



## Konstantinos Katakalos

Born in 1981 in Thessaloniki, Greece. He is a Professional Civil Engineer and he is the CEO of a Construction Company. He is a PhD candidate at the department of Civil Engineering of Aristotle University of Thessaloniki.

His expertise is Earthquake Engineering, with emphasis in:

- foreshock and aftershock controls,
- repair and strengthening of existent buildings
- fiber reinforced polymers FRP (carbon, steel, glass).

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### Education:

- **PhD Candidate at Aristotle University of Thessaloniki**

(2006-present) Aristotle University of Thessaloniki, Greece

Dissertation Title: Investigation of earthquake behavior of structural members after repair and strengthening

- **M.Sc. in Civil and Environmental Engineering (GPA 4.0/4.0 with honors) (01/2007 - 05/2008)**

University of Massachusetts Dartmouth (UmassD), U.S.A.

Thesis Title: Flexural performance under static and fatigue loading of reinforced concrete beams strengthened with Steel Reinforced inorganic Polymer (SRiP)

- **M.Sc. in Design of Earthquake Resistant Structures, (A.S.T.E. GPA 8.0/10.0)**

(09/2005 – 10/2006)

Aristotle University of Thessaloniki, Greece

Thesis Title: Experimental and numerical investigation of a Hybrid Anchoring Device (HAD) for flexural strengthening, using Fiber Reinforced Polymers

- **Civil Engineering Degree (A.U.Th.) GPA 7.82/10 / (09/2000 –06/2005)**

Aristotle University of Thessaloniki, Greece

Thesis Title: Foreshock and aftershock design of Agia Paraskevi Church after the 1995 Kozani earthquake. Proposal and design of its repair and strengthening.  
Graduated among 3% of class June/2005

### Professional Experience:

- 2005-present: **Professional Civil Engineer**

- 2002-present: **CEO of Building Company “B.KATAKALOS & SONS”**

- 1998-present: **Involvement in the construction of several buildings in the area of Thessaloniki:**

Neapoli Thessaloniki

Panorama Thessaloniki

Chortiatis Thessaloniki

- 2009 – 2010. Renovations, internal decorations in apartments and business areas
- 2010 – present. Construction and supervision of a 4-story building in Neapoli, Thessaloniki (Grigoriou E' 3 str.)
- 2006-2007. Construction and supervision of a 4-story building in Neapoli, Thessaloniki (Amasias 6 str.)
- 2005 – 2006. Construction and supervision of a 3- story home building in Chortiatis, Thessaloniki

- 2004 – 2005. Construction and supervision of a 5-story building in Neapoli, Thessaloniki (Meliteos 12 str.)
- 2003 – 2005. Construction and supervision of 2 2-story building with underground parking in Thessaloniki, Panorama (K. Kotta 30 str.)
- 2003 – 2004. Construction and supervision of a 6-story building with a 2-story underground parking in Thessaloniki, Sykies (Karolou Koun str.)
- 2001 – 2002. Construction and supervision of a 5-story building in Neapoli, Thessaloniki (Maditou 55 str.)
- 2000 – 2001. Construction and supervision of a 4-story building in Neapoli, Thessaloniki (Bermiou 45 str.)
- 1998 – 1999. Construction and supervision of a 3-story building with underground storage and ground shops in Neapoli, Thessaloniki (Amasias 2 str.)

**Research &  
Teaching  
Experience:**

- 2010 – present: Aristotle University of Thessaloniki  
**Research Assistant** at the dpt. of Civil Engineering (A.U.Th.)  
Title: Investigation of the behavior of RC infill frames under cyclic horizontal loadings – Investigation of the connection of infill with the frame and its jacketing.  
PI: Pr. G. C. Manos – Funded by OASP
- 2010 – present: Aristotle University of Thessaloniki  
**Research Assistant** at the dpt. of Civil Engineering (A.U.Th.)  
Title: Shear strengthening of RC continuous beams strengthened with Steel Fiber Reinforced Polymers.  
PI: Pr. G. C. Manos – Funded by OASP
- 2009 – present: Aristotle University of Thessaloniki  
**Teaching Assistant** at the dpt. of Civil Engineering (A.U.Th.)  
2008-present: Aristotle University of Thessaloniki  
**Research Assistant** at the dpt. of Civil Engineering (A.U.Th.)  
Title: Development of a ductile Anchoring Device for FRPs.  
PI: Pr. G. C. Manos
- 01/2010 – 08/2010: Aristotle University of Thessaloniki  
**Research Assistant** at the dpt. of Civil Engineering (A.U.Th.)  
Instrumentation with accelerometers of Acropolis Museum  
PI: Pr. G. C. Manos
- 01/2008 - 05/2008: University of Massachusetts Dartmouth (UmassD),  
**Visiting Lecturer** at the dpt. of Civil & Environmental Engineering  
Teaching Courses: Mechanics of Materials lab.  
Construction of Materials lab.
- 2007 - 2008: University of Massachusetts Dartmouth (UmassD),  
**Research Assistant** at the dpt. of Civil & Environmental Engineering  
Title: Restoration of reinforced concrete beams with the use of fire resistant fiber reinforced polymer  
PI: Assoc. Prof. C. Papakonstantinou
- 2007 - 2008: University of Massachusetts Dartmouth (UmassD), **Teaching Assistant**  
Assisted Courses: Mechanics of Materials  
Mechanics of Materials lab.  
Design of Steel Structures  
Design of R/C Structures  
Construction of Materials lab.
- 2005 – 2006: Aristotle University of Thessaloniki  
**Research Assistant**

Title: Experimental and numerical investigation of a Hybrid Anchoring Device (HAD) using Fiber Reinforced Polymers  
PI: Pr. G. C. Manos

**International  
Journal  
Publications:**

- **Konstantinos Katakalos** and Christos G. Papakonstantinou, "Fatigue of reinforced concrete beams strengthened with steel reinforced inorganic polymers", *Journ. of Comp. Constr. (ASCE)*, 13-2, 103-112, 2009
- Christos G. Papakonstantinou and **Konstantinos Katakalos**. "Mechanical behavior of high temperature hybrid carbon fiber/titanium laminates", *Journ. Eng. Mat. Technol. (ASME)*, 131-2, 2009
- Christos G. Papakonstantinou and **Konstantinos Katakalos**. "Flexural Behavior of Reinforced Concrete Beams strengthened with a hybrid retrofit system", *Structural Engineering and Mechanics*, Techno Press, 31-5, 2009
- **Konstantinos Katakalos**, George Manos and Vladimiro Kourtides. "Study of a Hybrid Anchoring Device (HAD) aimed to enhance the Flexural Capacity and Ductility of a R/C Bridge-Type Pier Specimen Strengthened externally with CFRP Layers", *ASCE Journal of Composites for Construction (Under review)*.
- Christos G. Papakonstantinou and **Konstantinos Katakalos**, "Flexural performance of reinforced concrete beams strengthened with steel reinforced organic and inorganic polymers", *ASCE Journal of Composites for Construction (under review)*.

**International  
Conference  
Publications:**

- G. C. Manos, **Konstantinos Katakalos**, V. Kourtides. «Investigation of a cFRP anchorage system for the flexural behavior of Vertical Members» 16<sup>o</sup> Concrete Conference, Pafos – Cyprus, 21-23 October, 2009.
- G. C. Manos, **Konstantinos Katakalos**, V. Kourtides, C. Mitsarakis. «Investigation of a Hybrid Anchoring System for Strengthening RC members using FRPs » 3<sup>o</sup> National Conference of Earthquake Engineering and Technical Seismology, 5–7 November, 2008
- **Konstantinos Katakalos**, George Manos, V. Kourtides. " Study of the Anchorage of Carbon Fiber Reinforcing Plastics (CFRP) Utilized to Upgrade the Flexural Capacity Of Vertical R/C Members" 14<sup>th</sup> World Conference on Earthquake Engineering, October 12-17, 2008, Beijing, China
- **Konstantinos Katakalos** and Christos G. Papakonstantinou. "Innovative Retrofit System with Nano-Constituent Materials for Reinforced Concrete". *NANO 2008, 9th International Conference on Nanostructured Materials*, Rio de Janeiro, Brazil, June 01-06, 2008.
- Christos G. Papakonstantinou and **Konstantinos Katakalos**. "A Hybrid Strengthening System for the Rehabilitation of Reinforced Concrete," *SAMPE '08 in Long Beach, CA* May 18-22, 2008.
- Christos G. Papakonstantinou and **Konstantinos Katakalos**. "Fireproof strengthening system for rehabilitation of reinforced concrete", 4th International Conference on Structural Defects and Repair, Aveiro, Portugal, 26-28 June 2008.
- Christos G. Papakonstantinou and **Konstantinos Katakalos**. "Durability of reinforced

concrete beams strengthened with a fireproof strengthening system", 4th International Conference on Structural Defects and Repair, Aveiro, Portugal, 26-28 June 2008.

- **Konstantinos Katakalos**, George Manos, V. Kourtides and C. Mitsarakis. Upgrading the Flexural Capacity of a Vertical R/C Member using Carbon Fiber Reinforcing Plastics Applied Externally and Anchored at the Foundation” 8<sup>th</sup> International Conference on FRPRCS-8, Patra July 16-18, 2007

**Patents:**

- 2010: Construction Structure with Strengthened Device and Method  
Patent No. 09386037.7 – 2303

**Awards:**

- 2008: Graduation with Honors from MSc program of the dpt. Of Civil and Environmental Engineering from the University of Massachusetts Dartmouth (UmassD),
- 2007-2008: Scholarship from University of Massachusetts Dartmouth (UmassD), for the fulfillment of MSc program.
- 2004: Scholarship of State Scholarship Foundation (IKY) during the undergraduate program at A.U.Th.

**Other**

**Activities:**

- Member of Technical Chamber of Greece (TEE)
- Member of the Society of Civil Engineers in Greece (SCEG)
- Member of the Society of Civil Engineering Students of Greece (SSCEG)
- Member of the American Society of Civil Engineers (ASCE)
- Member of the American Concrete Institute (ACI)
- Member of the Hellenic Society of Earthquake Engineering (HSEE)
- Member of the Hellenic Scientific Company of Concrete Research (HSCCR)

**Foreign Languages:**

- Greek,
- English (Proficiency),
- French (Sorbonne 1).

**Software Experience :**

- WINDOWS
- OFFICE (WORD, EXCEL, POWERPOINT)
- AutoCAD
- SAP
- MATHEMATICA
- MathCAD
- ABAQUS
- SOFiSTiK

**References:**

References will be furnished upon request