposits of the Blatné depression
Date	30/08/2010
Qualification	Bachelor (**Bc.**) in General geology (Comenius Univ. in Bratislava, Slovakia)
Thesis	Quantitative and qualitative parameters of quaternary sediments in the area of Bratislava

4 Supervising and mentoring

Doctoral students	Kishan Aherwar (2020–2024), Rouxian Pan (2023–2027)
Bachelor students	Iveta Malíčková (2013–2015), Michal Urban (2012–2014)
Laboratory specialist training	Barbara Rózsová (2021 to present)

5 Grants and awards

Principal investigator in projects	**MSCA Postdoctoral Fellowship project "CosmoLith**" (Nr. 101110871) funded based on the Seal of Excellence (rating 85.60%) by the EIC Accelerator programme under the Horizon Europe (Nr. 10-036-T-0008); **project title: Cosmogenic nuclide dating of the continental ice sheet inception in Lithuania,** budget 158 597 Eur (two years)
	APVV-20-0120: Calibration of the authigenic $^{10}Be/^{9}Be$ dating method for geochronological models of the latest Cenozoic of the Carpathian-Pannonian region, budget 190 500 Eur, team of 24 researchers and students (2021–2025) – national research project (Slovak Research and Development Agency – most prestigious scientific grant in Slovak Republic). **I am responsible for the project goals conception, planning all activities and carrying out the research, budget management and leading publication of the project outputs.**
	PhD. student research projects focused on application of cosmogenic nuclide dating methods in the Danube Basin (budget 1000 Eur per project, 2014–2015) UK/455/2014, UK/451/2015 (Comenius University grant agency)
Team member in projects	Projects, in which I applied sedimentology, cosmogenic nuclide dating and basin research in the Central European basins, and led field research campaigns (budgets 150 000–200 000 Eur, 2011–2021): APVV-0099-11, APVV-0625-11, APVV-0315-12, APVV-14-0118, APVV-16-0121, (Slovak Research and Development Agency projects)
	Bilateral international project focused on cooperation with CEREGE institute (France) on cosmogenic nuclide dating (2015–2017): SK-FR-2015-0017 (Slovak Research and Development Agency project)
	Bilateral international projects, where I worked on development of robust cross-boundary basin models with Hungarian and Austrian colleagues: SK-HU-2013-0020 (2013–2015), SK-AT-2017-0010 (2017–2019) (Slovak Research and Development Agency projects)
	Projects, where I performed cosmogenic nuclide dating of cave sediments and of tectonic evolution of intermontane basins: 1/0602/16 (2016–2019), 1/0346/20 (2020–2023) (projects of the Scientific Grant Agency of the Ministry of Education, Science, Research and Sport of the Slovak Republic and of the Slovak Academy of Sciences)
Scientific awards and invited lectures	Finalist of the ESET Science Award 2023, category Outstanding scientist in Slovakia under the age of 35
	Best publication of a young scientist, period 2018-2021 (awarded by the Slovak Geological Society)
	Best education publication, period 2018-2021 (awarded by the Slovak Geological Society)
	Invited workshop on the cosmogenic nuclide dating methods at the 36th IAS International Meeting of Sedimentology (12th June 2023, Dubrovnik, Croatia)
	Invited lecture on the authigenic $^{10}Be/^{9}Be$ dating method (Congress of the Carpathian-Balkan Geological Association 2018, Salzburg, Austria)
Student awards	The Dean Prize for exceptional scientific result published by a PhD. student (2016, Faculty of Natural Sciences, Comenius University)
	Best student presentation (Meeting of the Central European Tectonic studies Groups 2016, Slovakia)
	Best student presentation (Environmental, Structural and Stratigraphical Evolution of the Western Carpathians 2014, Slovakia)

6 Professional activity

Associate editor in journals	Geologica Carpathica (most prestigious Central European geological journal) Acta Geologica Slovaca (faculty journal at the Comenius University)
Journal reviewer	Science, Global and Planetary Change, Sedimentary Geology, Marine and Petroleum Geology, CATENA, Geol. Soc. London Special Publication, Geologica Carpathica, International Journal of Earth Sciences, Austrian Journal of Earth Sciences, Bulletin of Geosciences, Geological Quarterly, Acta Geologica Polonica

Scientific board mb.	Earth Science Institute (Slovak Academy of Sciences)
Study programme council member	Geology, doctoral study – Masaryk University, Faculty of Natural Sciences (Brno, Czech Republic)
Professional associations	International Association of Sedimentologists (regional correspondent) National Geological Committee of Slovakia (member) European Geoscience Union (member)
Responsible conference organizer	Environmental, Structural and Stratigraphical Evolution of the Western Carpathians (ESSEWECA), volumes 2016 (68 participants) and 2018 (84 participants): the event is a Central European international geological conference
Selected presentations on international conferences	Cosmo2022 (Edinburgh, UK); European Geoscience Union General Assembly 2021 (Vienna, Austria); IAS International Meeting of Sedimentology (2021 – Prague, Czech Republic; 2019 – Rome, Italy; 2017 – Toulouse, France); 20th International Sedimentological Congress 2018 (Quebec City, Canada); American Association of Petroleum Geologists Regional Conference 2019 (Vienna); International Workshop "Neogene of Central and South-Eastern Europe" (2019 - Chęciny, Poland; 2017 – Velika, Croatia; 2015 – Orfű, Hungary)

7 Selected science popularization activities

General media	Slovak *SME* newspaper – interview on the evolution of Lake Pannon (29/1/2022, ca. 20 000 printed copies sold, ca. 100 000 readers online)
	Slovak weekly magazine *Plus 7 dní* – an article about earthquakes disrupting eolian dunes in the Vienna Basin during the last glacial (19/3/2022, ca. 90 000 printed copies sold, ca. 80 000 readers online)
	Slovak weekly magazine *Téma* – an interview focused on the Neogene and Quaternary evolution of Slovakia (14/4/2022, ca. 15 000 printed copies sold)
Online media	Slovak online magazine *Živé, Aktuality* – an article about the frozen eolian dunes of the Vienna Basin during the last glacial (12/3/2022, ca. 10 000 readers online)
	Slovak online magazine *Živé, Aktuality* – an article polemizing with the existence of the Neogene Paratethys Megalake in Slovakia (14/6/2021, ca. 10 000 readers online)
Science popularization media	An article about flooding of the area of Bratislava by Lake Pannon in the Slovak monthly science and technology magazine *Quark* (17/2/2022, ca. 3 000 copies sold)

8 Personal skills

Competences	Professional competence to work with highly toxic substances (Nr. ODD/5368/2017)
Technical skills	Facies analysis of outcrops and well-cores
	Spatial analysis of sedimentological data
	Well-logs and reflection seismics interpretation
	Sampling strategies and sample processing for dating using cosmogenic nuclides: authigenic $^{10}Be/^{9}Be$ (clay), *in situ* produced ^{10}Be, ^{26}Al (quartz) and ^{36}Cl (carbonate)
	Processing of the dating results and age calculations
Software skills	Experienced user: QGIS, CorelDraw, MS Office; Basic user: Petrel

9 Internships

Period and name of the institution	01–31/06/2013; 01–28/02/2015; 01–30/10/2015; 01/05/2016–15/06/2016 Laboratoire National des Nucléides Cosmogéniques, CEREGE, Aix-en-Provence, France
Focus and acquired skills	Laboratory preparation of samples for the authigenic $^{10}Be/^{9}Be$ dating; Laboratory preparation of samples for dating using *in situ* produced cosmogenic nuclides ^{10}Be, ^{26}Al and ^{36}Cl; Calculations and interpretation of the dating results

List of publications

Šujan, M., Aherwar, K., Vojtko, R., Braucher, R., Šarinová, K., Chyba, A., Hók, J., Grizelj, A., Pipík, R., Lalinská-Voleková, B., Rózsová, B., AsterTeam, **2024**. Stratigraphic, sedimentological, geochemical, mineralogical and geochronological data characterizing the Upper Miocene sequence of the Turiec Basin, Western Carpathians (Central Europe). *Data in Brief*, 109810.

Šujan, M., Aherwar, K., Chyba, A., Rózsová, B., Braucher, R., Šujan, M., Šipka, F., AsterTeam, **2023**. Surviving from transgression to regression of Lake Pannon: Fan deltas of the Nemčiňany Fm. persisted across the rifting until the post-rift stage of the Danube Basin, western Slovakia. *Geologica Carpathica* 74, 6, 469-488.

Šujan, M., Aherwar, K., Vojtko, R., Braucher, R., Šarinová, K., Chyba, A., Hók, J., Grizelj, A., Pipík, R., Lalinská-Voleková, B., Rózsová, B., AsterTeam, **2023**. Application of the authigenic $^{10}Be/^{9}Be$ dating to constrain the age of a long-lived lake and its regression in an isolated intermontane basin: The case of Late Miocene Lake Turiec, Western Carpathians. *Palaeogeography, Palaeoclimatology, Palaeoecology* 628, 111746.

Šujan, M., Braucher, R., Chyba, A., Vlačiky, M., Aherwar, K., Rózsová, B., Fordinál, K., Maglay, J., Nagy, A., Moravcová, M. and AsterTeam, **2023**. Mud redeposition during river incision as a factor affecting authigenic $^{10}Be/^{9}Be$ dating: Early Pleistocene large mammal fossil-bearing site Nová Vieska, eastern Danube Basin. *Journal of Quaternary Science*, 38, 3, 347-364.

Šujan, M., Rybár, S., Thamó-Bozsó, E., Klučiar, T., Tibenský, M., Sebe, K. **2022**. Collapse wedges in periglacial eolian sands evidence Late Pleistocene paleoseismic activity of the Vienna Basin Transfer Fault (western Slovakia). Sedimentary Geology 431, Art. No. 106103.

Pelech, O., Michalík, J., Aubrecht, R., Hudackova, N., Kohút, M., Kováčová, M., Levická, J., Lintnerová, O., Maglay, J., Moravcová, M., Ondrejka, M., Potfaj, M., Reháková, D., Sabol, M., Schlogl, J., Sliva, Ľ., Soták, J., Šarinová, K., **Šujan, M.,** Vozárová, A., **2021**: Slovenská verzia medzinárodnej chronostratigrafickej tabuľky / Slovak version of the International chronostratigraphic chart. Mineralia Slovaca 53, 103-114.

Šujan M., Fordinál K., Šarinová K., Rybár S. & Pelech O., **2021**: Upper Miocene colluvial and alluvial fan deposits of the Modrová Mb.: A window to palaeogeography of the Považský Inovec Mts. (Western Carpathians). *Acta Geologica Slovaca*, 13, 1, 27–47.

Šujan, M., Braucher, R., Mandic, O., Fordinál, K., Brixová, B., Kyška Pipík, R., Šimo, V., Jamrich, M., Rybár, S., Klučiar, T., Aster Team, Ruman, A., Zvara, I. and Kováč, M., **2021**: Lake Pannon transgression on the westernmost tip of the Carpathians constrained by biostratigraphy and authigenic $^{10}Be/^{9}Be$ dating (Central Europe). *Rivista Italiana di Paleontologia e Stratigrafia*, 127(3): 627-653.

Šujan, M., 2021: Sedimentológia klastík: procesy ukladania a analýza fácií. Bratislava, Univerzita Komenského v Bratislave, 208 s., ISBN: 978-80-223-5099-0.

Šujan, M., Rybár, S., Kováč, M., Bielik, M., Majcin, D., Minár, J., Plašienka, D., Nováková, P., Kotulová, J., **2021:** The polyphase rifting and inversion of the Danube Basin revised. *Global and Planetary Change* 196, 103375.

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Ruman, A., Ćorić, S., Halásová, E., Harzhauser, M., Hudáčková, N., Jamrich, M., Palzer-Khomenko, M., Kranner, M., Mandic, O., Rybár, S., Šimo, V., **Šujan, M.** and Kováč, M. **2021**: The "*Rzehakia* beds" on the northern shelf of the Pannonian Basin: biostratigraphic and palaeoenvironmental implications. *Facies*, 67, 1, https://doi.org/10.1007/s10347-020-00609-6

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Nováková, P., Rybár, S., Šarinová, K., Nagy, A., Hudáčková, N., Jamrich, M., Teodoridis, V., Kováčová, M., **Šujan, M.**, Vlček, T. and Kováč, M. **2020**: The late Badenian-Sarmatian (Serravallian) environmental transition calibrated by sequence stratigraphy (Eastern Danube Basin, Central Paratethys). *Geologica Carpathica*, 71, 4, 291 – 313.

Vlček, T., Šarinová, K., Rybár, S., Hudáčková, N., Jamrich, M., Halásová, E., **Šujan, M.**, Franců, J., Nováková, P., Sliva, Ľ., Kováč, M. and Kováčová, M. **2020**: Paleoenvironmental evolution of Central Paratethys Sea and Lake Pannon during the Cenozoic. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 559, 109892.

Šujan, M., Braucher, R., Tibenský, M., Fordinál, K., Rybár, S., Kováč, M., AsterTeam, **2020**. Effects of spatially variable accommodation rate on channel belt distribution in an alluvial sequence: Authigenic $^{10}Be/^{9}Be$-based Bayesian age-depth models applied to the upper Miocene Volkovce Fm. (northern Pannonian Basin System, Slovakia). *Sedimentary Geology*, 397, 105566.

Joniak, P., **Šujan, M.**, Fordinál, K., Braucher, R., Rybár, S., Kováčová, M., Kováč, M., AsterTeam, **2020.** The age and paleoenvironment of a late Miocene floodplain alongside Lake Pannon: Rodent and mollusk biostratigraphy coupled with authigenic $^{10}Be/^{9}Be$ dating in the northern Danube Basin of Slovakia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 538, 109482.

Joniak, P., **Šujan, M.**, **2020**. Systematic and morphometric data of late Miocene rodent assemblage from Triblavina (Danube Basin, Slovakia). *Data in Brief*, 28, 104961.

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Magyar, I., Sztanó, O., Sebe, K., Katona, L., Csoma, V.,Görög, Á., Tóth, E., Szuromi-Korecz, A., **Šujan, M.**, Braucher, R., Ruszkiczay-Rüdiger, Z., Koroknai, K., Wórum, G., Sant, K., Kelder, N., Krijgsman, W. **2019**. Towards a high-resolution chronostratigraphy and geochronology for the Pannonian Stage: Significance of the Paks cores (Central Pannonian Basin). *Foldtani Kozlony* 149, 4, 351-370.

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Šujan M., Braucher R. & ASTER Team, **2018**: A test of reproducibility of authigenic beryllium extraction from clay sediment in the facility of the Dept. of Geology and Palaeontology, Comenius University in Bratislava (Slovakia). Acta Geologica Slovaca, 10, 2, 165–169.

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Hók J., Littva J., Šujan M., Šamajová L., **Šujan M.** & Šipka F., **2018**: Geological structure of the Dobrá Voda seismoactive area (western Slovakia). Acta Geologica Slovaca, 10, 2, 143–150.

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Šujan, M., Braucher, R., Rybár, S., Maglay, J., Nagy, A., Fordinál, K., Šarinová, K., Sýkora, M., Józsa, Š., ASTER Team & Kováč, M., **2018**: Revealing the late Pliocene to Middle Pleistocene alluvial archive in the confluence of the Western Carpathian and Eastern Alpine rivers: 26Al/10Be burial dating from the Danube Basin (Slovakia). *Sedimentary Geology* 377, 131-146.

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