

Theocharis Papatheocharis, Ph.D.

Department of Civil Engineering
School of Engineering
University of Thessaly (UTH)
Pedion Areos, 38334 Volos, Greece

T: +30 2421074373
M: +30 6944745334
th_papath@yahoo.gr
tpapath@uth.gr

1. EDUCATION

- **Post Doctorate** in Structural Mechanics & Fatigue, Dept. of Mechanical Eng., UTH, Greece, 2024
- **Ph.D.** in Civil Engineering, Dept. of Civil Eng., UTH, Greece, 2020
- **M.Sc.** in Applied Mechanics, Dept. of Civil Eng., UTH, Greece, 2012
- **Certificate** in Lab. Quality Control (ISO 17025), Hellenic Accreditation System (ΕΣΥΔ), Greece, 2011
- **Diploma** (5-year degree) in Civil Engineering, Dept. of Civil Eng., UTH, Greece, 2007
- **Bachelor** in Structural Engineering, Tech. Educ. Inst. of Crete, Greece, 2000

2. PROFESSIONAL EXPERIENCE

- **Adjunct Lecturer**, School of Engineering, UTH, Greece (2021- Present)
 - Dept. of Civil Eng., (2021-Present)
(undergraduate courses “Prestressed Concrete Design”, “Composite Structures”)
(postgraduate course “Advanced Construction Materials”)
 - Dept. of Architecture, (2023-Present)
(postgraduate course “Assessment and Strengthening of Existing Structures”)
- **Senior Research Associate**, Lab. of Mechanics & Strength of Materials, Dept. of Mechanical Eng., UTH, Greece, (2022-Present)
- **Research Assistant/Associate**, Lab. of Reinforced Concrete Technology & Structures, Dept. of Civil Eng., UTH, Greece, (2007-2021)
- **Research Engineer**, SHELTER S.A., Larissa, Greece, (2014-2016, 2021-2023)
- **Research Engineer**, Materials Industrial Research & Technology Center S.A. (EBETAM A.E.), Volos, Greece, (2010-2012)
- **Professional Civil Engineer**, member of Technical Chamber of Greece (2008-Present)

3. SELECTED RECENT PARTICIPATIONS IN FUNDED RESEARCH PROJECTS

- SIRENES_Structural Integrity of Offshore Renewable Energy Platforms, Hellenic Foundation for Research & Innovation, project No.3887 (2022-2025)
- HYCAD_Innovative Steel-Concrete Hybrid Coupled Walls for Buildings in Seismic Areas: Advancements and Design guidelines, European Commission, project 899381 (2020-2023)
- REFOS_Life-Cycle Assessment of a Renewable Energy Multi-Purpose Floating Offshore System, European Commission, project 709526 (2016-2019)
- JABACO_Development of Modular Steel Jacket for Offshore Windfarms, European Commission, project RFSR-CT-2015-00024 (2015-2018)
- Design tables for profiled steel sheeting, steel-concrete composite slabs and polyurethane sandwich panels, Metallemporiki S.A. (2015-2017)
- STEELEARTH_Steel-based applications in earthquake-prone areas, European Commission, project RFSR-CT-2014-00022 (2016)

4. SELECTED RECENT PUBLICATIONS IN PEER REVIEWED JOURNALS

- G. E. Varelis, A. Briffett, H. Latif, **T. Papatheocharis**, L. Bernardi, “Design considerations for hydrogen pipelines”, *Journal of Pressure Vessel Technology*, Vol.147 (5), 051504, 2025
- **T. Papatheocharis**, G. T. Plakias, A. D. Zervaki, P. C. Perdikaris, S. A. Karamanos, “Ultimate strength and fatigue of stiffened welded tubular joints in floating energy production structures”, *Engineering Structures*, 297, 116985, 2023
- **T. Papatheocharis**, G.C. Sarvanis, P. C. Perdikaris, S. A. Karamanos, A. Zervaki, “Fatigue resistance of welded tubular X-joints”, *Marine Structures*, 74, 102809, 2020
- G.E. Varelis, **T. Papatheocharis**, S. A. Karamanos, and P. C. Perdikaris, “Structural behavior and design of high-strength steel welded tubular connections under extreme loading”, *Marine Structures*, 71 (2020), 102701, 2020
- **T. Papatheocharis**, P. C. Perdikaris, M. L. Moretti, “Response of RC frames strengthened by RC infill walls: Experimental study”, *Journal of Structural Engineering*, 145(11): 04019129, 2019

5. SELECTED RECENT PUBLICATIONS IN PEER REVIEWED CONFERENCES

- **T. Papatheocharis**, C. K. Mourlas, I. Gavrilidis, S. A. Karamanos, A. Zervaki, "High-cycle and low-cycle fatigue resistance of welded T-joint plate connections made of mild and high-strength steel for offshore energy applications", *Pressure Vessels & Piping Division Conference*, ASME PVP 2025, Montreal, Canada, July 2025
- **T. Papatheocharis**, G. E. Varelis, P. C. Perdikaris, S. A. Karamanos, “Experimental and numerical investigation of steel end-plate to CHS bolted connections”, *10th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, COMPDYN 2025, Rhodes Island, Greece, June 2025
- **T. Papatheocharis**, V. Koutselinis, M. L. Moretti, P. C. Perdikaris, “Experimental Investigation on the Response of Substandard RC Frames Retrofitted with RC Infill Walls”, *18th World Conference on Earthquake Engineering*, WCEE 2024, Milan, Italy, July 2024
- **T. Papatheocharis**, G. E. Varelis, P. C. Perdikaris, S. A. Karamanos, “Strength of welded connections in unanchored steel liquid storage tanks under seismic loading”, *11th International Conference on the Behaviour of Steel Structures in Seismic Areas*, STESSA 2024, Salerno, Italy, July 2024
- Ilias Gavrilidis, **T. Papatheocharis**, S. A. Karamanos, “Tubular welded connections in offshore steel floating platform: structural design optimization”, *34th International Ocean and Polar Engineering Conference*, ISOPE-2024, Rhodes, Greece, June 2024
- V. Koutselinis, **T. Papatheocharis**, P. C. Perdikaris, “Experimental study of an RC frame strengthened with a low strength RC infill wall under horizontal cyclic loading”, *5th Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Athens, Greece, October 2022

6. FELLOWSHIPS & AWARDS

- Reviewer recognition, Elsevier, 2024
- Postdoctoral research fellowship, Dept. of Mechanical Eng., UTH, Greece, 2021
- OMAE Award’s Committee for the paper: A. E. Pournara (recipient), **T. Papatheocharis**, S. A. Karamanos, P. C. Perdikaris, “*Structural Integrity of Buckled Steel Pipelines*”, ASME, 2015
- Scholarships for postgraduate research, Special Account for Research Grants, Dept. of Civil Eng., UTH, Greece, 2009, 2010, 2011 & 2012