Lampros N. Koutas
Born in Amarousion (Athens) Greece – Feb. 1986
Address: Department of Civil Engineering, University of Thessaly
Pedion Areos, Volos, GR-38334, Greece
email: koutas@uth.gr

EDUCATION

2010 – 2015 **PhD** in Civil Engineering
Department of Civil Engineering, University of Patras, Greece

2008 – 2010 **Master of Science** on "Seismic Design of Structures"
Grade: 9.44/10.0 – Honors, Ranking: 1st/15
Department of Civil Engineering, University of Patras, Greece

2003 – 2008 **Diploma** of Civil Engineering (5-year course: 300 ECTS Credits)
Grade: 7.94/10.0 – Very Good, Ranking: 1st/193
Department of Civil Engineering, University of Patras, Greece

ACADEMIC POSITIONS

10/2018 – Present **Assistant Professor**
University of Thessaly, Department of Civil Engineering, Greece

09/2017 – 09/2018 **Visiting Research Associate**
University of Sheffield, Department of Civil and Structural Engineering, UK

03/2016 – 08/2017 **Post-Doctoral Research Associate**
University of Sheffield, Department of Civil and Structural Engineering, UK

04/2014 –03/2016 **Post-Doctoral Research Associate**
University of Nottingham, Department of Civil Engineering, UK

2008 - 2014 **Research Assistant (Fellow)**
University of Patras, Department of Civil Engineering, Greece

TEACHING EXPERIENCE

- Experience as faculty member in Higher Education Institutes

  Undergraduate modules in the Dept. of Civil Engineering at the University of Thessaly, Greece:
  2018 – Present Reinforced Concrete Structures I
  2018 – Present Reinforced Concrete Structures II
  2018 – Present Prestressed Concrete Structures
  2018 – 2019 Reinforced Concrete Special Topics
  2019 – Present Assessment and Retrofitting of Reinforced Concrete Structures

- Experience as Teaching Assistant in Higher Education Institutes

  University of Sheffield, Department of Civil & Structural Engineering, UK
  2016-2017 *MEng/MSc module*: Innovations in Structural Concrete

  University of Nottingham, Department of Civil Engineering, UK
  2015-2016 *Undergraduate Modules:* Reinforced Concrete Design
  Advanced Concrete Structures

  University of Patras, Department of Civil Engineering, Greece
  2008-2013 *Undergraduate Modules:* Mechanics of Materials I & II
  Construction Materials
  Composite Structures
  2008-2013 *Graduate module:* Advanced Materials & Seismic Retrofit Technologies

AWARDS, PRIZES AND FELLOWSHIPS

2019 **Top Peer Reviewer 2019** for placing in top % of reviewers in Cross-Field on "Publons" - Web of Science Group.

2014-2015 **Research Fellowship, Dean of Engineering Prize,** award for post doc research at the University of Nottingham (£35000)

2014 **Early Stage Researcher Travel Grant** provided by the European Cooperation in Science and Technology (COST) for participating in "The 4th International fib Congress" in Mumbai, India (2250 €)

2011-2014 **Three-year doctorate scholarship** co-funded by the by Greece and European Union (European Social Fund) in the framework of "Operational Programme: Education and Lifelong Learning" (45000 €)

2011 **Exceptional academic performance award** for the undergraduate studies, Technical Chamber of Greece

2010 **Athens Academy Award** in Class: Science ("Dimitrios Lampadarios") with a prize (3000 €)

2006 -2008 Three-year scholarship for the **exceptional performance as an undergraduate student** during the academic years 2005-2006, 2006-2007 and 2007-2008, **State Scholarships Foundation (I.K.Y.)**, Greece, (4500 €)

2006-2008 **Prized awards for ranking 1st** among all students during the academic years 2005-2006, 2006-2007 and 2007-2008, **State Scholarships Foundation (I.K.Y.)**, Greece, (900 €)

RESEARCH PROJECTS

RP.11 "THORAX: Next Generation of Advanced Composite Materials for Sustainable Retrofitting of Structures", 2021-2023, funded by the European Commission in the framework of HORIZON 2020 Action: Marie Skłodowska-Curie IF 2019, Total Budget 153085€. Role: Principal Investigator

RP.10 "Experimental and Analytical Investigation on Reinforced Concrete Elements Retrofitted with Advanced Materials", funded by the Research Committee (E.L.K.E.) of the University of Thessaly, 2020, University of Thessaly, Total Budget 1500€. Role: Principal Investigator

RP.9 "ReTyFiCo: Re-use of waste fibres in concrete construction", 2016-2018, funded by Innovate UK: Newton Fund – Brazil-UK Collaborative Industrial Research and Development Competition, University of Sheffield, Collaborative project £288k (£120k for the University of Sheffield) Role: Investigator (Research Associate & Technical Manager)

RP.8 "Anagennisi: Innovative Use of all Tyre Components in Concrete" funded by the European Commission (FP7), 2014-2017, University of Sheffield, Collaborative project £4.5m (£600k for the University of Sheffield). Role: Investigator (Research Associate & WP Leader)

RP.7 "Clean steel: Re-use of steel cord from tyres as reinforcement in sustainable construction", TSB – Innovate UK, 2014-2016, University of Sheffield, Collaborative project £434k (£175k for the University of Sheffield). Investigator (Research Associate & Technical Manager)

RP.6 "Innovative Textile-Based Composites for Sustainable Strengthening of Existing Concrete Structures" funded by the University of Nottingham in the framework of the HERMES Fellowships, 2015, University of Sheffield, £31k. Role: Investigator (Research Associate)

RP.5 "Innovative Textile-Based Composites for Construction" funded by the University of Nottingham in the framework of the "Dean of Engineering Prize" post-doctoral scholarships,

2014-2015, University of Nottingham, £35k. Role: Investigator (Research Associate)

RP.4 Use of Innovative Techniques and Materials for the Seismic Retrofitting of RC Masonry Infilled Frames. Co-financed by Greece and the European Union (European Social Fund) in the framework of "Operational Programme: Education and Lifelong Learning", 2010-2014, University of Patras, 45k €. Role: Investigator (Research Assistant)

RP.3 "Mechanical Behaviour of Anchors in Strengthening of Concrete Structures with FRP" funded by FYFE Europe, 2008-2010, University of Patras, 11k €. Role: Investigator (Research Assistant)

RP.2 "The Integrated Safe and Smart Built Concept, I-SSB IP", European Commission, 6th Framework Programme (FP6), 2007-2010, University of Patras, 600k € (121k € for the Univ. of Patras). Role: Investigator (Research Assistant)

RP.1 "European Network for Composite Reinforcement, EN-CORE", Marie Curie Research Training Network, European Commission, 6th Framework Programme (FP6), 2005-2008, University of Patras, 1.67m € (148k € for the Univ. of Patras). Role: Investigator (Early Stage Researcher).

SCIENTIFIC COMMITTEES MEMBERSHIPS

2013 - Present	Member of the Scientific Committee *ACI440-0F – FRP-Repair-Strengthening* of the American Concrete Institute (ACI)
2016 - Present	Member of the Scientific Committee *fib* Task Group 5.1: «FRP Reinforcement for Concrete Structures», of the International Federation of Concrete (*fib*)
2014 - 2017	Member of the Scientific Task Group: COST Action TU1207, Next Generation Design Guidelines for Composites in Construction: WG3-Strengthening Applications.
2016-2017	Member of the Scientific Committee of the 16th World Conference on Earthquake Engineering, Santiago, Chile, January 2017

INTERNATIONAL SOCIETIES AND INSTITUTES MEMBERSHIPS

2014 – Present	The International Federation for Structural Concrete (*fib*)
2012 – Present	International Institute for FRP in Construction (IIFC)
2008 – Present	Greek Society of Civil Engineers
2008 – Present	Technical Chamber of Greece
2015 – 2017	American Society of Civil Engineers (ASCE)
2009 – 2015	American Concrete Institute (ACI) – Αμερικανικό Ινστιτούτο Σκυροδέματος

CONSULTANCY / PROFESSIONAL EXPERIENCE

2019	Port of Volos Authorities - "In-situ concrete quality assessment of old reinforced concrete building at the Port of Volos"
2019	Port of Volos Authorities - "In-situ concrete quality assessment of prestressed concrete bridge at the Port of Volos".
2015-2016	ROLLS-ROYCE - "Design and V-block Testing of Uncoated PAT Mounts used in Submarines"
2014-2015	SYM-WALL BUILDING TECHNOLOGIES Ltd - "Use of Sym-Wall Panel as a Floor Panel Element"

INVITED SPEAKER IN SEMINARS

- "Seismic retrofitting of masonry infilled RC frames with textile-reinforced mortars", European Commission, Joint Research Centre, Ispra, Italy, 10 July 2019
- "New Greek Concrete Technology Code 2016: Seminar for practitioners and civil engineers", Interbeton S.A. Xenia Hotel, Volos, Greece, 8 May 2019
- "Textile-reinforced mortar for strengthening and seismic retrofitting of existing concrete structures", School of Engineering, The University of Edinburgh, UK, 11 April 2014
- "Seismic retrofitting of masonry infills with advanced composite materials", Materials, Mechanics and Structures Research Division, Faculty of Engineering, The University of Nottingham, UK, 25 November 2014

REVIEWER ACTIVITY

- International Journals:

Reviewer of 133 papers in 26 International Journals (sorted by publisher's name):
(verified record: https://publons.com/researcher/1595542/lampros-koutas/peer-review/)

(ACI) ACI Special Publications – (1)
(ASCE) Journal of Composites for Construction – (13)
(ASCE) Journal of Materials in Civil Engineering – (2)
(ASTM) Advances in Civil Engineering Materials – (1)
(Elsevier) Composites Part B: Engineering – (4)
(Elsevier) Composite Structures – (4)
(Elsevier) Construction and Building Materials – (27)
(Elsevier) Engineering Structures – (25)
(Elsevier) Journal of Building Engineering – (1)
(Elsevier) Measurement – (1)
(Elsevier) Structures– (6)
(Hindawi) Advances in Civil Engineering – (4)
(IABSE) Structural Engineering International – (2)
(ICE Proceedings) Structures and Buildings – (2)
(MDPI) Applied Sciences – (2)
(MDPI) Materials – (1)
(RILEM) Materials and Structures – (3)
(SAGE) Journal of Reinforced Plastics and Composites – (1)
(Springer) Arabian Journal for Science & Engineering – (1)
(Springer) Bulletin of Earthquake Engineering – (15)
(Springer) Earthquake Engineering and Engineering Vibration – (1)
(Springer) International Journal of Concrete Structures and Materials – (2)
(Taylor & Francis) Journal of Earthquake Engineering – (5)
(Techno-Press) Advances in Concrete Construction – (1)
(Wiley) Earthquake Engineering & Structural Dynamics – (7)
Disaster Advances – (1)

- International Conferences:

- 16th World Conference on Earthquake Engineering (Santiago, Chile, January 2017)

RESEARCH PROPOSALS EVALUATION

Funding Organisations – (Number of evaluated proposals)

- Research Foundation - Flanders (FWO) – (1)
- Research Committee of National Technical University of Athens – (1)

RESEARCH PERFORMANCE INDICES (last update: 28/08/2020)

Source	Citations	h-index
Google Scholar	807	14
Scopus	623 (excl. self-citations of all authors: 497)	13
Web of Science (*beta)	473	12

LIST OF PUBLICATIONS

A. Papers in International Peer-Reviewed Journals

(IF 2019 source: https://jcr.clarivate.com/JCRJournalHomeAction.action)

A.17 Koutas LN, and Bournas DA (2020). "Textile-Reinforced Mortar as Strengthening System for Two-Way RC Slabs with Cut-out Openings", *Composites Part B: Engineering,* Under Review

A.16 Koutas LN, and Bournas DA (2020). "Confinement of Masonry Columns with Textile-Reinforced Mortar Jackets", *Construction and Building Materials,* Vol. 258 [IF 2019: 4.419]

A.15 Koutas LN, and Bournas DA (2019). "Out-of-Plane Strengthening of Masonry-Infilled RC Frames with Textile-Reinforced Mortar Jackets", *Journal of Composites for Construction,* Vol. 23, No 1, 04018079 [IF 2019: 2.896]

A.14 Koutas LN, Tetta Z, Bournas DA, and Triantafillou TC (2019). "Strengthening of Concrete Structures with Textile Reinforced Mortars: State-of-the-Art Review", *Journal of Composites for Construction,* Vol. 23, No 1, 03118001 [IF 2019: 2.896]

A.13 Alsaif A, Koutas L, Bernal SA, Guadagnini M, and Pilakoutas K (2018). "Mechanical Performance of Steel Fibre Reinforced Rubberised Concrete for Flexible Concrete Pavements", *Construction and Building Materials,* Vol. 172, pp. 553-543 [IF 2019: 4.419]

A.12 Kariou FA, Triantafyllou SP, Bournas DA, and Koutas LN (2018). "Out-of-Plane Response of Masonry Walls Strengthened using Textile-Mortar System", *Construction and Building Materials*, Vol. 165, pp. 769-781 [IF 2019: 4.419]

A.11 Tetta Z, Koutas LN, and Bournas DA (2018). "Shear Strengthening of Concrete Members with TRM: Effect of Shear Span-to-Depth Ratio, Material and Amount of External Reinforcement", *Composites Part B: Engineering*, Vol. 137, pp. 184-201 [IF 2019: 7.635]

A.10 Raoof S, Koutas LN, and Bournas DA (2017). "Textile-Reinforced Mortar (TRM) versus Fiber-Reinforced Polymers (FRP) in Flexural Strengthening of RC Beams", *Construction and Building Materials*, Vol. 151, pp. 279-291 [IF 2019: 4.419]

A.9 Koutas L, Bournas DA (2017). "Flexural Strengthening of Two-Way RC Slabs with Textile-Reinforced Mortar (TRM): Experimental Investigation and Design Equations", *Journal of Composites for Construction,* Vol. 21, No1, 04016065 [IF 2019: 2.896]

A.8 Raoof S, Koutas L, and Bournas DA (2016). "Bond between textile-reinforced mortar (TRM) and concrete substrates: Experimental investigation", *Composites Part B,* Vol. 98, pp. 350-361 [IF 2019: 7.635]

A.7 Tetta Z, Koutas L, and Bournas DA (2016). "Shear Strengthening of Full-Scale RC T-beams using Textile-Reinforced Mortar and Textile-based Anchors", *Composites Part B: Engineering,* Vol. 95, pp. 225-239 [IF 2019: 7.635]

A.6 Tetta Z, Koutas L, and Bournas DA, (2015). "Textile-Reinforced Mortar (TRM) versus Fiber-Reinforced Polymers (FRP) in Shear Strengthening of Concrete Beams", *Composites Part B: Engineering*, Vol. 77, pp. 338-348 [IF 2019: 7.635]

A.5 Koutas L, Triantafillou TC, and Bousias SN, (2015). "Analytical Modeling of Masonry-Infilled RC Frames Retrofitted with Textile-Reinforced Mortar", *Journal of Composites for Construction*, Vol. 19, No. 5, 04014082 [IF 2019: 2.896]

A.4 Koutas L, Bousias SN, and Triantafillou TC, (2015). "Seismic Strengthening of Masonry Infilled RC Frames with TRM: Experimental Study", *Journal of Composites for Construction*, Vol. 19, No. 2, 04014048 [IF 2019: 2.896]

A.3 Skafida S, Koutas L, and Bousias SN, (2014). "Analytical Modeling of Masonry Infilled RC Frames and Verification with Experimental Data", *Journal of Structures*, Vol. 2014, Article ID 216549, doi:10.1155/2014/216549 [IF 2019: n/a]

A.2 Koutas L, Pitytzogia A, Triantafillou TC, and Bousias SN. (2014). "Strengthening of Infilled Reinforced Concrete Frames with TRM: Study on the Development and Testing of Textile-based Anchors", *Journal of Composites for Construction*, Vol. 18, No. 3, SPECIAL ISSUE: 10th Anniversary of IIFC, A4013015 [IF 2019: 2.896]

A.1 Koutas L, and Triantafillou TC. (2013). "Use of Anchors in Shear Strengthening of Reinforced Concrete T-beams with FRP", *Journal of Composites for Construction*, Vol. 17, No.1, pp. 101-107 [IF 2019: 2.896]

B. Papers in International Conference Proceedings

B.14 Koutas L, and Bournas D. (2019). "Use of Textile-Reinforced Mortar Jackets to Improve the Out-of-Plane Performance of Masonry Infill Walls", 7th International Conference on Computational Methods in Structural Engineering Dynamics and Earthquake Engineering, Chania, Greece, 24-26 June 2019

B.11 Koutas L, and Bournas D. (2018). "Use of Textile-Reinforced Mortar Jackets to Improve the Out-of-Plane Performance of Masonry Infill Walls", *16th European Conference on Earthquake Engineering (16 ECEE)*, Thessaloniki, Greece, June 2018

B.10 Kariou A, Triantafyllou S, Bournas D, and Koutas L. (2017). "Out-of-plane behaviour of TRM strengthened masonry walls", *4th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2017)*, Zurich, Switzerland, September 2017

B.9 Raoof S, Koutas L, and Bournas D. (2017). "Effectiveness of TRM versus FRP in flexural strengthening of RC beams", *Advanced Composites in Construction (ACIC 2017)*, Sheffield, UK, September 2017

B.8 Tetta Z, Koutas L, and Bournas D. (2017). "Effect of Shear Span-to-depth Ratio in Concrete Beams strengthened in Shear with Textile-Reinforced Mortar", *Advanced Composites in Construction (ACIC 2017)*, Sheffield, UK, September 2017

B.7 Koutas L, Triantafillou TC, and Bousias SN, (2015). "Seismic Retrofitting of a Three-Story Masonry-Infilled RC Frame with Textile-Reinforced Mortar (TRM): Experimental Behavior and Analytical Modeling", *12th International Conference on FRP for Reinforced Concrete Structures (FRPRCS-12)*, Nanjing, China, December 2015.

B.6 Tetta Z, Koutas L, Bournas DA, Salihi B, (2015). "Shear Strengthening of RC Beams using Textile Reinforcement in Cement or Epoxy Based Matrices", *3rd International Conference on Textile-Reinforced Concrete (3rd ICTRC)*, Aachen, Germany, June 2015.

B.5 Koutas L, Bousias SN, and Triantafillou TC, (2015). "Textile-Reinforced Mortar as Retrofitting Material of Masonry-Infilled RC Frames", *3rd International Conference on Textile-Reinforced Concrete (3rd ICTRC)*,Aachen, Germany, June 2015.

B.4 Koutas L, Bousias SN, and Triantafillou TC, (2014). "Retrofitting Masonry Infills in Substandard RC Structures via TRM Jackets", *11th International Congress on Advances in Civil Engineering (ACE 2014)*, Istanbul, Turkey, 21-25 October 2014.

B.3 Koutas L, Bousias SN, and Triantafillou TC, (2014). "In-Plane Behavior of a Three-Storey Masonry Infilled RC Frame", *The Fourth International fib Congress*, Mumbai, India, 10-14 February 2014.

B.2 Koutas L, Pitytzogia A, Triantafillou TC, and Bousias SN, (2013). "Strengthening of Infilled Reinforced Concrete Frames with Textile-Reinforced Mortar (TRM): A Study on the Development and Testing of Textile-based Anchors", *11th International Conference on FRP for Reinforced Concrete Structures (FRPRCS-11)*, Guimaraes, Portugal, 26-28 June 2013.

B.1 Koutas L, and Triantafillou TC, (2013). "Use of Anchors in Shear Strengthening of Reinforced Concrete T-beams with FRP", *Proc. of the 6th (CICE 2012)*, Rome, Italy, 13-15 June 2012.

C. Papers in National Conference Proceedings

C.3 Wang Z, Escolano-Margarit D, Guadagnini M, Koutas L, and Pilakoutas K. (2018). "Shear Behaviour of Confined and Unconfined Rubberised Concrete", 18th National Conference on Concrete Structures, Athens, Greece, March 2018

C.2 Raffoul S, Garcia R, Koutas L, Athanasopoulou S, and Pilakoutas K. (2018). "Use of Waste Tyre Rubber for High-Deformability Concrete", 18th National Conference on Concrete Structures, Athens, Greece, March 2018

C.1 Koutas L., Triantafillou T.C., Bousias E. (2016), "Seismic Retrofitting of Masonty-Infilled Frames with Textile-Reinforced Mortar Jackets". 17th National Conference on Concrete Structures, Thessaloniki, Greece, November 2016

D. Papers in National Scientific Journals

D.2 Koutas L, and Moschas F, (2008). "1st and 2nd Level Post-Earthquake Inspection and Evaluation of Earthquake Damaged Buildings – Part B", Bulletin of Greek Society of Civil Engineers, GSCE, No 364, pp. 32-36 (in Greek).

D.1 Koutas L, and Moschas F, (2008). "1st and 2nd Level Post Earthquake Inspection and Evaluation of Earthquake Damaged Buildings – Part A", Bulletin of Greek Society of Civil Engineers, GSCE, No 363, pp. 28-35 (in Greek).

E. Dissertations

E.2 Koutas L, (2015). "Use of Innovative Techniques and Materials for the Seismic Retrofitting of RC Masonry Infilled Frames: An Experimental and Analytical Study", PhD Dissertation, University of Patras, Greece (in Greek).

E.1 Koutas L, (2010). "Shear Strengthening of Reinforced Concrete T-beams with Composite Materials and Spike Anchors", MSc Dissertation, University of Patras, Greece (in Greek).