

Anna Mordanova

EDUCATION

- 11/2014 – **Roma Tre University**, Italy
 11/2017 *PhD in Civil Engineering with a thesis on: "Seismic Assessment of Architectural Heritage using Discrete Element Method"*
 09/2013 – **University of Minho**, Portugal / **Czech Technical University**, Czech Republic
 07/2014 *Advanced Masters in Structural Analysis of Monuments and Historical Constructions*
 09/2004 – **Northern (Arctic) Federal University**, Russia
 06/2009 *Engineer in Industrial and Civil Engineering*

PROFESSIONAL COURSES

- 09/2016 **Summer School**, University of Split, Croatia
FDEM Application in Engineering (2 ECTS)
 01/2016 **FRP Training Course**, Ghent University, Belgium
Reinforcing and strengthening of structures with FRP reinforcement
 04/2015 **Doctoral Course**, Roma Tre University, Italy
Seismic Assessment of Masonry Structures
 10/2014 **Doctoral Course**, European University Centre for Cultural Heritage, Italy
The Future of Cultural Heritage in Smart Cities (3 ECTS)
 01–06/2012 **Language Course**, Central College of London, UK
General English (IELTS 6.5)
 09-12/2010 **Training Course**, Arkhangelsk College of Construction and Economy, Russia
Quantity survey, evaluation and pricing of construction works and products

FELLOWSHIPS AND GRANTS

- 3 year PhD Scholarship sponsored by Roma Tre University, 2014 - 2017
 Category A Scholarship sponsored by the European Commission, 2013 - 2014
 Scholarship sponsored by the President of the Russian Federation, 2004 - 2009

RESEARCH EXPERIENCE

Roma Tre University, Rome, Italy 11/2014 – present

PhD Student, Supervisor: prof. Gianmarco de Felice

Seismic Assessment of Architectural Heritage using Discrete Element Method

- Performing historical, structural and architectural investigations of monumental structures;
- Developing tools for seismic analysis of monumental structures by means of the discrete element method - DEM;
- Analyzing and improving obtained numerical results;
- Applying the procedure to the seismic assessment of historical monuments;
- Working with the European, American and Italian standards on the analysis, conservation and restoration of architectural heritage.

The Institute of Theoretical and Applied Mechanics, Prague, CZ 04/2014 – 07/2014

Graduate Student, Supervisor: prof. Milos Drdacky

Evaluation of the Effects of Protection Treatment on Sandstone

- Testing in the laboratory and in the field various water repellent and consolidation products used for protection of historical stones' surfaces;
- Working with the European standard on Conservation of Cultural Heritage.

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WORK EXPERIENCE

Transport Building Company, Arkhangelsk, Russia

09/2009 – 08/2013

A private independent engineering, design-planning and consultancy company offering services in the area of new construction and renovation of timber, reinforced concrete and masonry buildings for residential and public use

Construction engineer on design projects and client technical service:

- Calculated and performed designs of new constructions of residential and public buildings, as well as their renovations;
- Performed designs of area development plans and construction sites layouts;
- Effectively met national and project standards, enforced policies and procedures;
- Carried out projects safety and quality assurance procedures and compliance and followed up with customers, when necessary, regarding projects and scopes.

PUBLICATIONS

- **Mordanova A.**, de Felice G. (submitted) “**Seismic Assessment of Archeological Heritage using Discrete Element Method**”,
- **Mordanova A.**, Meriggi P., Pantò B., De Santis S., de Felice G. (submitted) “**Distinct element modelling of the out-of-plane seismic behavior of masonry walls**”
- **Mordanova A.**, de Felice G., Genoese A. (2017) “**Assessment of the stability condition of the Claudio Aqueduct**”, *Conference: PROHITECH'17 - the 3rd International Conference on Protection of Historical Constructions*, Lisbon, Portugal
- **Mordanova A.**, De Santis S., de Felice G. (2016) “**State-of-the-Art Review of Out-of-Plane Strengthening of Masonry Walls with Mortar-Based Composites**”, *Conference: SAHC'16 - 10th International Conference on Structural Analysis of Historic Constructions*, Leuven, Belgium

RESEARCH REPORTS AND PROJECTS

- **Mordanova A.** (2014) “**Evaluation of the Effects of Protection Treatment on Sandstone**” (Master of Science Thesis) 4 months' research in the Institute of Theoretical and Applied Mechanics, Prague, Czech Republic
- **Mordanova A.**, Sengun, R., Ogrizovic, J., Toesca, M., Vanin, F. (2014) “**Church, Nursery and Tower of Clerigos (Porto) Survey, Analysis and Strengthening Design**”, (Master of Science Integrated Project), Portugal
- **Mordanova A.** (2009) “**Multi-story Residential House with the Built-in Premises of Public Appointment in Arkhangelsk**” (Engineering Thesis), Russia

ADDITIONAL INFORMATION

- Nationality: **Russian**
- Languages: **Russian (native), English (advanced), Italian (upper-intermediate)**
- Member of **YoCoCu** “Youth in Conservation of Cultural Heritage” and **COST Action TU1207** “Next Generation Design Guidelines for Composites in Construction”
- Tutor during examinations, Roma Tre University, 2015-2017

REFERENCES

Prof. Paulo Lourenço

Coordinator of the European Erasmus Mundus Advanced Master's in Structural Analysis of Monuments and Historical Constructions, Portugal e-mail: pbl@civil.uminho.pt

Prof. Gianmarco de Felice

Coordinator of the PhD school in Civil Engineering at Roma Tre University, Italy
e-mail: defelice@uniroma3.it