

Name of teacher:	Josip Peranić
Employed at: Since:	University of Rijeka, Faculty of Civil Engineering 03/2013
Scientific / teaching title: Last election date: Scientific area and branch:	Assistant Professor 27 October 2022 Technical sciences – Civil Engineering – Geotechnical Engineering
e-mail address, web page	josip.peranic@gradri.uniri.hr , https://portal.uniri.hr/portfelj/2077
Knowledge of foreign languages:	English
Qualifications	Josip Peranić was born on 5 October 1987 in Rijeka, Croatia. He graduated from the University of Rijeka, Faculty of Civil Engineering, in 2011. In 2013, he was employed at the University of Rijeka, Faculty of Civil Engineering, as a teaching assistant in the Department of Hydrotechnics and Geotechnical Engineering, Chair of Geotechnical Engineering. In February 2019, he obtained his PhD in technical sciences, field of civil engineering, branch of geotechnics, by defending his dissertation entitled <i>Importance of Geotechnical Cross-Section Unsaturated Zone for Landslide Occurrence in Flysch Deposits</i>, under the supervision of Prof. Željko Arbanas. From March 2019 to October 2022, he worked at the same institution as a postdoctoral researcher and is currently employed as an assistant professor.
List of papers published in scientific journals	➤ Crescenzo, L., Peranić, J., Arbanas, Ž., & Calvello, M. (2024). An approach to calibrate the unsaturated hydraulic properties of a soil through numerical modelling of a small-scale slope model exposed to rainfall. <i>Acta Geotechnica</i>. https://doi.org/10.1007/s11440-023-02170-2 ➤ Peranić, J., Vivoda Prodan, M., Škuflić, R., & Arbanas, Ž. (2024). Preliminary Experiences in Determining the Soil–Water Characteristic Curve of a Sandy Soil Using Physical Slope Modeling. <i>Water</i>, 16(13), 1859. https://doi.org/10.3390/w16131859 ➤ Vivoda Prodan, M., Peranić, J., Pajalić, S., & Arbanas, Ž. (2023). Physical Modelling of Rainfall-Induced Sandy and Clay-Like Slope Failures. <i>Advances in Materials Science and Engineering</i>, 2023, 1–12. https://doi.org/10.1155/2023/3234542 ➤ Peranić, J., & Arbanas, Ž. (2022). The influence of the rainfall data temporal resolution on the results of numerical modelling of landslide reactivation in flysch slope. <i>Landslides</i>, 19(12), 2809–2822. https://doi.org/10.1007/s10346-022-01937-0 ➤ Peranić, J., Čeh, N., & Arbanas, Ž. (2022). The Use of Soil Moisture and Pore-Water Pressure Sensors for the Interpretation of Landslide Behavior in Small-Scale Physical Models. <i>Sensors</i>, 22(19), 7337. https://doi.org/10.3390/s22197337 ➤ Bezak, N., Peranić, J., Mikoš, M., & Arbanas, Ž. (2022). Evaluation of Hydrological Rainfall Loss Methods Using Small-Scale Physical Landslide Model. <i>Water</i>, 14(17), 2726. https://doi.org/10.3390/w14172726 ➤ Peranić, J., Mihalić Arbanas, S., & Arbanas, Ž. (2021). Importance of the unsaturated zone in landslide reactivation on flysch slopes: observations from Valiči Landslide, Croatia. <i>Landslides</i>, 18(12), 3737–3751. https://doi.org/10.1007/s10346-021-01757-8 ➤ Pajalić, S., Peranić, J., Maksimović, S., Čeh, N., Jagodnik, V., & Arbanas, Ž. (2021). Monitoring and data analysis in small-scale landslide physical model. <i>Applied Sciences (Switzerland)</i>. https://doi.org/10.3390/app11115040 ➤ Peranić, J., Moscariello, M., Cuomo, S., & Arbanas, Ž. (2020). Hydro-mechanical properties of unsaturated residual soil from a flysch rock mass. <i>Engineering Geology</i>, 269, 105546. https://doi.org/10.1016/j.enggeo.2020.105546 ➤ Peranić, J., & Arbanas, Ž. (2020). Impact of the wetting process on the hydro-mechanical behavior of unsaturated residual soil from flysch rock mass: preliminary results. <i>Bulletin of Engineering Geology and the Environment</i>, 79(2), 985–998. https://doi.org/10.1007/s10064-019-01604-0 ➤ Peranić, J., Arbanas, Ž., Cuomo, S., & Maček, M. (2018). Soil-Water Characteristic Curve of Residual Soil from a Flysch Rock Mass. <i>Geofluids</i>, 2018, 1–15. https://doi.org/10.1155/2018/6297819

	➤ Dugonjić Jovančević, S., Peranić, J., Ružić, I., & Arbanas, Ž. (2016). Analysis of a historical landslide in the Rječina River Valley, Croatia. <i>Geoenvironmental Disasters</i>, 3(1). https://doi.org/10.1186/s40677-016-0061-x
List of publications which serve as a proof of teaching qualifications	➤ Crescenzo, L., Peranić, J., Arbanas, Ž., & Calvello, M. (2024). An approach to calibrate the unsaturated hydraulic properties of a soil through numerical modelling of a small-scale slope model exposed to rainfall. <i>Acta Geotechnica</i>. https://doi.org/10.1007/s11440-023-02170-2 ➤ Peranić, J., Vivoda Prodan, M., Škuflić, R., & Arbanas, Ž. (2024). Preliminary Experiences in Determining the Soil–Water Characteristic Curve of a Sandy Soil Using Physical Slope Modeling. <i>Water</i>, 16(13), 1859. https://doi.org/10.3390/w16131859 ➤ Vivoda Prodan, M., Peranić, J., Pajalić, S., & Arbanas, Ž. (2023). Physical Modelling of Rainfall-Induced Sandy and Clay-Like Slope Failures. <i>Advances in Materials Science and Engineering</i>, 2023, 1–12. https://doi.org/10.1155/2023/3234542 ➤ Peranić, J., & Arbanas, Ž. (2022). The influence of the rainfall data temporal resolution on the results of numerical modelling of landslide reactivation in flysch slope. <i>Landslides</i>, 19(12), 2809–2822. https://doi.org/10.1007/s10346-022-01937-0 ➤ Peranić, J., Čeh, N., & Arbanas, Ž. (2022). The Use of Soil Moisture and Pore-Water Pressure Sensors for the Interpretation of Landslide Behavior in Small-Scale Physical Models. <i>Sensors</i>, 22(19), 7337. https://doi.org/10.3390/s22197337 ➤ Peranić, J., Mihalić Arbanas, S., & Arbanas, Ž. (2021). Importance of the unsaturated zone in landslide reactivation on flysch slopes: observations from Valići Landslide, Croatia. <i>Landslides</i>, 18(12), 3737–3751. https://doi.org/10.1007/s10346-021-01757-8 ➤ Pajalić, S., Peranić, J., Maksimović, S., Čeh, N., Jagodnik, V., & Arbanas, Ž. (2021). Monitoring and data analysis in small-scale landslide physical model. <i>Applied Sciences (Switzerland)</i>. https://doi.org/10.3390/app11115040 ➤ Peranić, J., Moscariello, M., Cuomo, S., & Arbanas, Ž. (2020). Hydro-mechanical properties of unsaturated residual soil from a flysch rock mass. <i>Engineering Geology</i>, 269, 105546. https://doi.org/10.1016/j.enggeo.2020.105546 ➤ Peranić, J., & Arbanas, Ž. (2020). Impact of the wetting process on the hydro-mechanical behavior of unsaturated residual soil from flysch rock mass: preliminary results. <i>Bulletin of Engineering Geology and the Environment</i>, 79(2), 985–998. https://doi.org/10.1007/s10064-019-01604-0 ➤ Peranić, J., Arbanas, Ž., Cuomo, S., & Maček, M. (2018). Soil-Water Characteristic Curve of Residual Soil from a Flysch Rock Mass. <i>Geofluids</i>, 2018, 1–15. https://doi.org/10.1155/2018/6297819
Leader of the following research projects	➤ IPL-256: IPL (International Programme on Landslides) research project under auspices of the International Consortium on Landslides <i>Investigation of landslide initiation caused by rainfall infiltration using small-scale physical and numerical modelling (ILIRIM)</i> (2022-2026); ➤ uniri-iskusni-tehnic-23-240: <i>Hydraulic characterisation of soil by physical and numerical slope models (HCPNM)</i>; Projects of experienced researchers funded by the University of Rijeka, 2024-2025; ➤ uniri-mladi-tehnic-22-62: <i>Investigation of rainfall-induced landslides using physical and numerical models</i>; Projects of young researchers funded by the University of Rijeka; 2023-2024.
Participant in the following research projects	➤ Project <i>improving landslide risk prevention and management in coastal areas (RESONANCE)</i>, INTERREG VI-A Italy-Croatia CBC 2021-2027 (2024-2026). ➤ Research project <i>Physical modelling of landslide remediation constructions behaviour under static and seismic actions (ModLandRemSS)</i>, founded by Croatian Science Foundation under the Project IP-2018-01-1503 (2018-2022). ➤ IPL-219: International IPL (International Programme on Landslides) research project under auspices of the International Consortium on Landslides <i>Rockfall Hazard Identification and Rockfall Protection in The Coastal Zone of Croatia</i> (2017-2021). ➤ <i>Analysis of the rock mass and instability phenomena along the karst-flysch contacts</i>, supported by the University of Rijeka (2018-2019). ➤ Bilateral Slovenian-Croatian research project titled <i>Laboratory investigations and numerical modelling of landslides in flysch deposits in Croatia and Slovenia</i> (2016-2017).

	➤ Project <i>Development of the landslide monitoring and early warning system for the landslide hazard mitigation purposes</i>, supported by the University of Rijeka (2013-2017). ➤ Bilateral Croatian-Slovenian research project titled <i>SoLiFlyD: Study of landslides in flysch deposits: sliding mechanisms and geotechnical properties for landslide modeling and landslide mitigation</i> (2014-2015). ➤ Bilateral Croatian-Japanese research project <i>Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia</i> (2009-2014).
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Supervision of PhD theses	0 (currently supervising 2 PhD theses that are in the final stage of writing).
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Examination of PhD theses	3
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