

PERSONAL INFORMATION

Name Kristina Kostadinović Vranešević
Date / Place of birth Jul 30th 1988 / Užice, Serbia
Address Kraljice Katarine 76, 11030 Beograd
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EDUCATION

2013 - Present **PhD Student**
Faculty of Civil Engineering, Belgrade, Serbia
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)**
Faculty of Civil Engineering, Belgrade, Serbia
Department of Construction Engineering (1 year studies)
GPA: 9.29 / 10.0

2007 - 2011 **Bachelor of Science (BSc)**
Faculty of Civil Engineering, Belgrade, Serbia
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 (SNIIP);
- 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.**, Čorić S., Glumac Šarkić A.: *LES study on the urban wind energy resources above the roof of buildings in generic cluster arrangements: Impact of building position*, Journal of Wind Engineering and Industrial Aerodynamics, Vol. 240, 2023, 105503, doi: 10.1016/j.jweia.2023.105503
- **Kostadinović Vranešević K.**, Vita G., Bordas S.P.A., Glumac Šarkić 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

- M22**
- Hemida H., Glumac Šarkić 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
- M24**
- **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
- M33**
- **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, link: http://www.winercost.com/cost_files/WINERCOST_Workshop_Coimbra_FINAL_PROCEEDINGS.PDF
- M63**
- **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

- 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

SKILLS

Language

- Serbian (native)
- English – good

Computer

- Programing: Matlab
- Structural analysis programs: Autodesk Robot, SAP2000, Tower
- CFD simulation softwares: OpenFOAM, ANSYS ICEM, EnSight, Paraview

ACTIVITIES

- Tango, Pilates, Hiking