

Name of teacher:	Vedran Jagodnik
Employed at: Since:	Faculty of Civil Engineering, University of Rijeka 02.06.2016.
Title: Since: In:	Assistant professor 02.06.2016. Geotechnics, Civil engineering, Technical science
e-mail address, web page	vedran.jagonik@uniri.hr , www.gradri.uniri.hr
Knowledge of foreign languages:	english

Qualifications	- date of birth, nationality: 28.08.1983., croatian - First degree obtained at: Faculty of Civil Engineering, University of Rijeka, 2007. - Master degree obtained at: - Ph.D. degree obtained at: Faculty of Civil Engineering, University of Rijeka, 2014. „behaviour of laterally loaded piles in sandy gravels“ - additional education: - previous employments:
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List of papers published in scientific journals	Jagodnik V, Kraus I, Ivanda S, Arbanas Ž. Behaviour of Uniform Drava River Sand in Drained Condition—A Critical State Approach. <i>Applied Sciences [Internet]</i> 2020;10:5733. Available from: http://dx.doi.org/10.3390/app10175733 Jagodnik P, Jagodnik V, Arbanas Ž, Mihalić Arbanas S. Landslide types in the Slani Potok gully, Croatia. <i>Geologia Croatica [Internet]</i>. 2020 [pristupljeno 04.10.2020.];73(1):13-28. https://doi.org/10.4154/gc.2020.04 Jagodnik, V., Arbanas, Ž. - Testing of laterally loaded piles in natural sandy gravels. <i>International Journal of Physical Modelling in Geotechnics</i> 15 (4), 191-208. 2015. Jagodnik, V., Jelenić, G., Arbanas, Ž. - On application of mixed finite-element approach to beam–soil interaction. <i>Acta Geotechnica Slovenica</i> 10 (2), 15-27. 2013.
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List of publications which serve as a proof of teaching qualifications	Jagodnik V, Kraus I, Ivanda S, Arbanas Ž. Behaviour of Uniform Drava River Sand in Drained Condition—A Critical State Approach. <i>Applied Sciences [Internet]</i> 2020;10:5733. Available from: http://dx.doi.org/10.3390/app10175733 Jagodnik P, Jagodnik V, Arbanas Ž, Mihalić Arbanas S. Landslide types in the Slani Potok gully, Croatia. <i>Geologia Croatica [Internet]</i>. 2020 [pristupljeno 04.10.2020.];73(1):13-28. https://doi.org/10.4154/gc.2020.04 Peranić J, Jagodnik V, Arbanas Ž. Rainfall infiltration and stability analysis of an unsaturated slope in residual soil from flysch rock mass. <i>Proceedings of the XVII ECSMGE-2019 “Geotechnical Engineering Foundation of the Future”, Reykjavik, Iceland</i>. 2019 Sep:1-6. Arbanas, Ž., Pajalić, S., Jagodnik, V., Peranić, J., Vivoda Prodan, M., Đomlija, P., Dugonjić Jovančević, S. & Čeh, N. (2019) Development of physical model of landslide remedial constructions' behaviour. U: Uljarević, M., Zekan, S., Salković, S. & Ibrahimović, D. (ur.) <i>Proceedings of the 4th Regional Symposium on Landslides in the Adriatic-Balkan Region</i> doi:10.35123/resylab_2019_17. Jagodnik, V., Đomlija, P., Vorić, L. & Arbanas, Ž. (2019) Cyclic stress ratio of landslide deposits in Vinodol Valley, Croatia. U: Uljarević, M., Zekan, S., Salković, S. & Ibrahimović, D. (ur.) <i>Proceedings of the 4th Regional Symposium on Landslides in the Adriatic-Balkan Region</i> doi:10.35123/resylab_2019_13. Đomlija, P., Prša, M., Jagodnik, V. & Arbanas, Ž. (2019) Preliminary testing of clay activity from landslide deposits in Dubračina River Basin, Croatia. U: Uljarević, M., Zekan, S., Salković, S. & Ibrahimović, D. (ur.) <i>Proceedings of the 4th Regional Symposium on Landslides in the Adriatic-Balkan Region</i> doi:10.35123/resylab_2019_20. Đomlija, P., Jagodnik, V., Arbanas, Ž. & Mihalić Arbanas, S. (2019) Landslide types identified along carbonate cliffs using LiDAR-based DTM imagery – examples from the Vinodol Valley, Croatia. U: Uljarević, M., Zekan, S., Salković, S. & Ibrahimović, D. (ur.) <i>Proceedings of the 4th Regional Symposium on Landslides in the Adriatic-Balkan Region</i> doi:10.35123/resylab_2019_15.
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Mihalić Arbanas, S., Bernat Gazibara, S., Sečanj, M., Damjanović, V., Oršanić, D., Penović, S., Krkač, M., Cindrić Kalin, K., Đomlija, P., Jagodnik, V. & Arbanas, Ž. (2019) Landslide risk management in Croatia: Current state. U: Uljarević, M., Zekan, S., Salković, S. & Ibrahimović, D. (ur.) *Proceedings of the 4th Regional Symposium on Landslides in the Adriatic-Balkan Region*.

Jagodnik, V., Đomlija, P., Oštrić, K. & Arbanas, Ž. (2019) Strength reduction curve of soils from eluvial deposits in Vinodol Valley, Croatia. U: Uljarević, M., Zekan, S., Salković, S. & Ibrahimović, D. (ur.) *Proceedings of the 4th Regional Symposium on Landslides in the Adriatic-Balkan Region* doi:10.35123/resylab_2019_18.

Jagodnik, V. (2019) Primjena metode materijalne točke u inženjerstvu. U: *Zbornik radova 9. susreta Hrvatskog društva za mehaniku*.

Arbanas Ž., Mihalić Arbanas S., Vivoda Prodan M., Peranić J., Dugonjić Jovančević S., Jagodnik V. (2018) TXT-tool 2.385-1.2: Landslide Comprehensive Monitoring System: The Grohovo Landslide Case Study, Croatia. In: Sassa K. et al. (eds) *Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools*. Springer, Cham. https://doi.org/10.1007/978-3-319-57774-6_35

Pajalić S., Đomlija P., Jagodnik V., Arbanas Ž. (2017) Diversity of Materials in Landslide Bodies in the Vinodol Valley, Croatia. In: Mikoš M., Vilimek V., Yin Y., Sassa K. (eds) *Advancing Culture of Living with Landslides*. WLF 2017. Springer, Cham. https://doi.org/10.1007/978-3-319-53483-1_60

Mihalić Arbanas S. et al. (2017) Landslide Risk Reduction in Croatia: Scientific Research in the Framework of the WCoE 2014–2017, IPL-173, IPL-184, ICL ABN . In: Sassa K., Mikoš M., Yin Y. (eds) *Advancing Culture of Living with Landslides*. WLF 2017. Springer, Cham. https://doi.org/10.1007/978-3-319-59469-9_25

Cuculić, M., Mrakovčić, S., Jagodnik, V., Smolčić, Ž. & Travaš, V. (2016) Research potential at the Faculty of Civil Engineering in Rijeka. U: Lakušić Stjepan (ur.) *Sabor Hrvatskih Graditelja 2016 - EU i Hrvatsko Graditeljstvo*.

Jagodnik, V., Arbanas, Ž. - Testing of laterally loaded piles in natural sandy gravels. *International Journal of Physical Modelling in Geotechnics* 15 (4), 191-208. 2015.

Jagodnik, V., Jelenić, G., Arbanas, Ž. - On application of mixed finite-element approach to beam–soil interaction. *Acta Geotechnica Slovenica* 10 (2), 15-27. 2013.

Kraus, I., Mulabdić, M., Jagodnik, V. - Response spectrum shape piloted by inverted pendulums free to rock. *2nd Conference for PhD Students in Civil Engineering and Architecture*. 2014.

Jagodnik, V., Jelenić, G., Arbanas, Ž. - The mixed-type approach to finite -element analysis on geometrically linear beams resting on linear and non-linear Winkler soil models. *Numerical Methods in Geotechnical Engineering NUMGE 2014*. Hicks A., Michael; Brinkgreve B.J., Ronald; Rohe, Alexander (edt.). Delft : CRC Press, 2014. 241-24

Arbanas, Ž., Dugonjić Jovančević, S., Ljutić, K., Vivoda, M., Jagodnik, V. - Initial results of the Grohovo Landslide monitoring - 2nd Project Workshop: Monitoring and Analyses for disaster mitigation of landslides, debris flow and floods. *Book of Proceedings*. Ožanic, Nevenka ; Arbanas, Željko ; Mihalić, Snježana ; Marui, Hideaki ; Dragicević, Nevena (edt.). Rijeka : University of Rijeka, 2012. 33-36

Arbanas, Ž., Jagodnik, V., Ljutić, K., Dugonjić Jovančević, S., Vivoda, M. - Establishment of the Grohovo Landslide monitoring system - 2nd Project Workshop: Monitoring and Analyses for disaster mitigation of landslides, debris flow and floods. *Book of Proceedings*. Ožanic, Nevenka ; Arbanas, Željko ; Mihalić, Snježana ; Marui, Hideaki; Dragicević, Nevena (edt.). Rijeka, Croatia : University of Rijeka, 2012. 29-32

Arbanas, Ž., Vivoda, M., Jagodnik, V., Dugonjić Jovančević, S. Ljutić, K. - Consideration of early warning system on the Grohovo Landslide - 2nd Project Workshop: Monitoring and Analyses for disaster mitigation of landslides, debris flow and floods. *Book of Proceedings*. Ožanic, Nevenka ; Arbanas, Željko ; Mihalić, Snježana ; Marui, Hideaki ; Dragicević, Nevena (edt.). Rijeka, Croatia : University of Rijeka, 2012. 51-54.

Arbanas, Ž., Dugonjić, S., Vivoda, M., Jagodnik, V. - Landslide affected with an open pit excavation in flysch deposit. *Proceedings of the 15th European conference on soil mechanics and geotechnical engineering*, Anagnostopoulos, Andreas ; Pachakis, Michael ; Tsatsanifos, Christos (edt.). Amsterdam : IOS Press BV, 2011. 1319-1324

Arbanas, Ž., Jagodnik, V., Dugonjić S. - Analysis of foundation solution of new building in build-up area. *Numerical Methods in Geotechnical Engineering NUMGE 2010*. Benz, Thomas ; Nordal, Steinar (edt.). Trondheim : CRC Press, 2010. 601-606

Arbanas, Ž., Grošić, M., Udović, D., Jagodnik, V. - Optimization of rock mass support systems during deep excavations. *Proceedings of the regional symposium of the International Society for Rock Mechanics, Eurock 2009, Rock Engineering in Difficult Ground Conditions - Soft Rock and Karst*. Vrkljan, Ivan (edt.). Leiden: CRC PressBalkema, Taylor and Francis Group, 2009. 427-433

	Arbanas, Ž., Jagodnik, V., Grošic, M., Goršič, D. - <i>Foundation of new buildings in old urban areas. Proceedings of 2. British Geotechnical Association International Conference On Foundations, ICOF 2008 ; Dundee, Scotland, UK / Brown, Michael J. ; Bransby, Fraser ; Brennan, Andrew J. and Knappett, Johnatan A. (ur.). Garston : IHS BRE Press, 2008. 975-984</i>
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Leader of the following research projects	Laboratory research of static and cyclic behaviour at landslide activation (uniri-tehnic-18-113) - 2018
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Participant in the following research projects	Physical modelling of landslide remediation constructions behaviour under static and seismic actions (ModLandRemSS) Inicijalno-rubni problemi u istraživanju modela mikropolarnog kontinuuma (UNIRI) 2017 Laboratory testing and numerical modelling of landslides in flysch deposits in Croatia and Slovenia Study of landslides in flysch deposits: sliding mechanisms and geotechnical properties for landslide modelling and mitigation (SoLiFlyD) Razvoj sustava monitoringa klizišta i ranog upozoravanja za potrebe umanjenja hazarda od klizanja tla Study of landslides in flysch deposits of North Istria, Croatia: sliding mechanisms, geotechnical properties, landslide modelling and landslide susceptibility Risk identification and land-use planning for disaster mitigation of landslides and floods in Croatia, 2009 – 2014.
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Supervision of MSc theses	
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Supervision of PhD theses	
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Examination of MSc theses	
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Examination of PhD theses	2
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