

Name of teacher:	Paulina Krolo
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Employed at: Since:	University of Rijeka, Faculty of Civil Engineering October 1, 2008
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Academic rank: Since: In:	Associate Professor November 1, 2023 Technical Sciences, Civil Engineering
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e-mail address, web page	paulina.krolo@gradri.uniri.hr https://portal.uniri.hr/Portfelj/891
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Knowledge of foreign languages:	English
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Qualifications	<ul style="list-style-type: none"> - date of birth, nationality: 26/11/1984, Croatian - First degree obtained at: Faculty of Civil Engineering, University of Rijeka (2008) - Ph.D. degree obtained at: Faculty of Civil Engineering, University of Rijeka (2017) - additional education: 2025 Erasmus+ staff mobility, Federal Institute for Materials Research and Testing (BAM), Berlin, Germany 2024 Online workshop within the lifelong learning program "Information Tools for Researchers", University Library Rijeka Webinar "Using Tools for Detecting AI-Generated Text in Turnitin Software", SRCE, University of Zagreb, University Computing Centre Online workshop "Get Educated on AI – Opportunities and Ethical Use of Artificial Intelligence", CroAI, Croatian Association for Artificial Intelligence 2023 Professional licensing exam for spatial planning and construction, Zagreb Professional seminar "Intellectual Property at Universities", STEPRI 2022 Workshop "Assertive Communication in the Workplace", Faculty of Civil Engineering, University of Rijeka, University Counseling Center 2021 Workshop "First Steps in Participating in EU Programs – Funding & Tenders Portal", Center for EU Projects, University of Rijeka Abaqus training (6 days), Faculty of Civil Engineering, Rijeka 2020 Webinar "Course Design – Online Exams and Assessments", UNIRI/FOI, Faculty of Civil Engineering in Rijeka Workshop "Fear of Public Speaking Among Students", part of the Career Development 2020 series, Faculty of Civil Engineering, Rijeka Workshop on the Bura supercomputer, Faculty of Civil Engineering, Rijeka 2018 Lifelong learning program "Teaching and Learning in Higher Education – Teaching Competencies in Higher Education: Learning and Teaching, Course Planning and Design", Faculty of Humanities and Social Sciences, University of Rijeka 2017 Professional seminar "4th Croatian Construction Forum", Faculty of Civil Engineering, University of Zagreb 2016
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	<p>Workshop "Development and Improvement of Pedagogical Competencies – Student-Centered Teaching", Faculty of Civil Engineering, University of Rijeka</p> <p>Workshop "Using Interactive Whiteboards in Teaching", CARNET, Croatian Academic and Research Network</p> <p>2014</p> <p>Advanced training on the N2 method for seismic analysis of building structures, Faculty of Civil and Geodetic Engineering, University of Ljubljana (mentor: prof. Peter Fajfar)</p> <p>2009</p> <p>Workshop "Design of Steel Structures According to EC3", Faculty of Civil Engineering, University of Zagreb</p> <p>- previous employments:</p> <p>12/2022 – Present</p> <p>Assistant Dean for Laboratory Affairs, Faculty of Civil Engineering, University of Rijeka</p> <p>10/2018 – 11/2023</p> <p>Assistant Professor, Faculty of Civil Engineering, University of Rijeka</p> <p>10/2017 – Present</p> <p>Head of Structures Laboratory, Faculty of Civil Engineering, University of Rijeka</p> <p>04/2017 – 10/2018</p> <p>Postdoctoral Researcher, Faculty of Civil Engineering, University of Rijeka</p> <p>10/2008 – 03/2017</p> <p>Teaching Assistant, Faculty of Civil Engineering, University of Rijeka</p> <p>06/2008 – 09/2008</p> <p>Structural Design Engineer, Ratio Projectum d.o.o., Slavonski Brod</p>
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<p>List of papers published in scientific journals</p>	<ol style="list-style-type: none"> 1. Varga, Ivana; Markulj Kulundžić, Antonela; Krolo, Paulina; Iljkić, Dario; Tišma, Marina; Kraus, Ivan Industrial Hemp Finola Variety Photosynthetic, Morphometric, Biomechanical, and Yield Responses to K Fertilization Across Different Growth Stages // Agronomy, 15 (2025), 2; 496-496. https://doi.org/10.3390/agronomy15020496 2. Varga, Ivana; Iljkić, Dario; Krolo, Paulina; Perić Fekete, Ana; Kraus, Ivan The Source of K Fertilizer for Industrial Hemp (Cannabis sativa L.): Mechanical and Chemical Properties of Stem for Rammed Earth Walls // Agriculture, 14 (2024), 12; 2196-2196. https://10.3390/agriculture14122196 3. Palijan, Ivan; Krolo, Paulina; Štimac Grandić, Ivana; Grandić, Davor Testing of the structural composite panels to determine the design resistance models // Machines, Technologies, Materials, 18 (2024), 5; 148-152 4. Palijan, Ivan; Grandić, Davor; Štimac Grandić, Ivana; Krolo, Paulina; Lukačević, Lazar; Bakran, Antonio Testing of Innovative Composite Wall/Ceiling Panel // International Scientific Journal Industry 4.0, VIII (2023), 5; 155-158 5. Lukačević, Lazar; Krolo, Paulina; Bakran, Antonio; Palijan, Ivan Performance of Novel U-Connector in CFS Truss-to-Column Bolted Connection under Axial Force // Buildings, 13 (2023), 7; 1623, 24. https://10.3390/buildings13071623 6. Bakran, Antonio; Krolo, Paulina; Lukačević, Lazar; Palijan, Ivan Experimental Investigation of the CFS-PU Composite Wall Panel under Axial Compression // Buildings, 13 (2023), 8; 1897, 20. https://10.3390/buildings13081897 7. Krolo, Paulina Application of hysteresis envelope model to steel beam-to-column bolted joint // Sučasni budivel'ni konstrukcii z metalu ta derevini, 2022. str. 55-62. https://10.31650/2707-3068-2022-26-55-62 8. Lukačević, Lazar; Krolo, Paulina; Bakran, Antonio Experimental Investigation of Novel Angle Bracket Connection in Cold-Formed Steel Structures // Buildings, 12 (2022), 8; 1115, 17. https://10.3390/buildings12081115
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	<ol style="list-style-type: none"> 9. Buljan, Nebojša; Skejić, Davor; Krolo, Paulina; Lukić, Mladen Fatigue Behaviour of Aluminium Members with Different Notch Root Shapes // Buildings, 12 (2022), 5; 681, 22. doi: https://doi.org/10.3390/buildings12050681 10. Bolf, Davor; Zamarin, Albert ; Krolo, Paulina; Hadjina, Marko Experimental Evaluation of Shear Properties of Lightweight PVC Core for Marine Application Using Digital Image Correlation System // Journal of marine science and engineering, 10 (2022), 2; 280, 17. https://10.3390/jmse10020280 11. Krolo, P.; Grandić, D. Hysteresis Envelope Model of Double Extended End-Plate Bolted Beam-to-Column Joint // Buildings, 11 (2021), 11; 517, 22. https://10.3390/buildings11110517 12. Krolo, Paulina; Grandić, Davor; Smolčić, Željko Experimental and Numerical Study of Mild Steel Behaviour under Cyclic Loading with Variable Strain Ranges // Advances in materials science and engineering, 2016 (2016), 7863010, 13. https://10.1155/2016/7863010 13. Krolo, Paulina; Grandić, Davor; Bulić, Mladen The Guidelines for Modelling the Preloading Bolts in the Structural Connection Using Finite Element Methods // Journal of Computational Engineering, 2016 (2016), https://10.1155/2016/4724312 14. Krolo, Paulina; Čaušević, Mehmed; Bulić, Mladen Nelinearna seizmička analiza čeličnog okvira s djelomično krutim priključcima // Građevinar: časopis Hrvatskog saveza građevinskih inženjera, 67 (2015), 6; 573-583. https://10.14256/JCE.1139.2014
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List of publications which serve as a proof of teaching qualifications	The previously listed publications from 3 to 14.
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Leader of the following research projects	<ol style="list-style-type: none"> 1. ZIP UNIRI – Investigation of Behavior of Composite Panel Components with Integrated Steel Core, Faculty of Civil Engineering, University of Rijeka (November 11, 2020 – November 11, 2022) 2. UNIRI INOVA – Innovative Connection for Joining Structural Elements Made of Thin-Walled Steel C-Profiles, University of Rijeka (June 15, 2022 – June 15, 2023)
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Participant in the following research projects	<ol style="list-style-type: none"> 1. Rammed earth for modelling and standardization in seismically active areas, HRZZ (Croatian Science Foundation), December 31, 2020 – December 31, 2025 2. Prefabricated buildings of almost zero energy produced in an industrial way, IRI 2, European Regional Development Fund, August 1, 2020 – August 1, 2023 3. Improvement of Computational Models for Structural Condition Assessment, University of Rijeka, December 3, 2018 – December 31, 2021 4. Damage Assessment and Strengthening of Building Structures, University of Rijeka, January 1, 2014 – December 31, 2018 5. Development of Structures with Increased Seismic Reliability, University of Rijeka, 2013 – 2018 6. Development of Structures with Increased Seismic Reliability, Ministry of Science, Education and Sports of the Republic of Croatia, 2008 – 2012
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Supervision of PhD theses	1
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Examination of PhD theses	Two committees for the evaluation of doctoral dissertation topics.
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