

PERSONAL INFORMATION

Roberta APOSTOLSKA



📍 Ss. "Cyril and Methodius" University in Skopje, Institute of earthquake engineering and engineering seismology, IZIIS, Todor Aleksandrov 165, Skopje, Republic of North Macedonia

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Sex Female | Date of birth 10/11/1967 | Nationality Macedonian

WORK EXPERIENCE

| | |
|-------------------------|--|
| October 2024 - present | Full professor, IZIIS |
| November 2023-present | Member of the UNESCO STEM Alliance and Core group for South-East Europe and the Mediterranean |
| November 2017- 2024 | Deputy Director of Science and Education, IZIIS |
| November 2023- present | Member of the Ss. "Cyril and Methodius" University Commission for Science |
| November 2017- 2024 | Head of IZIIS Doctoral study programme |
| November 2017- 2023 | Head of IZIIS Scientific Council for master study programme |
| 2023 | President of IZIIS Commission for accreditation of third cycle study programme in earthquake engineering |
| 2020-2024 | President of IZIIS Commission for self-evaluation |
| 2018-2024 | Member of IZIIS Commission for accreditation of second and third cycle study programmes in structural and earthquake engineering |
| 2014- present | IZIIS ERASMUS coordinator |
| June 2016 –2017 | Member of the University Ss Cyril and Methodius Senate |
| 2008-present | Member of numerous commissions for evaluation and public defence of master and doctoral thesis |
| 2008-present | Supervisor of 4 Doctoral students and 3 Master students |
| December 2014 – present | Professor |
| | Ss. "Cyril and Methodius" University in Skopje, Institute of Earthquake Engineering and Engineering |

Seismology, IZIIS
165, Todor Aleksandrov, Skopje, 1000, Republic of North Macedonia
www.iziis.edu.mk

* Teaching at IZIIS' postgraduate (master and doctoral) studies, elaboration of study programmes in earthquake and structural engineering in second and third cycles of education, offer consultancy services and expertise, leading and participation in national and international research projects, writing scientific papers & reports, participation in design of structures (structural engineering part), revision of technical design documentation, etc.

Business or sector Public university

June 2013 – December 2014 **Scientific / Technical Support Officer – Detached National Expert**

European Commission
Joint Research Centre, G0.5 European Laboratory for Structural Assessment
2740, Via E. Fermi, Ispra (VA), 21027, Italy
<http://elsa.jrc.ec.europa.eu/>

- Identified national contact points for the Eurocodes in the Balkan countries and liaise with the Balkan countries for the promotion and dissemination of the Eurocodes.
- Organization of two workshops in the Balkan countries, including contact of experts participating in the workshop.
- Involvement in activities of implementation, harmonization and further development of the Eurocodes in the EU Member States (so as to bring the acquired knowledge and expertise to the home country at the end of the stay at the JRC).
- Act as a contact with policy makers and the construction industry for dissemination and potential adoption of the Eurocodes in the Balkan countries.
- Contribute to the analysis of the Nationally Determined Parameters (NDPs) in view of their harmonization among countries of the same region.

Business or sector European institution

Associate Professor

December 2008 – June 2013

Ss. "Cyril and Methodius" University in Skopje, Institute of Earthquake Engineering and Engineering Seismology, IZIIS
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- Teaching at IZIIS' postgraduate (master and doctoral) studies, offer consultancy services and expertise, leading and participation in national and international research projects, writing scientific papers & reports, participation in design of structures (structural engineering part), revision of technical design documentation etc.

Business or sector Public university

December 2003 – December 2008

Assistant professor

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- Writing scientific papers & reports, performing drills on master courses, participation in design of structures (structural engineering part), preparation of technical design documentations, revision of technical design documentation, participation in research and application projects in the field of earthquake engineering etc.

Business or sector Public university

December 1992 – December 2003

Research assistant

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- Participation in design of structures (structural engineering part), preparation of technical design documentations, revision of technical design documentation, participation in research and application projects in the field of earthquake engineering etc.

Business or sector Public university

EDUCATION AND TRAINING

December 1995 - June 2003

Doctor of technical science in the field of earthquake engineering

Ss. "Cyril and Methodius" University in Skopje, Institute of Earthquake Engineering and Engineering Seismology, IZIS, Skopje, Republic of North Macedonia

- Nonlinear Analysis of Reinforced Concrete Structures; Seismic Design and Seismic Stability of Reinforced Concrete and Masonry Building Structures; Repair and Strengthening of Reinforced Concrete and Masonry Buildings; Damage Evaluation of Reinforced Concrete Buildings Exposed to Strong Earthquakes; Capacity Design Approach for Design of Earthquake Resistant Building Structures; Evaluation of Seismic Resistance of New and Existing RC Buildings; High Strength Concrete and its Application in Seismic Areas; Precast structures; Implementation of European Technical Regulations (Eurocodes) in the field of constructions; Performance-Based Methodologies in Seismic Engineering.

December 1992 - December 1995

Master of technical science in the field of earthquake engineering

Ss. "Cyril and Methodius" University in Skopje, Institute of Earthquake Engineering and Engineering Seismology, IZIS, Skopje, Republic of North Macedonia

- Nonlinear Analysis of Reinforced Concrete Structures; Seismic Design and Seismic Stability of Reinforced Concrete, Steel and Masonry Building Structures; Repair and Strengthening of Reinforced Concrete and Masonry Buildings; Damage Evaluation of Reinforced Concrete Buildings Exposed to Strong Earthquakes; Capacity Design Approach for Design of Earthquake Resistant Building Structures; Evaluation of Seismic Resistance of New and Existing RC Buildings; Finite Element Method; Vulnerability of Structures; Engineering Seismology; Dynamics of Structures; Experimental Mechanics; Soil Dynamics

October 1986 - July 1991

Bachelor degree, Graduated civil engineer

Ss. "Cyril and Methodius" University in Skopje, Faculty of Civil Engineering, Skopje, Republic of North Macedonia

- More than 40 courses during 5 years of study. Starting from Technical Mechanics, Civil Engineering Materials, Theory of Elasticity and Plasticity, Analysis of Structures, Reinforced Concrete Structures, Steel Structures, Timber Structures, Bridges, Dynamics of Structures, Theory of shells etc.

April 2018 (one week) **Study stay – international cooperation**

National University of Mexico – UNAM, Institute of Engineering, Mexico City, Mexico

June 2010 (one month) **Academic exchange – BASILEUS mobility grant**

University "La Sapienza", Structural Engineering Department, Rome, Italy

September 2009 (three weeks) **Study stay – international cooperation**

National University of Mexico – UNAM, Institute of Engineering, Mexico City, Mexico

May 2009 (one week) **Training school – sustainability of structures and structural intervention**

COST Actions C25&26, Thessaloniki, Greece

January 2003 (three weeks) **Third country training program on earthquake engineering**

Istanbul Technical University & Japan International Cooperation Agency- JICA, Istanbul, Turkey

September 2001 – November 2001 **Study stay**

Ruhr University, Department of Reinforced and Prestressed Concrete, Bochum, Germany

PERSONAL SKILLS

Mother tongue(s) Macedonian

Other language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|--|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1 | C1 | C1 | C1 | C1 |
| Italian | B1 | B1 | B1 | B1 | B1 |
| Croatian | C1 | C1 | B2 | B2 | B2 |
| Serbian | C1 | C1 | B2 | B2 | B2 |
| Replace with name of language certificate. Enter level if known. | | | | | |

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

Communication skills

- Excellent communication skills gained through years of experience as a teacher, as well as communication with external stakeholders
- Team worker – in various types of teams, (research teams, engineering project design teams)
- Capacity to present issues to an audience gained through numerous presentations on scientific conferences/workshops/seminars
- Capacity to communicate technical and specialised information
- Intercultural skills gained through assignment in European Commission

Organisational / managerial skills

- Managerial skills gained through seven years on position deputy director
- Managerial skills gained through leadership of projects
- Organizational and coordination skills gained through participation in organization of many scientific events (workshops, seminars, webinars, study trips, conferences, debates etc.) among which one was the European conference on earthquake engineering with more than 800 participants (2010)

Job-related skills

- Elaboration of master and doctoral study programmes in expertise
- Knowledge of regulations for design of structures
- Knowledge of European legislation in construction

Computer skills

- Proficient with Microsoft Office programmes
- Competent with sector specific software packages for structural analysis

ADDITIONAL INFORMATION

Conferences & Presentations

Attendance and presentations on international conferences in the past five years:

2024 – 18 WCEE, Milan, Italy
 2024 - EU-ASEAN Dialogue Instrument (E-READI) ASEAN Member States' Study Visit to the Joint Research Centre of the European Commission on the Eurocodes, Ispra, Italy
 2024 – UNESCO STEM Alliance Core group meeting, Venice, Italy
 2023 - UNESCO STEM Alliance Conference for South-East Europe and the Mediterranean, Venice, Italy
 2023 – EU-E-READI Eurocodes Regional workshop, Singapore
 2023 – fib conference, Istanbul, Turkey
 2022 – 3 ECEES, Bucharest, Romania
 2019 - COMPDYN 2019, Crete, Greece

Selected scientific projects in the past 5 years:

Projects

Principal Investigator/Expert/Consultant

1. Advancing Innovative STEM Education and Research in Earthquake Engineering toward Sustainable Environment: QUAKESAFE", within UNESCO and Huawei Technologies project Revitalizing STEM Education to Equip Next Generations with STEM Competency, (2024-2025), Coordinator.
2. RECONSTRUCT, Forensic Structural Engineering database for HEI and pilot course with innovative and interactive learning methods", ERASMUS + KA220-HED Cooperation partnerships in higher education (2024-2027), IZIIS Coordinator.
3. PARFORCE, Partnership for virtual laboratories in civil engineering", European Commission, ERASMUS+ Strategic Partnership, KA226- Partnership for Digital Education Readiness, ID: KA226-409D7578, (2021-2023), IZIIS Coordinator.
4. ESF-Science Connect on behalf of Research Foundation – Flanders, Consultancy services – scientific review of research project application (2021-2024).

Investigator

1. UCPM-2022-PP GA 101101255 – ISRA – Integrative strengthening of seismic risk awareness, (2022-2024).
2. UCPM-2020-PP-AG (Prevention and Preparedness Projects in Civil Protection and Marine Pollution) GA 101004830 – CRISIS - Comprehensive Risk assessment of basic services and transport Infrastructure (2020-2022).
3. UCPM-2020-KN-AG (Knowledge Network and Evidence-Based Policy) GA 101017950 – L2BR – Learn to be resilient (2021-2022).
4. World Bank-Integrating Seismic Risk Considerations into Energy Efficiency Investments in the Western Balkans, Activity 1_Baseline Definition, Technical Proposal Selection #1265632, 2020, Researcher and Expert.

Memberships

- Member of the TC/250 Mirror Committee TK 40 within Standardization Institute of the Republic of North Macedonia
- National delegate to the European Association of Earthquake Engineering, (EAEE)
- Macedonian Association of Earthquake Engineering, (MAEE)
- Member of the Supervising Board of Macedonian Association of Structural Engineering (MASE)

Links to the research profiles

[Roberta Apostolska](#)

[Roberta Apostolska - Google Scholar](#)

[Roberta Apostolska \(0000-0002-9422-6726\) - ORCID](#)