PERSONAL INFORMATION

BORIS TROGRLIĆ

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🌐 http://gradst.unist.hr/eng/about-the-faculty/directory/agenttype/view/propertyid/1783

Sex Male | Date of birth 14/07/1968 (Zenica, Bosnia and Herzegovina) | Nationality Croatian

POSITION

Full professor / Structural engineer

WORK EXPERIENCE

(23/02/2017 -) Full professor

University of Split / Faculty of Civil Engineering, Architecture and Geodesy / Matice hrvatske 15, HR 21000 Split, Croatia / www.gradst.hr

- Research in Structural Engineering (Numerical modelling of structures, Earthquake engineering)
- Teaching in: Engineering Statics, Non-linear Engineering Statics, Masonry Structures, Building Physics, Computer Aided Design of Structures
- Structural Engineering Design

Business or sector Higher education

(01/10/2014 – 30/09/2018) Dean

University of Split / Faculty of Civil Engineering, Architecture and Geodesy / Matice hrvatske 15, HR 21000 Split, Croatia / www.gradst.hr

- Management of Faculty (Dean of Faculty of Civil Engineering, Architecture and Geodesy)

Business or sector Higher education

(20/12/2012 - 22/02/2017) Associate professor

University of Split / Faculty of Civil Engineering, Architecture and Geodesy / Matice hrvatske 15, HR 21000 Split, Croatia / www.gradst.hr

- Research in Structural Engineering (Numerical modelling of structures, Earthquake engineering)
- Teaching in: Engineering Statics, Non-linear Engineering Statics, Masonry Structures, Building Physics, Computer Aided Design of Structures
- Structural Engineering Design
- Management of Faculty (Vice Dean for finances and professional work)

Business or sector Higher education

(15/10/2004 - 20/12/2012) Assistant professor

University of Split / Faculty of Civil Engineering, Architecture and Geodesy / Matice hrvatske 15, HR 21000 Split, Croatia / www.gradst.hr

- Research in Structural Engineering (Numerical modelling of structures, Earthquake engineering)
- Teacher in: Engineering Statics, Non-linear Engineering Statics, Computer Aided Design of Structures, Masonry Structures, Building Physics
- Structural Engineering Design
- Management of Faculty (Vice Dean for finances and professional work)

Business or sector Higher education

(01/02/1996 – 15/10/2004)	**Research Assistant**

University of Split / Faculty of Civil Engineering, Architecture and Geodesy / Matice hrvatske 15, HR 21000 Split, Croatia / www.gradst.hr

- Research in Structural Engineering (Numerical modelling of structures, Earthquake engineering)
- Teaching assistant in: Mechanic, Engineering Statics, Computer Aided Design of Structures
- Structural Engineering Design

Business or sector Higher education

EDUCATION AND TRAINING ■

(22/12/2003)	**Doctor of Philosophy (Ph. D.)**	8.2 CQF / 8.0 EQF

University of Split / Faculty of Civil Engineering, Architecture and Geodesy / Matice hrvatske 15, HR 21000 Split, Croatia / www.gradst.hr

- Creation and validation of new theories and methodologies in the field of structures and nonlinear numerical analysis: Nonlinear numerical modelling of stability and load-bearing capacity of reinforced concrete space frames

(11/07/2000)	**Master of Philosophy in Civil Engineering (MPhil. CE.)**	8.1 CQF / 8.0 EQF

University of Split / Faculty of Civil Engineering, Architecture and Geodesy / Matice hrvatske 15, HR 21000 Split, Croatia / www.gradst.hr

- Creation and validation of new type of structures: Analysis of Aseismic Complete Reinforced Lightweight Walls

(1995)	**Master of Science in Civil Engineering (M. Sc. CE.)**	7.1 CQF / 7.0 EQF

University of Split / Faculty of Civil Engineering, Architecture and Geodesy / Matice hrvatske 15, HR 21000 Split, Croatia / www.gradst.hr

- Analysis, validation and solving civil engineering problems in uncertain, new conditions

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PROFESSIONAL QUALIFICATION / EXPERIENCE / ACTIVITY

Qualifications and skills:
- Advanced university degree in architecture or engineering: PhD, MsCE
- Fluency in official languages of Bosnia and Herzegovina: Yes
- Working knowledge of English: Yes

General experience:
- Licenced engineer - designer: 17 years of professional experience
- Licenced supervisor engineer: 7 years of professional experience

Specific experience:
- Project Leader of project: By implementing a modern scientific-research infrastructure at Faculty of Civil Engineering, Architecture and Geodesy in Split to smart specialization in green and energy-efficient construction, 2014-2018. (2014-2018, EU Founds, 11 mil. Euros)
- Structural designer of building - Technology park Split, Dračevac
- UNIST TECHNOLOGICAL PARK - technical preparation of the project and obtaining a building permit
- Structural designer of building - Hydrotechnical laboratory - Faculty of Civil Engineering, Architecture and Geodesy in Split

PERSONAL SKILLS

Mother tongue(s) Croatian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B1	B1	B1

(English — first column label)

English: Listening B1, Reading B1, Spoken interaction B1, Spoken production B1, Writing B1

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

Communication skills
- Teaching experience at undergraduate, graduate and postgraduate studies (theory of structures, masonry structures, building physics, CAD)

Organisational / managerial skills
- Member of editorial board (Technical editor): International Journal for Engineering Modelling (University of Split, ISSN: 1330-1365)
- Coordinator of Faculty for Croatian Qualifications Framework to EQF and QF_EHEA
- Close connections and collaborations with industry
- Implementation of new courses on Graduate University Study and Professional study
- 2010.-2012., Vice-dean for Professional study on Faculty of Civil Engineering, Architecture and Geodesy in Split
- 2012.-, Vice Dean for finances and professional work on Faculty of Civil Engineering, Architecture and Geodesy in Split
- Structural design engineer, accredited Structural engineer, 2005.-

Computer skills
- Co-author of computer program for nonlinear numerical analysis of stability and load-bearing capacity of reinforced concrete space frames
- Good command of structural analysis software (SCIA Engineer, EMRC NISA), FORTRAN programming, CAD tools (ACAD)

ADDITIONAL INFORMATION

Publications - Books
- Structural analysis II., Faculty of Civil Engineering, Architecture and Geodesy, Split, 2014. (co-author)
- Structural analysis I., Faculty of Civil Engineering, Architecture and Geodesy, Split, 2011. (co-author)
- Concrete structures for buildings - selected examples, Croatian Chamber of Civil Engineers, 2010. (author of chapter)
- 40 Years of Higher Education of Civil Engineers in Split (1971 - 2011), Faculty of Civil Engineering, Architecture and Geodesy, Split, (Editor)

Publications – Papers (selected)
- Batinić, Milko; Galić, Mirela; Trogrlić, Boris; Divić, Vladimir; Racetin, Ivan; Mihanović, Ante. Combined photogrammetry and mechanical testing of fired clay brick // Materialwissenschaft und Werkstofftechnik, 49 (2018)
- Smoljanović, Hrvoje; Uzelac, Ivana; Trogrlić, Boris; Živaljić, Nikolina; Munjiza, Ante. A computationally efficient numerical model for a dynamic analysis of beam type structures based on the combined finite‐discrete element method // Materialwissenschaft und Werkstofftechnik, 49 (2018)
- Balić, Ivan; Trogrlić, Boris; Mihanović, Ante. Simplified multimodal pushover target acceleration method for seismic resistance analysis of medium-rise RC structures. // KSCE Journal of Civil Engineering. 21 (2017)
- Balić, Ivan; Živaljić, Nikolina; Smoljanović, Hrvoje; Trogrlić, Boris. Seismic resistance of dry stone arches under in- plane seismic loading. // Structural engineering and mechanics. 58 (2016)
- Balić, Ivan; Mihanović, Ante; Trogrlić, Boris. Target acceleration method for analysis of RC structures. // Engineering computations. 32 (2015)
- Smoljanović, Hrvoje; Balić, Ivan; Trogrlić, Boris. Stability of regular stone walls under in-plane seismic loading. // Acta mechanica. 226 (2015)
- Trogrlić, Boris; Harapin, Alen; Mihanović, Ante. The null configuration model in limit load analysis of steel space frames. // Materialwissenschaft und Werkstofftechnik. 42 (2011)

- Trogrlić, Boris; Mihanović, Ante. The comparative body model in material and geometric nonlinear analysis of space R/C frames. // Engineering Computations. 25 (2008)
- more on: https://www.bib.irb.hr/pregled/znanstvenici/210964?autor=210964

Conferences	International scientific conferences:

- Member of the Scientific Committee / Co-organizer of the session on International Conference on Advanced Computational Engineering and Experiment: ACEX 2019 (Athena), ACEX 2018 (Amsterdam), ACEX 2018 (Wien), ACEX 2016 (Split), ACEX 2015 (Munich), ACEX 2014 (Paris), ACEX 2013 (Madrid), ACEX 2012 (Istanbul)
- DAS 2008, 25th Danubia-Adria Symposium on Advances in Experimental Mechanics, České Budějovice, Czech Republic, 2008.
- 8th. World Congress on Computational Mechanics (WCCM8) and 5th. European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2008), Venice, Italy, 2008.
- III. European Conference on Computational Mechanics; Solid, Structures and Coupled Problems in Engineering, Lisbon, Portugal, 2006.
- International Conference on Bridges, Structural Engineering Conference (SECON) and Croatian Society of Structural Engineers (CSSE), Dubrovnik, 2006.
- NATO Advanced Research Workshop on Multi-physics and Multi-scale Computer Models in Non-linear Analysis and Optimal Design of Engineering Structures Under Extreme Conditions, Bled, Slovenia, 2004.
- The 9th International Conference on Numerical Methods in Continuum Mechanics, Žilina, Slovakia, 2003.

Scientific projects
- Modelling failure and stability of structures under large displacement (researcher)
- Non-linear seismic analysis of three-dimensional reinforced concrete structures (researcher)

Other Projects
- International study program Structures resistant to accidental actions– Resilient Structures – InterStruct, Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering and Architecture Osijek, 2019.- (Member of Workgroup)
- By implementing a modern scientific-research infrastructure at Faculty of Civil Engineering, Architecture and Geodesy in Split to smart specialization in green and energy-efficient construction, 2014-2018. (Project Leader)
- HR.3.1.15 - Strategic Development of Higher Education and Qualifications Standards in the field of sustainable and green building with innovative and interdisciplinary development of new Master's degree program in a sustainable and green building with a focus on the Mediterranean area, 2014.-2016. (Project Leader)
- "Technology transfer infrastructure in the Croatian Adriatic Region – TTAdria", 2013.-2014. (Sector expert)
- IPA IV Programme, "Further development and implementation of the Croatian Qualifications Framework in Croatia", Europeaid/131254/M/ACT/HR, 2011. (Member of Workgroup)

Seminars
- Lecturer in Erasmus Programme - Teaching Staff Mobility for academic year 2015/2016 University of Ljubljana, Faculty of Civil and Geodetic Engineering, Slovenia (24-28.10.2016.)
- Lecturer in Erasmus Programme - Teaching Staff Mobility for academic year 2014/2015 on VŠB-Technical University of Ostrava, Czech (25-29. 05. 2015.)
- Lecturer in Erasmus Programme - Teaching Staff Mobility for academic year 2013/2014 on Hochschule RheinMain University Wiesbaden, Department of Architecture and Civil Engineering, Institute of Building Materials and Structures, Wiesbaden, Germany (14-18. 10. 2013.)
- Lecturer in Erasmus Programme - Teaching Staff Mobility for academic year 2013/2014 on Czech Technical University in Prague, Faculty of Civil Engineering, Prague, Czech (05-09. 05. 2014.)
- Lecturer in Long life learning seminars (over 50 seminars), (Faculty of Civil Engineering, Architecture and Geodesy, Split / Croatian Chamber of Civil Engineers), 2007-.

Memberships
- Lions Clubs International "Diocletian" Split, District 126, Croatia, 2009.-
- Croatian Chamber of Civil Engineers, 2005.-
- Croatian society of mechanics, 1996.-

Split, May 2022.