PERSONAL INFORMATION

Name	Kristina Kostadinović Vranešević
Date / Place of birth Address Telephone E-mail	Jul 30th 1988 / Užice, Serbia Kraljice Katarine 76, 11030 Beograd +381 (0) 11 3218 586 <u>kkostadinovic@grf.bg.ac.rs</u>
EDUCATION	
2013 - Present	PhD Student <i>Faculty of Civil Engineering, Belgrade, Serbia</i> Department of Engineering Mechanics and Theory of Structures Exams passed during the first and the second year: 8/8
2011 - 2013	Master of Science (MSc) <i>Faculty of Civil Engineering, Belgrade, Serbia</i> Department of Construction Engineering (1 year studies) GPA: 9.29 / 10.0
2007 - 2011	Bachelor of Science (BSc) <i>Faculty of Civil Engineering, Belgrade, Serbia</i> Department of Construction Engineering (4 year studies) GPA: 9.04 / 10.0
WORK EXPERIENCE	
11/2014 - Present	Teaching assistant Faculty of Civil Engineering, Belgrade, Serbia
•	Engineering Mechanics 1 Undergraduate Course
•	Engineering Mechanics 2 Undergraduate Course
•	Energy Efficiency and Building Certification Undergraduate Course
05/2013 - 10/2014	Steel structures specialist DEL ING DOO, Belgrade, Serbia
•	Performed structural analysis and design of steel bridges and buildings in line with Serbian Design Code (SRPS), European Design Code (Eurocode) and Russian Design Code (SNiP); Prepared all components of project documentation (structural drawings, material specifications, bill of quantities, workshop drawings, plans of installation, contracts); Collaborated with architects to meet their demands, provide elegant structural design solutions and communicated with CAD technicians to improve structural design solutions.
PROJECTS FOR REFERENCE	
2013 •	Research Center "Renova Lab" in Innovation center "Skolkovo", Moscow – Member of the steel construction design team – Main and Detailed design Ski lifts for Kopaonik Ski Center in cooperation with Leitner ropeways – Member of design team – Main design
2014 •	Pharmaceutical Facility "Teva" in Yaroslavl, Russia – Member of the steel construction design team – Main and Detailed design Reconstruction of commercial center for Marriott International, Belgrade – Member of design team – Main and Detailed design of facade, work on the supplementary calculations due to the wind load
PUBLICATIONS AND PRESENTATIONS	
M21 ●	Kostadinović Vranešević K. , Šarkić Glumac A.: <i>Peak pressures on high-rise buildings roof: A dual approach through validated LES and wind tunnel experiments with uncertainty quantification</i> , Journal of Wind Engineering and Industrial Aerodynamics, Vol. 250, 2024, 105784, doi: 10.1016/j.jweia.2024.105784
•	Kostadinović Vranešević K. , Corić S., Sarkić Glumac A.: <i>LES study on the urban wind</i> <i>energy resources above the roof of buildings in generic cluster arrangements: Impact of</i> <i>building position</i> , Journal of Wind Engineering and Industrial Aerodynamics, Vol. 240, 2023, 105503, doi: 10.1016/j.jweia.2023.105503

- M22
- M24
- M33

- Kostadinović Vranešević K., Vita G., Bordas S.P.A., Šarkić Glumac A.: Furthering knowledge on the flow pattern around high-rise buildings: LES investigation of the wind energy potencial, Journal of Wind Engineering and Industrial Aerodynamics, Vol. 226, 2022, 105029, doi: 10.1016/j.jweia.2022.105029
- Hemida H., Šarkić Glumac A., Vita G., Kostadinović Vranešević K., Höffer R.: On the Flow over High-rise Building for Wind Energy Harvesting: An Experimental Investigation of Wind Speed and Surface Pressure, Applied Sciences, 10(15), 2020, pp 1-22, doi: 10.3390/app10155283
- Kostadinović Vranešević K., Gluhović N., Dobrić J., Spremić M.: *Behaviour of thin-walled cylindrical and conical shells carbon vs. stainless steel*, Građevinski materijali i konstrukcije, broj 1/2019, Beograd, Srbija, 2019, pp 27-41, doi: 10.5937/GRMK1901027K
- Kostadinović Vranešević K., Šarkić Glumac A.: Peak Pressure Evaluation on High-Rise Buildings: Insights from Experimental and LES Analyses, 9th International Colloquium on Bluff Body Aerodynamics and Applications, 29 July - 2 August 2024, University of Birmingham, UK, 2024
- Šarkić Glumac A., Jadhav O., Jočković M., **Kostadinović Vranešević K.**, Bordas S., Blocken B.: Prediction of the wind flow patterns above different building roof shapes using machine learning techniques, 9th International Colloquium on Bluff Body Aerodynamics and Applications, 29 July - 2 August 2024, University of Birmingham, UK, 2024
- Kostadinović Vranešević K., Šarkić Glumac A.: Impact of surroundings on the local peak pressure in high-rise building clusters, 16th International Conference on Wind Engineering (ICWE16): 27-30 August 2023, Florence, Italy, Proceedings on CD, Italy, 2023
- Kostadinović Vranešević K., Šarkić Glumac A., Bordas S.P.A.: The influence of exposure on wind flow characteristics around a high-rise building, 8th European-African conference on wind engineering (8EACWE): 20-23 September 2022, Bucharest: proceedings, Bucharest, Romania, 2022, ISBN: 978-973-100-532-4
- Kostadinović Vranešević K., Glumac A., Hemida H.: *Experimental investigation of wind load on low-rise industrial building*, 7th International Conference: Contemporary Achievements in Civil Engineering 2019, Conference proceedings, Subotica, Srbija, 2019, pp 333-340, ISBN: 978-86-80297-78-1
- Kostadinović Vranešević K., Glumac A., Hemida H.: *Experimental investigation of wind flow around low-rise tilted house*, 7th International Conference: Contemporary Achievements in Civil Engineering 2019, Conference proceedings, Subotica, Srbija, 2019, pp 323-332, ISBN: 978-86-80297-78-1
- Kostadinović Vranešević K., Glumac A., Winkelmann U.: *Pressure field analyses of a low-rise building model surrounded by neighbouring buildings in urban areas*, 7th International Congress of Serbian Society of Mechanics, Proc. on CD, Sremski Kralovci, Serbia, 2019, pp 1-8
- Lazić Ž., Kostadinović K., Koneski Z., Stanojević J.: Ultimate Load of Rectangular Plate, International Conference: Contemporary Achievements in Civil Engineering 2015, Conference proceedings, Subotica, Serbia, 2015, pp 309-315, DOI: 10.14415/konferencijaGFS 2015.039
- Šakrić A., **Kostadinović K.**, Šumarac D.: *Numerical Investigations of the Flow Around a High-rise Building*, 5th International Congress of Serbian Society of Mechanics, Proc. on CD, Aranđelovac, Serbia, 2015, pp 1-6, ISBN: 978-86-7892-715-7
- Šarkić A., Hemida H., Kostadinović K., Höffer R.: *Experimental Investigation of Interference Effect of High-rise Buildings for Wind Energy Extraction*, WINERCOST Workshop "Trends and Challenges for Wind Energy Harvesting", Proc. on CD, Coimbra, Portugal, 2015, pp 57-66
- Kostadinović Vranešević K., Gluhović N., Dobrić J., Spremić M.: Carbon steel vs. stainless steel behaviour of thin-walled cylindrical shells, 15. kongres DGKS, Proc. on CD, Zlatibor, Srbija, 2019, pp 519-528, ISBN: 978-86-6022-069-3
- Koneski Z., Kostadinović K., Kovačević S., Lazić Ž.: The Effect of Transverse Shear Deformation on the Bending of Rectangular Plates, 14. Congress DGKS, Zbornik radova, Novi Sad, Serbia, 2014, pp 205-214, ISBN: 978-86-85073-19-9

SCIENTIFIC WORKSHOPS

M63

 1st Training School on "Advances in Wind Energy Technology", WINERCOST, Malta, 26-31 May 2015 (awarded with full grant)

RESEARCH INTERESTS

• Wind engineering, CFD, wind energy, wind loading