

EDUCATION

University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia
Doctor of Philosophy (Ph.D.), Structural & Earthquake Engineering, 180 ECTS 2011–2016
– Cumulative GPA: 5.00/5.00; Structural & Earthquake Engineering Specialization
– Dissertation: *Assessment and Strengthening Models of Reinforced–Concrete Frames by Adding the Infills for Earthquake Action*
– Advisors: Full Prof. Ivica Guljaš, Ph.D., & Full Prof. Vladimir Sigmund, Ph.D., P.E.
– Committee: Prof. Ivica Guljaš, Prof. Dragan Morić, Prof. Veronika Shendova (IZIIS)

University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia
Master's Degree (M.Civ.Eng.), Civil & Structural Engineering, 120 ECTS 2008–2010
– Cumulative GPA: 4.16/5.00; Structural Engineering Major
– Final Thesis: *Qualitative and Quantitative Differences of Reinforced–Concrete Structures Designed with the Limited and the Highest Possible Ductile Behaviour* | Course: Earthquake Engineering
– Advisor: Full Prof. Dragan Morić, Ph.D., P.E.

University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia
Bachelor's Degree (B.Civ.Eng.), Civil Engineering, 180 ECTS 2005–2008
– Cumulative GPA: 3.87/5.00
– Final Thesis: *Design of Reinforced–Concrete Awning Structure above Five Railway Tracks and Railway Station Platform* | Course: Reinforced–Concrete Structures
– Advisor: Full Prof. Dragan Morić, Ph.D., P.E.

PROGRAMMING, SOFTWARE & HARDWARE PROFICIENCIES

Working knowledge

MATLAB/Simulink, GNU/Octave, Python, TCL, Mathcad, Mathematica, GNU/R, OpenSees (Navigator, BuildingTcl, IDE), SeismoSoft Products Suite, CSI (SAP2000, ETABS, Perform3D, Safe), NONLIN, Radimpex TOWER, T_EX/L^AT_EX, Autodesk Products Suite (AutoCAD, ROBOT, Advance Concrete/Steel, Revit, 3ds Max/V-Ray), Microsoft Office Suite, Adobe Creative Suite, CorelDRAW Graphics Suite, SVN, OpenSHA, National Instruments (DAQ)/DIAdem, DeweSoft (DAQ), BARTEC SYSCOM, GNU/Linux, UNIX, Windows, Raspberry Pi, Arduino, IoT, Accelerometers, Gyroscopes, Geophones, Seismographs via Microcontrollers & Microcomputers

Basic knowledge

Simulia Abaqus, Java, C/C++, MACEC, Visual Studio, CAPRA–GIS, CRISIS, PACT (ATC–58), OpenQuake, HAZUS–MH, QGIS, ArcGIS, SAS, SPSS, DAP, Cluster & Cloud Computing, Engineering Equation Solver (EES), WordPress, Nemetschek Allplan, SCIA Engineer, Bluebeam, COMSOL, Tekla Structural Designer (BIM), NI LabVIEW, HTML/CSS, MySQL/PHP

SCHOLARSHIPS, HONORS & AWARDS

Award for the best paper/presentation, Young Scientist, Univ. of Košice, Slovakia 2014
CMEPIUS Scholarship for research stay at IKPIR, Ljubljana, Slovenia 2013
ERASMUS+ Scholarship for Bauhaus–Universität Weimar, Germany 2012
Rector's Award for an excellent semester paper titled *Designing the overpass* 2010
Award on National Competition of Architectural Schools, in Pula, Croatia 2005

- RESEARCH AREAS OF INTEREST** Earthquake Engineering and Structural Dynamics, Performance-Based Seismic Assessment and Design, Seismic Analysis, Experimental Evaluations of Structural Elements and Systems (Pseudo-Dynamic/Dynamic/Hybrid), Numerical Modelling, Probabilistic Risk Assessment and Loss Estimation of Structures, Portfolio Multi-Peril Risk Assessment (CAT)
- PROFESSIONAL EXPERIENCE**
- University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia**
Teaching and Research Assistant, Post-doctoral Researcher DECEMBER 2010–PRESENT
- Education, Scientific research, Practice projects, Professional work
 - Teaching *Mechanics, Structural Analysis, Mechanics of Materials* and *Structural Testing*
 - Research fellow on two significant international research projects, in the field of Earthquake Engineering and Structural Dynamics
- TRINAS Project Ltd, Osijek, Croatia**
External Associate for Designing and Consulting JANUARY 2011–PRESENT
- Structural and architectural designing, professional supervision
 - Energy certification, condominium conversion, consulting services
 - Technical studies, expert studies, field tests
- ArkkiDaM Ltd, Osijek, Croatia**
Assistant Designer in Architecture JUNE 2004–SEPTEMBER 2010
- Practice work on a construction site, development construction projects
 - Construction supervision, bill of quantities (BOQ)
 - ArchViz, 3D modelling, rendering & animation
- DOM Ltd, Osijek, Croatia**
Assistant Technician on Site JUNE 2003–JUNE 2004
- Professional practice work on a construction site, site diary and book building
 - Contractor coordination, methods of constructing reinforced concrete works
- TEACHING EXPERIENCE**
- University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia**
(Under)Graduate Teaching Assistant, Department for Technical Mechanics 2010–PRESENT
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|--|---------------------|
| 2.15–101: Mechanics I | SPRING 2014, 2015 |
| 2.15–106: Structural Analysis I | 2010–PRESENT |
| 2.15–109: Structural Analysis II | 2010–PRESENT |
| 2.15–105: Mechanics of Materials II | SPRING 2012, 2013 |
| 2.05–208: Structural Testing | FALL 2014–PRESENT |
| 2.09–102: Programming in Civil Engineering | SPRING 2017–PRESENT |
| 2.05–106: Finite Element Method | WINTER 2017–PRESENT |
- TRAINING & SPECIALIZATION**
- Risk Assessment and Loss Estimation, UME School, IUSS Pavia/Eucentre, Italy**
Training as Part of Post-Doctoral Education, Paolo Bazzurro, Mario Ordaz, Vitor Silva, Mario Salgado FEBRUARY 2017–MARCH 2017
- Fundamentals of Probability and Statistics, Multi-Hazard Risk Assessment for Portfolios of Structures, Risk Theory, Earthquake Risk Modelling
 - Assessment of seismic vulnerability of single and groups structures (Nonlinear Static & Dynamic Procedures, Empirical & Analytical Methods)
 - Hazard, Exposure, Human/Economic Losses, Remote Sensing, Example applications (Istanbul, Italy, Messina, Priolo) and related initiatives (GEM, WRN)

Improved Fastening Systems of Cladding Panels for Precast Buildings in Seismic Zones, SAFECLADDING, IKPIR, Ljubljana, Slovenia

Visiting Researcher, Matej Fischinger & Tatjana Isaković OCTOBER 2013–JANUARY 2014

- The analysis of different methods of fastening cladding panels, forecasting the dynamic response of the future experimental models, processing and calibration

Seismic Analysis and Design of Tall Buildings, UME School, IUSS Pavia/Eucentre, Italy

Training as Part of the Doctoral Studies, Farzad Naeim & Farzin Zareian APRIL 2013

- State-of-the-art in seismic analysis and design of tall buildings from the perspective of the United States academics and practitioners

Model Validation and Simulation, Bauhaus–Universität Weimar, Germany

Summer School Training, Jochen Schwarz & Lars Abrahamczyk AUGUST 2012

- Evaluation of Seismic Performance of a Template Design RC School Building Before and After Strengthening on the Basis of Measured Building Response Data and Evaluate the Earthquake Resistant Design

Pedagogical–Psychological and Didactic–Methodological Training, Faculty of Education, Osijek, Croatia

Training as Part of the Doctoral Studies FEBRUARY 2011–MAY 2011

- Learning guidelines and adoption of competencies for future position of assistant professor

**LEADERSHIP
EXPERIENCE**

FRAMA–2015 International Benchmark / Blind Analysis Contest, Osijek, Croatia

Chief of Blind Analysis Contest 2014–2016

- The organization and implementation of the [Blind Analysis Contest](#) (FRAMA–2015 International Benchmark) as part of the project *FRAMed–MAsonry Composites for Modelling and Standardization*
- Designing and putting into operation the official website of the project FRAMed–MAsonry framed-masonry.com
- Coordination of registered teams for three phases of the Blind Analysis Contest, Pre–Test, Post–Test and Calibration Phase
- Organization of Post–FRAMA–2015 Workshop (in progress, expected in spring 2017)

International Summer Conference of Civil Engineering Students – ISUCCES, Osijek, Croatia

Chief of Organizing Committee During the Conference SUMMER 2013

- Provided academic, personal, and professional advice for 35 students, [ISUCCES–2013](#)
- Planned events for residents, such as workshops and additional facilities for leisure
- Editor of ISUCCES 2013 – STUDENT CONFERENCE & WORKSHOP PROCEEDINGS

**RESEARCH
EXPERIENCE**

FRAMed–MAsonry Composites for Modelling and Standardization – FRAMA, Osijek, Croatia

Graduate Research Assistant, Post–doctoral Researcher 2014–PRESENT

- Croatian Science Foundation (HrZZ), framed-masonry.com
- Principal Investigator Full Prof. Vladimir Sigmund, Ph.D., P.E., later Full Prof. Ivica Guljaš, Ph.D.
- FRAMA–2015 International Benchmark / Blind Analysis Contest
- Shaking Table Testing, Strengthening Techniques, Numerical Modelling

Nonlinear Analysis of Reinforced–Concrete Infilled Frames Characteristic for Macedonia and Croatia, Osijek, Croatia / Skopje, Macedonia

Graduate Research Assistant

2013–2014

- Ministry of Science, Education and Sport of the Republic of Croatia (MZOS), zprojekti.mzos.hr
- Principal Investigator Full Prof. Vladimir Sigmund, Ph.D., P.E.
- Partners from the Institute of Earthquake Engineering and Engineering Seismology (IZIIS), Skopje, Macedonia

Seismic Design of Reinforced–Concrete Infilled Frames, Osijek, Croatia

Graduate Research Assistant

2010–2014

- Ministry of Science, Education and Sport of the Republic of Croatia (MZOS), zprojekti.mzos.hr
- Principal Investigator Full Prof. Vladimir Sigmund, Ph.D., P.E.

Improved Fastening Systems of Cladding Panels for Precast Buildings in Seismic Zones – SAFECLADDING, IKPIR, Ljubljana, Slovenia

Graduate Research Assistant, Visiting Researcher

2013

- Research for SMEs associations Project FP7–314122, safeccladding.eu
- Principal Investigators at IKPIR, Ljubljana, Full Prof. Matej Fischinger, Ph.D., P.E. & Full Prof. Tatjana Isaković, Ph.D., P.E.

PUBLICATIONS

International Journals (Current Contents)

Grubišić, Marin; Kalman Šipoš, Tanja & Guljaš, Ivica [2017] *Testing of Damaged Single-Bay RC Frames Strengthened with Masonry–Infill Walls*, *Engineering Structures*, Elsevier (In press)

Kalman Šipoš, Tanja; Rodrigues, Hugo & **Grubišić, Marin** [2017] *Seismic Damage Assessment of Masonry Infilled Frames*, *Engineering Structures*, Elsevier (Under review)

Furtado, André; Rodrigues, Hugo; Arêde, António; Varum, Humberto; **Grubišić, Marin** & Kalman Šipoš, Tanja [2017] *Blind Test Prediction of a Three-Storey Infilled RC Structure Earthquake Response*, *Earthquake Engineering & Structural Dynamics*, Wiley (In press)

Grubišić, Marin; Kalman Šipoš, Tanja & Rodrigues, Hugo [2017] *Reliability Analysis of Lateral Bearing Capacity of Reinforced–Concrete Frame by Finite Element Method (FEM)*, *Engineering Structures*, Elsevier (Under review)

Book Chapter

Abrahamczyk, Lars; Genes, M. Cemal; Andic, Halil Ibrahim; Bonev, Todor; Boshnakov, Simeon; Elyamani, Ahmed; **Grubišić, Marin**; Havliková, Ivana; Udrea, André; Ugurlu, Tolga; Yelen, Burcu; Stilianopoulou, Lily; Tsonev, Aleksander; Zimmo, Iyad [2013] *Project 3 – Evaluation of seismic performance of a template design RC school building before and after strengthening*, *Model Validation and Simulation / Abrahamczyk, Lars; Schwarz, Jochen; Werner, Frank (ed.). Weimar: Verlag der Bauhaus–Universität Weimar, 309–318*

National Journals

Teni, Mihaela; **Grubišić, Marin** & Guljaš, Ivica [2014] *Simplified Approaches for Modeling Infilled Frames*, *Elektronički časopis Građevinskog fakulteta Osijek e–GFOS*. 9; 70–88

Lozančić, Silva & **Grubišić, Marin**; Bakunić Tomislav [2013] *Influence Lines Constructed Using Autodesk Robot*, *Elektronski časopis Građevinskog Fakulteta Osijek, e–GFOS*. 6; 34–46 (In Croatian)

International Conferences

Grubišić, Marin; Kalman Šipoš, Tanja & Rodrigues, Hugo [2018] *Shake-Table Tests of Spatial Reinforced-Concrete Frame Models with Masonry Infill Walls*, 11th National Conference on Earthquake Engineering (11NCEE), 25–29 June 2018, Los Angeles, California, USA

Grubišić, Marin; Gazić, Goran & Kalman Šipoš, Tanja [2018] *Testing of Single-Bay Weak Reinforced-Concrete Infilled Frames Strengthened with Composite Materials*, 16th European Conference on Earthquake Engineering (16ECEE), 18–21 June 2018, Thessaloniki, Greece

Grubišić, Marin; Kalman Šipoš, Tanja & Rodrigues, Hugo [2018] *Shake-Table Tests of Spatial Reinforced-Concrete Frame Models with Masonry Infill Walls*, 16th European Conference on Earthquake Engineering (16ECEE), 18–21 June 2018, Thessaloniki, Greece

Kalman Šipoš, Tanja; **Grubišić, Marin;** Miličević, Ivana & Hadzima-Hyarko, Marijana [2018] *Structural Performance Levels for Masonry Infilled Frames*, 16th European Conference on Earthquake Engineering (16ECEE), 18–21 June 2018, Thessaloniki, Greece

Rodrigues, Hugo; Furtado, André; Arêde, António; Varum, Humberto; **Grubišić, Marin;** & Kalman Šipoš, Tanja [2017] *Blind Test Prediction of an Infilled RC Building with OpenSees*, OpenSees Days Europe, First European Conference on OpenSees, June 19–20, 2017, Porto, Portugal

Grubišić, Marin & Sigmund, Vladimir [2014] *Experimental Studies of Single Bay RC Frames with Strengthened Masonry Infill*, Young scientist 2014 / Platko, Peter; Eštoková, Adriana; Lojkovics, Ján (ur.). Košice: Technical University. 94–107

Grubišić, Marin & Sigmund, Vladimir [2014] *Comparison of Different Strengthening Techniques of Damaged and Weak Reinforced-Concrete Frames*, Second European Conference on Earthquake Engineering and Seismology (2ECEE) / Ansal, Atilla M. (ur.). Istanbul: EAEE, Maya Basin Yayın ve Matbaacılık Ltd. Şti, 143–150

Grubišić, Marin; Kalman Šipoš, Tanja & Sigmund, Vladimir [2013] *Seismic Fragility Assessment of Masonry Infilled Reinforced Concrete Frames*, SE-50EEE / Mihail, Garevski (ur.). Skopje: Macedonian Association of Earthquake Engineering – MAEE, 1–10

Grubišić, Marin & Sigmund, Vladimir [2013] *Seismic Strengthening of Masonry Infilled Reinforced Concrete Frames*, Bauhaus Summer School 2012 *Model Validation and Simulation: proceedings* / Lars Abrahamczyk, Lars; Schwarz, Jochen; Werner, Frank (ur.). Weimar: Bauhaus-Universität Weimar, Fakultät Bauingenieurwesen, Institut für Konstruktiven Ingenieurbau, 77–85

Grubišić, Marin & Sigmund, Vladimir [2012] *Seismic Vulnerability of Masonry Infilled Reinforced Concrete Frames*, 7th ICCSM, International Congress of Croatian Society of Mechanics / Virag, Zdravko; Kozmar, Hrvoje; Smojver, Ivica (ur.). Zagreb, Croatia: Croatian Society of Mechanics (CSM), Studio HRG, Zagreb, Croatia

Grubišić, Marin & Sigmund, Vladimir [2015] *Reliability Analysis of Lateral Bearing Capacity of Reinforced-Concrete Frames with Masonry Infill Walls by Finite Element Method (FEM)*, Zajednički temelji 2015 – Zbornik sažetaka / Lovrić, Ivan; Vrdoljak, Anton (ed.).

Građevinski fakultet Sveučilišta u Mostaru, Mostar: Udruga hrvatskih građevinskih fakulteta, 2015. 23–24 (In Croatian)

National Conferences

Grubišić, Marin & Sigmund, Vladimir [2011] *Seismic Strengthening of Infilled-Frames for Earthquake Action*, Zbornik radova Četvrtog susreta Hrvatskog društva za mehaniku / Živić, Marija (ur.). Slavonski Brod: Hrvatsko društvo za mehaniku, 161–166 (In Croatian)

Other

Grubišić, Marin [2017] *An Introduction to MATLAB*, Student Manual/Handbook (In Croatian)

Grubišić, Marin & Anić, Filip [2015] *Handbook for Managing Quanser Shake Table II through MATLAB and SIMULINK*, Student Manual/Handbook (In Croatian)

Grubišić, Marin [2010] *Bridge Overpass Design*, Professional Work, Rector's Award (In Croatian)

INVITED TALKS

Grubišić, Marin & Sigmund, Vladimir [2014] *Seismic Fragility Assessment of Masonry Infilled Reinforced Concrete Frame*, December 5th 2014., Invited popular-scientific lecture, Croatian Society of Mechanics (In Croatian)

Sigmund, Vladimir; Penava, Davorin; Gazić, Goran & **Grubišić, Marin** [2014] *Strong and weak frames infilled with masonry*, 9. Dani ovlaštenih inženjera građevinarstva / Hrvatska komora inženjera građevinarstva (ur.). Opatija: HKIG, 2014. 1–39 (In Croatian)

LANGUAGE SKILLS

English: *Fluent*
 German: *Elementary*
 Slovene: *Elementary*
 Croatian: *Mother Tongue*

PROFESSIONAL AFFILIATIONS

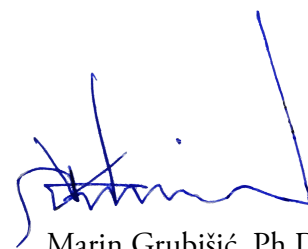
Member EERI (Earthquake Engineering Research Institute)	2013–PRESENT
Member NEES (Network for Earthquake Engineering Simulation)	2012–PRESENT
Member CSM (Croatian Society of Mechanics)	2011–PRESENT

PERSONAL INFORMATION

Gender:	Male
Date & place of birth:	April, 8 th , 1987, Osijek, Croatia
Nationality:	Croat
Marital status and family:	Married, father of two

ACTIVITIES & INTERESTS

Music, Reading, Photography, Kickboxing & Fitness, Basketball, Swimming, Cycling, ArchViz, 3D Modelling, Rendering & Animation, Graphic/Web Design, Drawing & Painting, Assembling & Management of Electronics (Sensors, Programming & Single Board Computers), Computer System Administration



Marin Grubišić, Ph.D.