


CURRICULUM VITAE

Personal Information



Ivan Banović

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Sex Male | Date of birth 27/06/1989 | Nationality Croatian

WORK EXPERIENCE

- 12/2022 - Present **Assistant Professor**
University of Split, Faculty of Civil Engineering, Architecture and Geodesy
 - Department of Concrete Structures and Bridges
- 11/2021 – 12/2022 **Professional Associate**
University of Split, Faculty of Civil Engineering, Architecture and Geodesy
 - Department of Concrete Structures and Bridges
- 08/2018 – 08/2021 **Research Assistant**
University of Split, Faculty of Civil Engineering, Architecture and Geodesy
 - Department of Concrete Structures and Bridges
- 05/2015 – 08/2021 **Professional Associate**
University of Split, Faculty of Civil Engineering, Architecture and Geodesy
 - Department of Concrete Structures and Bridges

EDUCATION AND TRAINING

- 2015 – 2021 **Doctor of Philosophy (Ph.D.)**
University of Split, Faculty of Civil Engineering, Architecture and Geodesy
 - Earthquake Engineering
 - Ph. D. Thesis: "Seismic base isolation using natural materials: experimental and numerical verification"
- 2008 – 2014 **Civil Engineer**
University of Split, Faculty of Civil Engineering, Architecture and Geodesy
 - Master thesis: "Construction project of part of the new Split Kaštela airport complex"

PERSONAL SKILLS

Mother tongue Croatian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills

- Microsoft Office™ tools, SCIA Engineer, AutoCAD, Robot Structural Analysis, IDEA StatiCa

Driving licence

- B

ADDITIONAL INFORMATION

Honours	<ol style="list-style-type: none"> 1. International Association for Bridge and Structural Engineering (IABSE) Best PhD Thesis Award, 2023. 2. University of Split Rector's Award, for exceptional results achieved during undergraduate and graduate studies, 2013. 3. University of Split, Faculty of Civil Engineering, Architecture and Geodesy Dean's Award, for exceptional results achieved during undergraduate and graduate studies, 2009., 2010., 2011. and 2013.
Editor	Research on Engineering Structures & Materials (<i>MIM Research Group</i>) (p-ISSN: 2148-9807; o-ISSN: 2149-4088)
Youth Editorial Board Member	Sound & Vibration (<i>Tech Science Press</i>); ISSN: 1541-0161 (Print); ISSN: 2693-1443 (Online)
Topical Advisory Panel Member	Vibration (<i>MDPI</i>); ISSN: 2571-631X)
Review Editor Board Member	Frontiers in Built Environment - Earthquake Engineering; ISSN: 2297-3362
Membership in scientific and professional associations	<p>International Association for Bridge and Structural Engineering (IABSE)</p> <p>Geotechnical Seismic Isolation – Global Network</p> <p>Croatian Standard Institute: member of TO 548/PO 10 Construction Eurocodes; EN 1990 Fundamentals of structural design</p> <p>Croatian Center for Earthquake Engineering</p>
Research Interest	Geotechnical Seismic Isolation; Structural and Earthquake Engineering, Concrete Structures; Large-Scale Experimental Testing; Numerical Modelling
Research Gate profile:	https://www.researchgate.net/profile/Ivan-Banovic
ORCID:	https://orcid.org/0000-0001-8193-5999
Scopus profile:	https://www.scopus.com/authid/detail.uri?authorid=57189358113
Web of Science profile:	https://www.webofscience.com/wos/author/record/371965
Experience in Teaching	<p><i>Undergraduate University Study of Civil Engineering: Basics of Concrete Structures, Bridges</i></p> <p><i>Undergraduate University Study of Architecture and Urban Planning: Bearing Structures I</i></p> <p><i>Undergraduate Professional Study of Civil Engineering: Concrete Structures I, Concrete Structures II, Bridges, Installation</i></p> <p><i>Graduate University Study of Civil Engineering: Concrete Structures I, Concrete Structures II, Bridges, Masonry Structures, Housing Installations, Numerical Modelling of Concrete Structures</i></p> <p><u>Supervision of Master Theses:</u></p> <ol style="list-style-type: none"> 1. Galić, M.; „ Construction Project of Reinforced Concrete Prefabricated Structure“, 2023. (co-supervisor) 2. Semren, K.; „ Calculation of the Reinforced Concrete Residential Building and Verification of the Possibility of Applying Seismic Isolation with a Layer of Stone Pebbles under the Foundations“, 2022. (co-supervisor)
Journal Article	<ol style="list-style-type: none"> 1. Banović, I.; Radnić, J.; Grgić, N.; Galić, M. „Application of Pebbles for Geotechnical Seismic Isolation (GSI): Experimental Parametric Study“, <i>Vibration</i>, vol. 7, 64-82., 2024. 2. Sunara, M.; Banović, I.; Buzov, A.; Grgić, N. „Modal and Structural Identification of Historic Bell Tower in Čuntić, Croatia Using Ambient Vibration Testing“, <i>Applied Sciences</i>, 13, 11494, 2023. 3. Banović, I.; Radnić, J.; Grgić, N. & Buzov, A.: „Performance of geotechnical seismic isolation using stone pebble - geogrid layer: Experimental investigation“, <i>Soil Dynamics and Earthquake Engineering</i>, vol. 171, 107941, p.p. 11, 2023. 4. Banović, I., Radnić, J.; Grgić, N., Semren, K.: „Effectiveness of several low-cost geotechnical seismic isolation methods: a shake-table study“, <i>Bulletin of Earthquake Engineering</i>, Vol. 21, p. p. 3923-3947, 2023. 5. Radnić, J., Grgić, N., Buzov, A., Banović, I., Smilović Zulim, M., Baloević, G.; Sunara, M.: „M_w 6.4 Petrinja earthquake in Croatia: Main earthquake parameters, impact on buildings and recommendation for their structural strengthening“, <i>Journal of the Croatian Association of Civil Engineers</i>, vol. 73 (11), p.p. 1109-1128, 2021. 6. Banović, I., Radnić, J.; Grgić, N.: „Numerical model for dynamic analysis of structures with seismic base isolation using a layer of stone pebbles“, <i>Ingegneria Sismica-International Journal of Earthquake Engineering</i>, vol. 38 (1), p.p. 37-65., 2021. 7. Radnić, J.; Matešan, D; Banović, I.: „Bridges with multiple structural systems: The example of Trilj Bridge reconstruction in Croatia“, <i>Bridge structures</i>, 17 (1-2), p.p. 65-75, 2021. 8. Banović, I.; Radnić, J.; Grgić, N.: „Foundation size effect on the efficiency of seismic base isolation using a layer of stone pebbles“, <i>Earthquakes and Structures</i>, vol. 19 (2), p.p. 103-117, 2020. 9. Banović, I.; Radnić, J.; Grgić, N.: „Effect of Structural Stiffness on the Efficiency of Seismic Base Isolation Using Layers of Stone Pebbles“, <i>Ingegneria Sismica-International Journal of Earthquake Engineering</i>, vol. 37 (2), p.p. 66-91, 2020. 10. Banović, I.; Radnić, J.; Grgić, N.: „Geotechnical Seismic Isolation System Based on Sliding Mechanism Using Stone Pebble Layer: Shake- Table Experiments“, <i>Shock and Vibration</i>, vol. 2019, Article ID 9346232, p.p. 1-26, 2019. 11. Banović, I.; Radnić, J.; Grgić, N.: „Shake Table Study on the Efficiency of Seismic Base Isolation Using Natural Stone Pebbles“, <i>Advances in Materials Science and Engineering</i>, vol. 2018, Article ID 1012527, p.p. 1-20, 2018.

	<ol style="list-style-type: none"> 12. Banović, I.; Radnić, J.; Grgić, N.; Matešan, D.: "The Use of Limestone Sand for the Seismic Base Isolation of Structures", <i>Advances in Civil Engineering</i>, vol. 2018, Article ID 9734283, 2018. 13. Grgić, N.; Radnić, J.; Matešan, D.; Banović, I.: "Stirrups effect on the behavior of concrete columns during an earthquake", <i>Materialwissenschaft und Werkstofftechnik</i>, p.p. 406-419, 2017. 14. Radnić, J.; Markić, R.; Grgić, N.; Glibić, M.; Banović, I.: "Comparison of numerical models for nonlinear static analysis of planar concrete frames based on 1D and 2D finite elements", <i>Materialwissenschaft und Werkstofftechnik</i>, p.p. 369-581, 2016. 15. Baloević, G.; Radnić, J.; Matešan, D.; Grgić, N.; Banović, I.: "Comparison of developed numerical macro and micro masonry models for static and dynamic analysis of masonry-infilled steel frames", <i>Latin American Journal of Solids and Structures</i>, p.p. 2251-2265, (13) 2016. 16. Radnić, J., Matešan, D., Banović, I., Buklijaš-Kobojević, D.: "Passenger terminal extension structure at Split Airport", <i>Journal of the Croatian Association of Civil Engineers</i>, vol. 68 (11), pp. 907-917, 2016.
Conferences	<ol style="list-style-type: none"> 1. Banović, I., Radnić, J.; Grgić, N.: "Shake-table Study on the Effectiveness of Several Low-Cost Seismic Base Isolations", 14th International Conference on Advanced Computational Engineering and Experimenting, ACE-X 2021, Valletta, Malta, 2021. 2. Banović, I.; Radnić, J.; Grgić, N.: "Effect of Structure Stiffness on Seismic Base Isolation Efficiency Using Natural Stone Pebbles", 13th International Conference on Advanced Computational Engineering and Experimenting, ACE-X 2019, Athens, Greece, 2019. 3. Baloević, G.; Radnić, J.; Matešan, D.; Banović, I.: "Behaviour of fibre reinforced cement composites under impact loading", 10th International Conference on Advanced Computational Engineering and Experimenting, ACE-X 2016, Split, Croatia, 2016. 4. Banović, I.; Radnić, J.; Grgić, N.: "Seismic base isolation using a layer of natural stone pebbles", Common Foundations 2018 - uniSTem: 6th Congress of Young Researchers in the Field of Civil Engineering and Related Sciences, Split, 2018.
Authored and Edited Books	<ol style="list-style-type: none"> 1. Harapin, A., Radnić, J., Grgić, N., Smilović Zulim, M., Sunara, M., Buzov, A., Banović, I. "Basics of Concrete Structures: in Accordance with: HRN EN 1992-1-1:2013/A1:2015", University of Split, doi: 10.31534/9789536116966 2. Common Foundations 2023 - uniSTem : the tenth meeting of young researchers in the field of civil engineering and related technical sciences, 14-17 September 2023, Split : proceedings, Editors: Banović, I., Kadić, A., Maljković, B., Sunara, M.
Research Experience on Scientific Projects	<ol style="list-style-type: none"> 1. Seismic base isolation of a building by using natural materials - shake table testing and numerical modeling (IP-06-2016-5325), 2017.-2021., Project PI: Prof. Jure Radnić, PhD., Funding source: Croatian Science Foundation (HRZZ). Participated as a PhD candidate, University of Split, Croatia. 2. Experimental verification of the possibility of using stone pebbles for seismic base isolation, 2016.-2017., Project PI: Prof. Jure Radnić, PhD., Funding source: HAMAG-BICRO - Croatian Agency for Small Business, Innovation and Investment. Participated as a PhD candidate, University of Split, Croatia.
Professional Experience, Major Projects and Responsibility	<ol style="list-style-type: none"> 1. Building "Scientific Innovation Center, University of Split" in Split, Croatia; 2022-2023; Project including main and construction design. Participated as a structural engineer associate (SEA). 2. Building "A" of the Medical Faculty in Split, Croatia; 2021-2022; Reconstruction project including main and construction design. Participated as a SEA. 3. "Bailey Bridge" in Strmica near Knin, Croatia; 2019; Reconstruction project including main design. Participated as a SEA. 4. Renovation of the "Standing House" and conversion into an information-innovation incubator in Knin, Croatia; 2018; Reconstruction project including main and construction design. Participated as a SEA. 5. Ivan Meštrović Museum in Split, Croatia; 2018; Reconstruction project. Participated as a SEA. 6. Franciscan Church of Our Lady of Mercy, Chapel of St. Cross and cloister on the Badija island, Croatia; 2018; Reconstruction project including main and construction design. Participated as a SEA. 7. Bridge over the river Butižnica in Knin, Croatia; 2017; Conceptual design. Participated as a SEA. 8. Change of the route of road 6246 with the bridge over the river Krka, Croatia; 2017; Conceptual design. Participated as a SEA. 9. Bridge over Radljevac torrent on road Knin-Radljevac, Croatia; 2016; Reconstruction project, including main and construction design. Participated as SEA. 10. Split airport: The reconstruction and extension of the passenger terminal, Croatia; 2014-2016; Project including main and construction design. Participated as a SEA. 11. Suspension bridge across the Cetina River in the city of Trilj, Croatia; 2014; Reconstruction project including main and construction design. Participated as a SEA. 12. Hotel "Jure" of hotel's resort Solaris Šibenik, Croatia; 2014; Reconstruction project, Participated as a SEA.