

CURRICULUM VITAE

Christiana A. Filippou
Postdoctoral researcher

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Personal

Post- Doctoral Marie Skłodowska-Curie Research Fellow

Department of Civil Engineering,
University of Minho (UMinho), Portugal

Post- Doctoral Researcher, Department of
Civil Engineering and Geomatics, Cyprus
University of Technology

Citizenship: Cypriot

Date of Birth: 09 March 1989

Gender: Female



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Short bio

My educational background is in Civil and Structural Engineering, with a focus on advanced construction materials and prefabricated strengthening systems, investigated through experimental research and numerical modelling for the assessment and retrofitting of existing RC structures. I completed my bachelor's degree in Civil and Environmental Engineering at the University of Cyprus (UCY) in 2011. I continued my studies at the National Technical University of Athens, where I earned my MSc in "Analysis and Design of Earthquake Resistant Structures" (ADERS). I then pursued a PhD in the Department of Civil Engineering and Geomatics at the Cyprus University of Technology. I received my PhD in June 2021 under the supervision of Professor Christis Z. Chrysostomou. The main subject of my doctoral thesis was the use of advanced composite materials, such as Textile-Reinforced Mortar (TRM), for the seismic retrofitting of masonry-infilled RC frame buildings.

Since April 2021, I have been a Postdoctoral Research Fellow in the fields of advanced construction materials and systems, experimental research, numerical modelling, seismic and energy upgrading of existing buildings, structural assessment, natural-hazard risk assessment, and structural monitoring.

From April 2021 until the end of May 2022, I worked as a Postdoctoral Researcher on the project entitled "Novel Integrated Approach for Seismic and Energy Upgrading of Existing Buildings" (SuperB). From the end of May 2022 until April 2023, I worked as a Postdoctoral Research Fellow on the project entitled "ISTOS" (Centre for Natural Hazard Management). From April 2023 until December 2023, I was a Research Fellow at the ERATOSTHENES Centre of Excellence (CoE), in the Resilient Society Department, focusing on the risk assessment of existing buildings and risk mitigation for natural hazards using satellite remote sensing. Since April 2023, I have been a Research Fellow at the University of Minho (Portugal), where I was awarded a Marie Skłodowska-Curie Actions (MSCA) Postdoctoral Fellowship under the supervision of Professor Paulo B. Lourenço and Associate Professor Daniel V. Oliveira, with the co-supervision of Dr Dionysios Bournas from the Joint Research Centre (JRC). The fellowship, with the acronym i-SeePanel, focuses on the development and large-scale experimental investigation of innovative prefabricated panels for the integrated seismic and energy upgrading of existing building envelopes, with particular emphasis on advanced construction materials and prefabricated retrofit systems, following a Life Cycle Thinking approach. Since early 2026, I have also been conducting postdoctoral research at the Cyprus University of Technology (CUT), involving interdisciplinary collaboration across the fields of Civil, Electrical, and Environmental Engineering. My current research focuses on structural health monitoring, including the use of optical fibre sensing technologies for real-time monitoring and assessment of structural behaviour. These activities complement my broader research interests in advanced construction materials and systems.

My postdoctoral research activities, as well as my PhD research completed in 2021, have resulted in a steadily growing publication record, with my work receiving more than 130 citations and reaching an h-index of 7 (please refer to my CV for the full list of publications).

My academic experience extends beyond research and includes several consecutive years of university teaching and module coordination. Since September 2021, I have served as Module Coordinator for several undergraduate courses at the Cyprus University of Technology (CUT), covering core areas of Civil and Structural Engineering, including Engineering Mechanics, Strength of Materials, Construction Materials, Structural Engineering, and Numerical Methods. In parallel, I have gained extensive laboratory teaching experience, particularly in Strength of Materials and Construction Materials, involving the organisation, supervision, and delivery of experimental testing activities. I have also taught at the University of Cyprus (UCY) and, since September 2022, have served as a Visiting Lecturer at Neapolis University Pafos, including

teaching at the postgraduate level in Earthquake Engineering and Risk Engineering and Risk Management.

Besides my research and academic experience, over the past years I have also gained professional experience as a design engineer and site engineer. I worked as a Site Engineer–Project Coordinator, planning and overseeing the rehabilitation and retrofitting of important buildings in Cyprus, including the “Restoration, Restructuring and Extension of the Limassol Public University Library” and “Limassol Agora”. In 2022, I also worked as a Technical Advisor (Site Engineer) on the rehabilitation projects of the “Tuzla Mosque” in Larnaca and the “Orounta Mosque” in Nicosia, both implemented under the United Nations Development Programme (UNDP). I am a member of the Cyprus Scientific and Technical Chamber (ETEK) and the Cyprus Association of Civil Engineers (SPOLMIK), where I have also participated in specialised committees since April 2021. In addition, I am a member of the Funraising Charity Organization and the Development Foundation TrakArt. In March 2022, I received the Cyprus University of Technology Female Personality Award, entitled “To Square the Circle”.

Education

Cyprus University of Technology (CUT)

March 2015– June 2021: *Ph.D. in Structural Engineering*

Ph.D. in Structural Engineering at the Department of Civil Engineering and Geomatics, Cyprus University of Technology, Limassol, Cyprus

Thesis Title: "Numerical study on the seismic retrofitting of masonry-infilled RC frames using textile-reinforced mortar (TRM)"

Supervisor: Christis Z. Chrysostomou, Professor

Member of Supervising Committee: Elia A. Tantele, Associate Professor, Georgios Constantinides, Professor, Ioannis Ioannou, Professor

National Technical University of Athens (NTUA)

September 2011-June 2012: *Master's degree in civil and structural engineering*

MSc in "Analysis and Design of Earthquake Resistant Structures" (ADERS) National Technical University of Athens, (NTUA)

Grade: 8.13 out of 10.

Core Courses:

- Pathology and Design of Earthquake Resistant Structures
- Optimum Structural Design
- Information Systems in Construction Management

- Recent Advances in Reinforced Concrete Design Models
- Geotechnical Engineering in the Design of Structures
- Experimental Earthquake Engineering
- Theory of Shells
- Analysis of Cultural Heritage Structures
- Retrofitting of concrete structures

Dissertation Title: "Seismic Evaluation of Reinforced Concrete Buildings"

Supervisor: Professor Vlas Kouskousis

University of Cyprus (UCY)

September 2007- June 2011: Bachelor's degree

**BSC (Hons) in Civil and Environmental Engineering, University of Cyprus (UCY),
Nicosia, Cyprus**

Grade: 7.29 out of 10.

High School

September 2004- June 2007

Apolyterio, Saint Spyridon Lyceum, Limassol, Cyprus

Grade: 19 8/12 out of 20

Post-doctoral research

- Postdoctoral Research Fellow at the Department of Electrical Engineering, Computer Engineering and Informatics, Cyprus University of Technology (CUT), within the Horizon Europe project “CYQCI”. Research activities focus on structural health monitoring and the application of optical fibre sensing technologies for real-time monitoring and assessment of RC structures behaviour. 2026
- Post- Doctoral Marie Skłodowska-Curie Research Fellow under the supervision of A. Prof. Daniel V Oliveira and Professor Paulo B Lourenço, and co-supervision by D. Bournas (Joint Research Center). Through this fellowship Innovative externally bonded precast **Panels**, aligned with Life Cycle Thinking, for the integrated **SE**ismic and **E**nergy upgrading of existing building envelopes will be developed and tested (referred to as i-SeePanel). 2024-2026
- Post-Doctoral Research Fellow at Eratosthenes Center of Excellence (CoE) in the Resilient Department focuses on Risk assessment of existing buildings and in risk mitigation for natural events using Satellite Remote Sensing 2023
- Post-Doctoral Research Fellow at Department of Civil Engineering and Geomatics, Cyprus University of Technology, under the program "ISTOS" Centre for natural hazard management 2022-2023
2023- 2022
- Post-Doctoral Research Fellow at the Cyprus University of Technology at the Department of Civil Engineering and Geomatics under the program "Novel integrated approach for seismic and energy upgrading of existing buildings" (SupERB) 2021-2022
The research project SupERB (INTEGRATED/ 0916/0004), was co-funded by the Cyprus Research and Innovation Foundation and the European Regional Development Fund, under the Integrated Projects call of the “RESTART 2016-2020” Programme for Research, Technological Development and Innovation.

Awards

Female personality award of Cyprus University of Technology entitled "To square the circle" 2022

Work Experience

- **Lazarou & Michael, Partners Architects & Designers** 2010-2011
- **ASD Sotiriou, Civil Engineer** 2011–2012
Plan, design and manage large construction projects. Modelling software, Scada Pro for designing reinforced concrete and steel buildings.
- **Land Registry of Limassol** 2013-2014
Reliable record of information about land and property in Limassol
- **P. HADJIPIERIS FIXICO LTD (Site Engineer)** 2016-2018
Planning and overseeing a specific project, " RESTORATION / RESTRUCTURING AND EXTENSION OF LIMASSOL PUBLIC UNIVERSITY LIBRARY".
- **Prosperity Construction Ltd (Site Engineer-Project coordinator)** 2019-2020
Planning and overseeing a specific project, "Limassol Agora", from beginning to end. responsibilities: balance the budget, keep track of supplies, collaborate with subcontractors, and ensure all regulations are met and permits acquired.
- **Domomatrix Ltd (Christos Vakanas)** 2020-2021
Plan, design and manage large construction projects.
- **P. HADJIPIERIS FIXICO LTD (Site Engineer-Technical Advisor)** 2022
Planning and overseeing for specific projects, "Tuzla Mosque" in Larkana and "Orounta Mosque" in Nicosia, under the United Nations Development Programme.

Memberships of formal institutions and societies

- **Cyprus Scientific and Technical Chamber (ETEK)** 2016
- **Cyprus Association of Civil Engineers, Limassol, (SPOLMIK)** 2013
Position: Member 2019-2021
Position: Treasurer 2022
Position: Member 2024-2027
- **Member of Editorial-journal Committee (Reviewing), Cyprus Association of Civil Engineers** 2021
- **Member of Committee on Earthquake Engineering, Cyprus Association of Civil Engineers** 2022
- **Member of Young Engineers Committee, Cyprus Association of Civil Engineers** 2022
- **Funraising Charity Organization, Limassol, Cyprus** 2015
Position: Board of directors' member 2015-2025
- **Development Foundation TrakArt** 2019
Position: Board of directors' member 2019-2022

Teaching assistant at CUT

- **Strength Assessment and Retrofitting of Structures, CIV501**
Department of Civil Engineering and Geomatics
Sept. to Dec. 2016, 2017, 2018, 2019, 2020
- **Earthquake engineering, CIV 326**
Department of Civil Engineering and Geomatics
Sept. to Dec. 2015, 2016, 2018, 2019
- **Concrete Structures I and II, CIV 321 and CIV 325,**
Department of Civil Engineering and Geomatics
Jan. to May 2016, 2017
- **Mathematics II, CIV 117**
Department of Civil Engineering and Geomatics
Jan. to May 2015 (one to one lesson eight hours per month)
- **Mathematics I, CIV 115**
Department of Civil Engineering and Geomatics
Sep. to Dec 2021 (one to one lesson eight hours per month)

Teaching at CUT

- **Technical Engineering, CEN 213**, Graduate course, at the Department of Chemical Engineering, ECTS:6, three hours per week
Sept. to Dec. 2021 (Module Coordinator)
Sept. to Dec. 2024 (Module Coordinator)
Sept. to Dec. 2025 (Module Coordinator)
Syllabus: Introduction to the fundamental principles of technical engineering. The following are in the field of technical engineering: (j) elements of statics (basic principles of Engineering, equilibrium equations, diagrams of internal forces of full bodies and truss bodies, inertial sizes of sections, etc.) and (ii) Elements of Engineering of Deformable Body and Strength of Materials (tensile, compressive, shear, stress and tensile stresses, Mohr cycle, principal stress and strains, static equations, Hooke's general law, torsion, shear, bending, etc.)
- **Strength of Materials, MEM 215 Graduate course**, at the Department of Mechanical Engineering and Materials Science and Engineering
ECTS:6, four hours per week
Jan. to May 2022 (Module Coordinator)
Syllabus: General principles of deformable bodies mechanics. Concept of stress and strain. Design of connections, rods, trusses. Displacements, normal and shear strain. Mechanical properties of materials. Axial loading. St. Venant theory. Stress-strain relations. Superposition principle. Statically indeterminate problems. Thermal stresses. Stress concentrations. Torsion of cylindrical shafts. Pure and combined bending. Determination of normal and shears stresses, displacements and elastic line. Combined loading. Generalized Hooke's law. Stress and strain transformation. Mohr circle.
- **Laboratory of Strength of Materials, MEM 215** Graduate course, at the Department of Mechanical Engineering and Materials Science and Engineering
ECTS:6, one and half hours per week
Jan. to May 2022 (Module Coordinator)
Laboratory Testing: Strain Gauges, Uniaxial tension test, Bending test, Torsion test, Thin cylindrical pressure vessel.

- **Laboratory of Numerical Methods in Engineering, MEM 329** Graduate course, at the Department of Mechanical Engineering and Materials Science and Engineering
ECTS:3, four hours per week
Sept. to Dec. 2022 (Module Coordinator)
Syllabus: Laboratory work on Elements of the theory of errors in calculations, basic iteration, Newton-Raphson, systems of linear equations, Curve fitting, Lagrange polynomials, splines., with assignments implementing algorithms using FORTRAN and/or MATLAB, with emphasis on engineering applications.
- **Integrated Design for Civil Engineers I, CIV 181, Graduate course, at the Department of Department of Civil Engineering and Geomatics**
ECTS:6, three hours per week
Sept. to Dec. 2023 (Module Coordinator)
Syllabus: Integration of knowledge from different disciplines, Solution of engineering problems through group participation, Methodology for solving engineering problems, Completion of a job within given deadlines, Collection and use of information from the library, Internet and other information sources, Preparation of a portfolio for a given project, Preparation of a report for a given project, Visual, oral and written presentation of a proposal, Contact with professionals in related disciplines.
- **Integrated Design for Civil Engineers II, CIV 281, Graduate course, at the Department of Department of Civil Engineering and Geomatics**
ECTS:6, three hours per week
Sept. to Dec. 2023 (Module Coordinator)
Syllabus: Integration of knowledge from different disciplines, Solution of engineering problems through group participation, Methodology for solving engineering problems, Completion of a job within given deadlines, Collection and use of information from the library, Internet and other information sources, Preparation of a portfolio for a given project, Preparation of a report for a given project, Visual, oral and written presentation of a proposal.

- **Strength of Materials, CIV 222, Graduate course, at the Department of Department of Civil Engineering and Geomatics**

ECTS:6, three hours per week

May. to Aug. 2023 (Module Coordinator)

Syllabus: Stress and strain under axial loading. Compatibility requirements. Stress tensor. Strain tensor. Constitutive equations. Plain stress and plain strain. Theories of failure. Torsion. Pure bending of symmetric beams. Elastoplastic bending. Skew and eccentric bending. Bending and shear. Bending of composite sections. Deformed elastic shape. Statically indeterminate structures. Energy methods (virtual work principle, complementary virtual work principle, unit load method, Castigliano's theorem, applications to statically indeterminate structures, Betti's theorem)

- **Sustainability and Environmental Concepts, CIV 215, Graduate course, at the Department of Department of Civil Engineering and Geomatics**

ECTS:6, three hours per week

Jan. to May. 2024 (Module Coordinator)

Jan. to May. 2026 (Module Coordinator)

Syllabus: Sustainability-Introduction, significance. Climate Change- Integrated Overview. Environmental Crisis- Global warming and severe global events and disruptions. Energy- The Impact and Role of Energy. Energy Solutions. Renewable Energy Sources. Energy Efficient Buildings and Energy Conservation. Water- Carbon and nitrogen cycles, water quality and water treatment principles. Wastewater- Evaluation and treatment fundamentals, wastewater reuse. Solid Waste- Management and material recycling. Air Quality Characteristics- Major air pollutants and sources of air pollution, effects on environment, air pollution control methods.

- **Construction Materials, CIV_221, Graduate course, at the Department of Department of Civil Engineering and Geomatics**

ECTS:6, three hours per week

Sept. to Dec. 2024 (Module Coordinator)

Syllabus: Introduction, General properties of materials, Measurement techniques. Mortars, cement, protection against heat and frost. Methods and materials for heat insulation. Protection against moisture: methods and moisture proof materials. Asphalt materials. Plastic materials. Sealing applications. Surface coating materials. Paints and adhesives. Filling materials: natural stones, marble, artificial stones and plaques.

Timber, glass, other materials. Inert materials, gravel, concrete, iron, steel and other metals. Soundproofing: methods and materials. Laboratory and blackboard exercises.

- **Steel Structures CIV 327, Graduate course at the Department of Civil Engineering and Geomatics**

ECTS:6, three hours per week

June. to August. 2025 (Summer Class _Module Coordinator)

Syllabus: Introduction to the technology of metal structures. Iron, steel, and aluminium. Properties of structural steels. Welding methods. Loadings in metal structures. Design criteria. Design of steel members subjected to tension, compression, bending, shear and/or torsion. Design of connections. Static and dynamic analysis of metal structures. Principles of design of metal buildings. Codes for the design of metal structures. Applications.

- **Prestressed Concrete CIV 421, Graduate course at the Department of Department of Civil Engineering and Geomatics**

ECTS:6, three hours per week

June. to August. 2025 (Summer Class _Module Coordinator)

Syllabus: Types of prestressing. Pre-tensioning and post-tensioning. Load balancing method. Applications of prestressed concrete. Steel and concrete in prestressed construction. Design for bending and axial loading. Design for shear, torsion, and punching. Statically-indeterminate prestressed structures. Design of anchorage zones. Partial prestressing. Prestressed concrete structures under seismic actions.

Laboratory CUT

- **Laboratory of Strength of Materials, MEM 215**

Department of Mechanical Engineering and Materials Science and Engineering,
Cyprus University of Technology (CUT)

January–May 2022 – Module Coordinator

ECTS: 6 | 1.5 hours per week

Laboratory teaching: Strain gauges, uniaxial tensile testing, bending testing, torsion testing, and testing of thin cylindrical pressure vessels.

- **Laboratory of Numerical Methods in Engineering, MEM 329**

Department of Mechanical Engineering and Materials Science and Engineering,
Cyprus University of Technology (CUT)

September–December 2022 – Module Coordinator

ECTS: 3 | 4 hours per week

Laboratory teaching: Error analysis, iterative methods, Newton–Raphson method, systems of linear equations, curve fitting, Lagrange interpolation and splines, including the implementation of numerical algorithms using FORTRAN and/or MATLAB for engineering applications.

- **Laboratory of Engineering Mechanics – Statics, CIV 116**

Department of Civil Engineering and Geomatics, Cyprus University of Technology (CUT)

January 2022–May 2026 – Laboratory Instructor

2 hours per week

Laboratory teaching: Shear force and bending moment, three-hinged arch, and roof truss.

- **Laboratory of Strength of Materials, CIV 222**

Department of Civil Engineering and Geomatics, Cyprus University of Technology (CUT)

January 2022–May 2026 – Laboratory Instructor

2 hours per week

Laboratory teaching: Modulus of rigidity, Young's modulus of elasticity, tensile testing of various metals, and material failure criteria.

- **Laboratory of Structural Analysis I, CIV 223**

Department of Civil Engineering and Geomatics, Cyprus University of Technology (CUT)

January 2022–May 2026 – Laboratory Instructor

2 hours per week

Laboratory teaching: Analysis of statically determinate and indeterminate structures, calculation of reactions and internal forces, influence lines, virtual work principle, structural deformations and displacements, force method, continuous beams, frames, and trusses.

CUT Infrastructure Research Group, Department of Civil Engineering and Geomatics

Experimental Research Activities Coordinator: Responsible for coordinating and supervising experimental research activities related to structural health monitoring, structural assessment, durability and performance of RC structures, corrosion, and infrastructure maintenance.

Teaching at University of Cyprus (UCY)

- **Construction Materials – Laboratory, CEE 233, Graduate course, at the Department of Department of Civil and Environmental Engineering**

ECTS:2.5, four hours per week

Jan. to May. 2024 (Module Coordinator)

Jan. to May. 2026 (Module Coordinator)

Aggregate sieve analysis, Density and water absorption of aggregates, Aggregate soundness, Los Angeles test, Micro-Deval test, Concrete mix design, Concreting and curing of concrete specimens, Mechanical properties of hardened concrete. Students are expected to: 1. Attend demos and actively participate in the execution of aggregate and concrete lab tests. 2. Familiarise themselves with the physicommechanical properties of aggregates and concrete. 3. Use European Norms in the execution of lab tests. 4. Become competent in concrete mix design based on aggregate properties. 5. Attain expertise in technical report writing.

Teaching at Neapolis University Pafos

- **Earthquake Engineering (II), SRELC506**, Course in MSc in Structural Robustness for Extreme Loading Conditions, at the Department of Civil Engineering, ECTS:7,5, three hours per week
Sept. to Dec. 2022 (Module Coordinator)
Syllabus: Basics, in brief, of Structural Dynamics in Multi Degree Of Freedom (MDOF) systems, Linear and non-linear methods of analysis related to Seismic Codes for MDOF systems in general. Explanation, of basic parameters involved, Displacement method of analysis. Application of the Push – Over analysis for MDOF systems, Methods of analysis related to Seismic Codes, for Timber structures, Masonry Structures, Reinforced concrete structures and steel structures. Modelling and conceptual design of structures to resist earthquake loads, Earthquake protection of content and installations in structures, appendices and attachments. Displacement and acceleration sensitive units. Modelling and use of Rayleigh method for the attachments, Soil – Structure interaction. Effect of the foundation embedment, Seismic design of special structures.
- **Risk Engineering & Risk Management, SRELC508**, Course in MSc in Structural Robustness for Extreme Loading Conditions, at the Department of Civil Engineering, ECTS:7,5, three hours per week
Sept. to Dec. 2022 (Module Coordinator)
Syllabus: Risk management processes for structures, key processes in the risk analysis domain, including identifying and evaluating relevant risks and their potential impact, key tools and techniques employed in the qualitative and quantitative analysis of risk, key processes in the Risk Response Planning domain, including developing risk response strategies and contingency plans, General aspects of risk assessment, Application of risk analysis tools to the analysis and design of structures, Application of Bayesian methods to a risk-based structural analysis, General overview of methodologies for assessment of damage to structures from accidental actions, Methods combining structural analysis with Bayesian handling of information related to accidental actions.

Other skills

IT & Computing

Proficient user of DIANA FEA a nonlinear analysis software for RC and masonry structures. Intermediate user of other analysis software i.e., SAP2000, ETABS and Robot. Intermediate user of the design software i.e SCADA PRO, FESPA and Femap with NX Nastran. Also intermediate user of programming languages such as: matlab

Languages

Greek – Native

English – Fluent

Referees

Christis Z. Chrysostomou, Professor, Department of Civil Engineering, Cyprus University of Technology, c.chrysostomou@cut.ac.cy

Elia Tantele, Associate Professor, Department of Civil Engineering, Cyprus University of Technology, elia.tantele@cut.ac.cy

Georgios Constantinides, Associate Professor, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, g.constantinides@cut.ac.cy

Nicholas Kyriakides, Assistant Professor, Department of Civil Engineering, Cyprus University of Technology, nicholas.kyriakides@cut.ac.cy.

Evangelos Akylas, Professor-Department Chair, Department of Civil Engineering, Cyprus University of Technology, evangelos.akylas@cut.ac.cy.

Vlasis Koumousis, Professor, Department of Civil Engineering, National Technical University of Athens, vkoum@central.ntua.gr.

Research Interest

- Earthquake Engineering
- Assessment and Retrofitting of Existing Structures and Monuments
- Structural Dynamics
- Composite materials for retrofitting of Existing Structures
- Computational Mechanics
- Computer-aided Analysis and Design
- Combined seismic and energy upgrading RC and masonry structures
- Life cycle analysis (LCA) of existing building before and after the retrofitting

The main subject of my research is the assessment of existing RC and masonry buildings under seismic loading and the enhancement in response after conventional and innovative retrofitting. My Ph.D. thesis focuses on the retrofitting of existing masonry-infilled Reinforced Concrete (RC) buildings and masonry structures using a new class of inorganic-matrix composite such as Textile Reinforced Mortar (TRM). The strong points of my research until now, are: TRM as composite material, the strengthening techniques for masonry structures, and the 2D detailed Finite Element Modeling of RC and masonry structures, combined seismic and energy upgrading RC and masonry structures .

Preparation of proposals

- Proposal as a project coordinator (HOST Organisation: ERATOSTHENES Centre of Excellence) for call **excellence hubs** under the pillar sustainable RTDI system**July 2021**
Score: 13.95 out of 15
- Proposal as a project coordinator in the project entitled "Thin Elements made of Textile Reinforced Mortar" for call **POST-DOCTORAL** Research Funding from Cyprus University of Technology (**September 2021**)
- Proposal as a project coordinator in the project entitled "How efficient home Renovation can be achieved?" (Host organization: ReCaLa) for call **Creation and initial development of startups with international orientation (Pre-seed)** under the pillar sustainable RTDI system (**February 2022**)
- Proposal for **Marie Skłodowska-Curie Actions (MSCA)** Postdoctoral Fellowships with title "Innovative precast panels for Integrated SEismic and Energy upgrading of existing buildings envelopes". Supervisors: Daniel Vitorino Castro Oliveira Professor

(Associate) at University of Minho, Portugal and Paulo B. Lourenco, Professor at the Department of Civil Engineering, University of Minho, Portugal

Score: 88 out of 100

List of publications

- **Filippou, C. A.**, ‘Seismic capacity assessment and retrofitting of reinforced concrete building’, Master Thesis, 2013.
- **Filippou, C. A.**, Kyriakides, N. C. and Chrysostomou, C. Z. (2018), ‘Finite element model of masonry-infilled RC frame’, published in 16th European conference on Earthquake Engineering, June 2018 Thessaloniki, Greece.
- **Filippou, C. A.**, Kyriakides, N. C and Chrysostomou, C. Z. (2019), ‘Numerical Modeling of Masonry-infilled RC Frame’, published in The Open Construction and Building Technology Journal, doi: 10.2174/187483680191301.
- **Filippou, C. A.**, Chrysostomou, C.Z and Kyriakides, N. (2019), ‘Numerical Modeling of Masonry-Infilled RC Frame Strengthened With TRM’, published in 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, June 2019, Crete, Greece.
- **Filippou, C. A.**, Kyriakides, N. C. and Chrysostomou, C. Z. (2020), ‘Numerical Modelling and Simulation of the In-Plane Response of a Three-Storey Masonry-Infilled RC Frame Retrofitted with TRM’, published in Advances in Civil Engineering, 2020, doi: 10.1155/2020/6279049.
- **Filippou, C. A.**, Kyriakides, N. and Chrysostomou, C. Z. (2020), ‘Effect of connection detail at interface of masonry- infilled RC frames retrofitted with TRM’, published in 17th World Conference on Earthquake Engineering, 17WCEE September 2020, Sendai, Japan.
- **Filippou, C. A.** and Chrysostomou, C. Z. (2020) ‘Analytical model for textile reinforced mortar under monotonic loading’, Construction and Building Materials Journal doi: 10.1016/j.conbuildmat.2020.120178.
- **Filippou, C. A.**, Furtado, A, Teresa, Kyriakides, N.C and Chrysostomou, C. Z. (2021) ‘Seismic retrofitting of masonry-infilled RC frames using textile reinforced mortars (TRM): an experimental and numerical studies overview’ published in Journal of Earthquake Engineering, 2022;00(00):1-25. doi:10.1080/13632469.2021.1988763.

- **Filippou, C. A**, Kyriakides, N. and Chrysostomou, C. Z. (2021), ‘Effect of the TRM reinforcement ratio on the lateral response of a three-story masonry-infilled RC frame retrofitted with TRM’ published in *fib* Symposium 2021, June, Portugal
- **Filippou Christiana A**, Kyriakides NC, Chrysostomou CZ. Numerical study of the seismic retrofitting of masonry-Infilled RC frames with openings using TRM. *Earthquake Engineering & Structural Dynamics* (November 2022) :1-30. doi:10.1002/eqe.3787.
- Stylianos S, **Filippou Christiana A***, Tantele E, Votsis R, Kyriakides N. The potential of using Satellite Remote Sensing for identifying the impact of climate change on existing reinforced concrete (RC) structures. Ninth International Conference on Remote Sensing and Geoinformation of the Environment, 3-5 April 2023, Ayia Napa, Cyprus, 2023.
- C Chrysostomou CZ, Renos V, Nicholas K, Rogiros I, **Christiana Filippou A***, Stathis B Cyclic Tests on Masonry-infilled RC frames Retrofitted with Textile-Reinforced Mortars Combined with Thermal Insulation. *fib* 2023
- Chrysostomou Christis Z, Renos A Votsis, Kyriakides Nicholas, **Christiana Filippou A*** (Corresponding author), Rogiros Illampas, and Bousias Stathis “Seismic and energy upgrading of existing buildings—full-scale testing of retrofitted masonry-infilled RC frames”, published in *Earthquake Engineering & Structural Dynamics*, 2023 DOI:
- **Filippou Christiana**, Renos A Votsis, Elia Tantele, Nicholas Kyriakides, “GIS-based seismic risk and loss estimation platform for Cyprus”, Tenth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2024), Paphos Cyprus, September, 2024
- Elia Tantele, Renos A Votsis, **Filippou Christiana**, Orestes Marangos, Nicholas Kyriakides, “Integration of remote sensing techniques in civil engineering” Tenth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2024), Paphos Cyprus, September, 2024
- Georgiou, E. S., Kyriakides, N. Chrysostomou, C. Z, P. Kotronis, **Filippou, C.A**, ‘Numerical Simulation of the Experimental Results of existing structures’, published in 16th European conference on earthquake engineering, June 2018, Thessaloniki, Greece.

Presentations in conferences

- 12th International Diana users meeting in Porto 11-12 October 2018, Porto, Portugal.

- DIANA FEA webinar with title ‘Finite Element Modeling of Masonry-infilled RC Frame with DIANA FEA (Version10.2)’, July 2019.
- 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2019), 24-26 June 2019, Crete, Greece.
- 4th Hellenic National Conference on Earthquake Engineering and Technical Seismology, 5-7 September 2019, Athens, Greece.
- CYPRUS RECTORS CONFERENCE, 1st Doctoral Colloquium, 7th December 2019, Nicosia, Cyprus.
- *fib* Symposium 2021 on Concrete Structures: New Trends for Eco-Efficiency and Performance, Portugal, June 2021(online).
- 17th World Conference on Earthquake Engineering, 17WCEE, September 13th to 18th 2021(online), Sendai, Japan.
- Ninth International Conference on Remote Sensing and Geoinformation of the Environment, 3-5 April 2023, Ayia Napa, Cyprus, 2023.
- *fib* Symposium 2023, Building for the future: Durable, Sustainable, Resilient", Istanbul, Turkey on 5-7 June, 2023
- Tenth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2024), Paphos Cyprus, September, 2024
- 13th National Congress of Seismology and Earthquake Engineering (SÍSMICA 2024), organized by the University of Minho (UMinho), in collaboration with the Portuguese Society of Earthquake Engineering (SPES), Guimarães, April 17 to 19, 2024.

Reviewer in Journals

- Bulletin of Earthquake Engineering
- Structures journal
- Construction and Building Materials