

## Ana Veljkovic

✉ [ana.veljkovic@polimi.it](mailto:ana.veljkovic@polimi.it)**EDUCATION**

- Sept 2014 – Sept 2018 **Ph.D. in Civil and Material Engineering**  
ABC Department, Politecnico di Milano, Italy
- Thesis title: “Bond of GFRP Bars and Concrete: From Local to Structural Mechanical Behaviour”,
- Sept 2004 – Sept 2010 **B.Sc. and M.Sc. in Civil Engineering**  
Faculty of Civil Engineering, University of Belgrade, Serbia
- Thesis title: “Prestressed concrete bridge, design calculation in software Sofistik”.

**WORKING EXPERIENCE**

- 2010 - 2014 **Structural engineer**  
Design office “DB inzenjering”, Belgrade, Serbia, specialized for concrete bridges design
- Structural analysis of reinforced and prestressed concrete bridges,
  - Calculation of construction stages and deformation states throughout the erection process of balanced cantilever bridge,
  - Structural analysis of sheet piles for constructing the piers foundations in seabed.

**TEACHING EXPERIENCE**

- 2018/2019 **Adjunct professor of Structural Mechanics at Architectural Design Studio 2 course**  
*(in English)*  
Bachelor course in School of Architecture Urban Planning Construction Engineering, Politecnico di Milano, Italy
- Analysis of functional assembly of structures and characterisation of their main bearing elements,
- 2016/2017 **Lecturer - Training School “Reinforcing and Strengthening of Structures with FRP Reinforcement”**  
*(in English)*  
Ph.D. course in Civil Engineering, Ghent University, Belgium
- Practical use of internal FRP reinforcement - design examples
- 2009 **Lecturer - Matrix Analysis of Structures**  
*(in Serbian)*  
M.Sc. course in Civil Engineering, University of Belgrade, Serbia
- Matrix Structural Analysis of Trusses, Beams, Framed and Grid Structures – design examples.

**TRAINING**

- 2015, 2016 Visiting Researcher at University of Kaiserslautern  
Approx. 6 months spent at the Laboratory for Structural Engineering, University of Kaiserslautern, working on the experimental tests,
- 27 – 30 January 2015 Training School “Reinforcing and Strengthening of Structures with FRP Reinforcement”  
Organized by prominent international experts in this area, held at Ghent University, under the patronage of Marie Curie ITN “endure” and COST Action TU1207.

**FUNDING and ACADEMIC AWARDS**

- August 2014 Marie Curie Research Grant within ITN **endure** (36 months)  
Fund of European Commission within Marie Curie Actions FP7 – Network for Initial Training
- November 2010 Award “The Best MSc Thesis in the field of Concrete Bridges”  
Foundation of Professor Ilija Stojadinović – Civil engineering and construction company “Mostogradnja”
- Academic year 2008/2009 “Fund for young talents” student grant (12 months)  
Fund of Ministry of Science and Education, Serbia, for the Best 1000 Students of the final year at State Universities in Serbia
- November 2008 Award for the Outstanding Performance during Civil Engineering studies in the academic year 2007/2008  
Faculty of Civil Engineering, University of Belgrade, Serbia
- November 2007 Award for the Outstanding Results in courses of Department for Mechanics and Theory of Structures  
Foundation of Professor Dušan Krajčinović

**LANGUAGE SKILLS**

Mother tongue(s)	Serbian
Other language(s)	
English	C1 - Professional Working Proficiency
Italian	B2 - Intermediate User
French	B1 - Intermediate User

**COMPUTER SKILLS**

Basic	Microsoft Office
Drawing	AutoCAD, ArmCAD
Structural Engineering And Finite Element Analysis	<ul style="list-style-type: none"> <li>• Abaqus</li> <li>• Sofistik</li> <li>• RM Bridge</li> <li>• Tower</li> </ul>

## MEMBERSHIP IN INTERNATIONAL RESEARCH ORGANIZATIONS

- |                       |  |
|-----------------------|--|
| Sept 2014 – Sept 2017 | <ul style="list-style-type: none"> <li>• Marie Curie ITN <b>endure</b> – European Network for Durable Reinforcement and Rehabilitation Solutions</li> </ul>                      |
| Oct 2014 – April 2017 | <ul style="list-style-type: none"> <li>• COST Action TU1207 (New generation of design guidelines in the field of composite reinforcement for structural applications)</li> </ul> |
| Oct 2014 – present    | <ul style="list-style-type: none"> <li>• fib Task Group 5.1 'FRP Reinforcement for Concrete Structures'</li> </ul>   |
| March 2018 – present  | <ul style="list-style-type: none"> <li>• fib Task Group 2.5 'Bond and Material Models'</li> </ul>  |
| July 2014 – present   | <ul style="list-style-type: none"> <li>• AIS<sup>3</sup> – Association of Italian and Serbian Scientists and Scholars</li> </ul>   |

## LIST OF MOST IMPORTANT PUBLICATIONS

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|----------------|--|
| December 2018  | <ul style="list-style-type: none"> <li>• “Effect of small concrete cover on the fatigue behavior of GFRP bar and concrete bond”, Ana Veljkovic, Valter Carvelli, Marcin Michal Haffke, Matthias Pahn. Journal of Composites for Construction 23:2 (2019), pg. 04018082 (1 – 13)</li> </ul>   |
| May 2017       | <ul style="list-style-type: none"> <li>• “Concrete cover effect on the bond of GFRP bar and concrete under static loading”, Ana Veljkovic, Valter Carvelli, Marcin Michal Haffke, Matthias Pahn. Composites Part B 124 (2017), pg. 40-53;</li> </ul>   |
| October 2017   | <ul style="list-style-type: none"> <li>• “Modelling bond of GFRP rebar and concrete”, Mohammadali Rezazadeh, Valter Carvelli, Ana Veljkovic. Construction &amp; Building Materials 153 (2017), pg. 102–116;</li> </ul>   |
| December 2016  | <ul style="list-style-type: none"> <li>• “Static and fatigue bond behaviour of GFRP bars and concrete”, Ana Veljkovic, Marcin Michal Haffke, Valter Carvelli, Matthias Pahn. The 8th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), The Hong Kong Polytechnic University, Hong Kong, China, 14 – 16 December 2016;</li> </ul> |
| September 2017 | <ul style="list-style-type: none"> <li>• “Experimental measurements and numerical modelling of bond between GFRP bars and concrete”, Ana Veljkovic, Mohammadali Rezazadeh, Valter Carvelli. ACIC 2017 – 8th International Conference on Advanced Composites in Construction, 5-7th September 2017, University of Sheffield, UK;</li> </ul>   |