Curriculum vitae (CV)

1. Basic information:

Name: Filip Đorđević

Phone:
   - Work: +381113218590

Birth date: 10.11.1994. in Belgrade, Serbia

Gender: Man

Marital status: Married

Educational level: MSc Civil Engineer/ PhD candidate

E-mail:
   - Work: fdjordjevic@grf.bg.ac.rs

2. Education:

High school

Name of educational institution:	Fourth Belgrade Gymnasium
City / State:	Belgrade - Serbia
Start year / End year:	2009-2013

Faculty

Name of educational institution:	Faculty of Civil Engineering
City / State:	University of Belgrade - Serbia
Start year / End year:	Bachelor of Science (2013 - 2018) Master of Science (2018 - 2020) Doctor of Philosophy (2020- present)
Current qualification / title:	MSc Civil Engineer

3. Work experience:

Job title – Teaching assistant (PhD candidate)

Company, Town	Faculty of Civil Engineering – University of Belgrade Bulevar kralja Aleksandra 73, 11000 Beograd
From - to:	October 2020. – present

Description of work:	Holding excercises at the Department of Engineering Mechanics and Theory of Structures in the subjects Strength of Materials 1, Strength of Materials 2 and Application of Computers in Design of Structures. The aim of his research is to develop new computational approaches such as artificial intelligence, machine learning and genetic algorithms for different kinds of problems in the civil engineering industry.

Job title – BSc Civil Engineer

Company, Town	Institute for materials testing – Institute IMS Bulevar vojvode Misica 43, 11000 Beograd
From - to:	July 2017. – November 2018. year
Description of work:	He was working within the Central Laboratory for Material Testing - Concrete Laboratories. Participated in the testing and management of testing of fresh and hardened concrete according to domestic SRPS as well as Eurocode design codes. In addition to this, he worked on the preparation and testing of UHPC (Ultra High Performance Concrete) as well as SCC (Self-compacting concrete) concrete, participated in the final grades of the quality of concrete, preliminary concrete tests and design of concrete mix compositions for the needs of the contractor. He was also involved in the control of the production capacities of concrete factories, as well as in the testing of concrete elements for which the requirements and test methods were not directly covered by the standards, and he was also a participant in inter laboratory tests with close laboratories in the country and abroad.

4. Internship:

Job title – Student

Company, Town	Energoprojekt Bulevar Mihaila Pupina 12, 11070 Beograd
From - to:	October 2019. – November 2019. year
Description of work:	He was working as a site civil engineer on the construction of the Residential and business building "Park 11" Blok 11a - Novi Beograd.

Job title – Student

Company, Town	Institute for materials testing – Institute IMS Bulevar vojvode Misica 43, 11000 Beograd
From - to:	June 2016. – July 2016. year
Description of work:	He was working within the Construction and Prestress Center - Laboratory for Testing Structures, as well as within the Central Laboratory for Material Testing - Concrete Laboratories and Acoustics and Vibration Laboratories.

5. Projects | Skills | Awards:

Languages:	English – *Professional working proficiency* German – *Elementary proficiency*
Computer skills:	Autodesk Auto-Cad, Tower 8, SAP2000, Python, Matlab, MS Office, Adobe Photoshop Work in operating systems: Windows 7, 8, 10
Driving licence:	B category
Projects, awards, membership:	Participant of the Rapid Earthquake Loss Assessment and Recovery Framework (RELAR) project, financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia, within the call PRISMA (2024-2027) Award for the best student paper in the Category of Interdisciplinary Research of the *First Serbian International Conference on Applied Artificial Intelligence* (19-20.05.2022.) H2020 project - The Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe – Seismic Testing of Adjacent Interacting Masonry Structures (SERA-AIMS) project collaborator (10.2019-12.2021.) Project of Scaling Up Resiliency of Infrastrucutre - Seismic risk assesment of 70 Schools in Serbia (04.2020-07.2020.) Member of the Serbian Association for Earthquake Engineering SUZI-SAEE (2019- present) – Member of the Commission for Seismic Risk (2024-2026) Peer-reviewer of two SCI journals: 1. Journal of Big Data 2. Building and Environment

6. Bibliography:

Books:

1. Veljko Milutinović; **Filip Đorđević**; Miloš Kotlar; Jakob Salom (2024) An Introduction to the Management of Complex Software Projects. Cambridge Scholars Publishing. [MU] ISBN: 1-5275-5224-1

Journals:

1. Babović Z, Bajat B, Barac D, Bengin V, Đokić V, **Đorđević F**, et al. Teaching computing for complex problems in civil engineering and geosciences using big data and machine learning: synergizing four different computing paradigms and four different management domains. J Big Data [Internet]. 2023;10(1):89. Available from: https://doi.org/10.1186/s40537-023-00730-7 [M21a]

2. **Đorđević F**, Kostić SM. Practical ANN prediction models for the axial capacity of square CFST columns. J Big Data [Internet]. 2023;10(1):67. Available from: https://doi.org/10.1186/s40537-023-00739-y [M21a]

3. Babović Z, Bajat B, Đokić V, **Đorđević F**, Drašković D, Filipović N, et al. Research in computing-intensive simulations for nature-oriented civil-engineering and related scientific fields, using machine learning and big data: an overview of open problems. J Big Data [Internet]. 2023;10(1):73. Available from: https://doi.org/10.1186/s40537-023-00731-6 [M21a]

4. Tomić I, Penna A, DeJong M, Butenweg C, Correia AA, Candeias PX, ..., **Đorđević F**, Beyer K. Shake-table testing of a stone masonry building aggregate: overview of blind prediction study. Bull Earthq Eng [Internet]. 2023; Available from: https://doi.org/10.1007/s10518-022-01582-x [M21]

5. **Đorđević F** (2024) Numerical Modeling of Two Adjacent Interacting URM Structures. IPSI Transactions on Internet Research. 20 (1), pp.70-78. Available from: https://doi.org/10.58245/ipsi.tir.2401.07[M]

International Conferences:

1. **Đorđević F**, Marinković M. Implementation of Hybrid ANN-GWO Algorithm for Estimation of the Fundamental Period of RC-Frame Structures. In: Second Serbian International Conference on Applied Artificial Intelligence, Kragujevac, Serbia, 2023. [M33]

2. **Đorđević F**, Kostić SM. Axial Strength Prediction of Square CFST Columns Based on The ANN Model. In: First Serbian International Conference on Applied Artificial Intelligence, Kragujevac, Serbia, 2022. p. 12. [M33]

3. **Đorđević F**, Kostić SM. Prediction of ultimate compressive strength of CCFT columns using machine learning algorithms. In: The 8th International Conference "Civil engineering – science and practice.", Kolašin, Montenegro, 2022. p. 8. [M33]

4. **Đorđević F**, Kostić SM. Estimation of Ultimate Strength of Slender CCFST Columns Using Artificial Neural Networks. In: 16th Congress of Association of Structural Engineers of Serbia, Arandjelovac, Serbia, 2022. p. 10. [M33]

5. Tomić I, Andrea P, DeJong M, Butenweg C, Correia A, Candeias PX, ..., **Đorđević F**, Beyer K. Seismic testing of adjacent interacting masonry structures – shake table test and blind prediction competition. In: 3rd European Conference on Earthquake Engineering & Seismology, Bucharest, Romania, 2022. [M33]

6. **Đorđević F**. A Novel ANN Technique for Fast Prediction of Structural Behavior. In: 6th International Construction Management Conference, Belgrade, Serbia, 2022. [M33]

7. Šumarac D, **Đorđević F**, Matić D, Milutinović GV. A Preisach Model for the Lead-Rubber Bearing Hysteresis Loop. In: 8th International Conference Contemporary Achievements in Civil Engineering, Subotica, Serbia, 2021. [M33]