Name of teacher:	Vanja Travaš

Employed at: Since:	University of Rijeka, Faculty of Civil Engineering 1.10.2005.

Academic rank: Since: In:	Full professor 21.12.2021. Technical Sciences, Civil Engineering, Hydrotechnics

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Knowledge of foreign languages:	English, Italian

Qualifications	- birth, citizenship: 11.12.1977, Croatian - faculty: Faculty of Civil Engineering in Rijeka, 2004 - doctorate: Faculty of Civil Engineering in Rijeka, 2009 - information on previous employment: Fluming d.o.o., Rijeka

List of papers published in scientific journals	He has published more than 30 scientific papers, the most recent of which are: • V. Travaš, E. Gal, I. Lučin i E. Žic (2025): Digital twin for a real-time leakage detection and localization in pressurized piping systems, Journal of Hydroinformatics, doi: 10.2166/hydro.2025.304. • V. Travaš, L. Zaharija, D. Stipanić i S. Družeta (2023): Estimation of hydraulic conductivity functions in karst regions by particle swarm optimization with application to Lake Vrana, Croatia, Hydrology and Earth System Sciences , Vol. 27, No. 6, pp. 1343-1359. • L. Grbčić, S. Družeta, G. Mauša, T. Lipić, D. Vukić Lušić, M. Alvir, I. Lučin, A. Sikirica, D. Davidović, V. Travaš, D. Kalafatovic, K. Pikelj, H. Fajković, T. Holjević, L. Kranjčević (2022): Coastal water quality prediction based on machine learning with feature interpretation and spatio-temporal analysis, Environmental Modelling & Software, Vol. 155, pp. 105458.

List of publications which serve as a proof of teaching qualifications	• Teaching materials for the course Computational Hydraulics • Teaching materials for the course Experimental Hydraulics • Teaching materials for the course Hydrotechnical Measures for Climate Change Adaptation • Several software algorithms developed for computer simulation of fluid flow including numerical integration of the Navier-Stokes equations

Participant in the following research projects	• Risk identification and land-use planning for disaster mitigation of landslides and floods in Croatia (CROSBI ID 564916) • Computational fluid flow, flooding, and pollution propagation modeling in rivers and coastal marine waters (KK.05.1.1.02.0017) • Improvement of assessment methodology for modern optimization algorithms and their open development in Python (uniri-iskusni-tehnic-23-52) • Hybrid 2D/3D model development for efficient flow modeling in rivers, lakes and seas (uniri-tehnic-18-195)

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