

Curriculum vitae

I. Education

Doctor of Philosophy (PhD) in Civil Engineering June 2015 – July 2022

University of Birmingham, United Kingdom

Exchange studies: University of Illinois Urbana-Champaign (2017-2018), University of Melbourne (2018) (<https://www.didaktorika.gr/eadd/handle/10442/52323>)

Masters in Strategic Project Management European August 2012 – June 2015

Erasmus Mundus Joint Masters, European Union

Degrees awarded: MSc Heriot-Watt University Edinburgh, MSPM Politecnico di Milano, MBA Umeå universitet

Dipl.-ing. Civil Engineer (equivalent of MSc degree) September 2003 – July 2012

Aristotle University of Thessaloniki, Greece

Erasmus exchange studies: MSc in Civil Engineering Structures, City University London (2009-2010)

ATHENS exchange studies: Delft University of Technology (2011), Czech Technical University in Prague (2010)

Societies: IAESTE LC Thessaloniki (2005-2012)

II. Professional experience

Assistant Professor

September 2025 – Present

Department of Planning and Regional Development, School of Engineering, University of Thessaly, Volos, Greece.

Subject: Planning, Management & Evaluation of Programs, Investments & Projects.

Teaching UG courses: [1] Project Appraisal (AY0101), [2] Administration and Project Management (ΔY0802), [3] Construction and Building Material Technology I (TY0600), [4] Construction and Building Material Technology II (TE0600)

Postdoctoral Researcher

March 2025 – September 2025

Department of Economics, University of Crete, Rethymno, Greece.

Postdoctoral Researcher in Energy Economics of Solar PV, Battery Energy Storage (BESS) and Hybrid systems at the Department of Economics.

Civil Engineer

August 2024 – September 2025

University of Crete, Rethymno, Greece.

Civil Engineer with focus on Tendering, Project Control and Contract Engineering at the Technical Studies Department of the Directorate of Technical Works.

Contract management of the largest of its kind Public-Private Partnership building project in Greece, for the construction of student residences and an amphitheatre.

Civil Design Engineer

July 2021 – June 2024

Metlen Energy & Metals, Thessaloniki, Greece.

Civil Engineer with focus on Civil Infrastructure Design for Solar, Energy Storage and Hybrid Power projects in Europe, America & Australia.

- Road, Drainage and Earthworks design.
- Design of Steel and Composite Structures.
- Assessment of Technical Requirements, Geotechnical Reports, Environmental Reports.
- Assessment of Structural Steel Products based on ISO, EN, DIN, BS, ASTM standards, including Atmospheric and Soil Corrosion Assessment.
- Civil Design and Management of the UK's largest Solar Plant, Cleve Hill, and Lightsource BP's first BESS project at Tiln Farm.
- Civil Design and Management of 24 projects in the UK, 7 projects in Ireland, 6 projects in Cyprus, 1 project in France and 1 project in Germany.

Programme Leader of School of Engineering

August 2020 – July 2021

Mediterranean College Thessaloniki in partnership with University of Derby, Thessaloniki, Greece.

Accredited Lecturer in Civil and Mechanical Engineering at University of Derby.

Leading the School of Engineering including: [1] MEng / BEng (Hons) Civil Engineering & Construction, [2] MEng / BEng (Hons) Mechanical Engineering & Design, [3] MSc Civil Engineering & Construction, [4] MSc Mechanical Engineering & Design, [5] MSc Renewable Energy Engineering

Teaching MSc courses: Transport and Infrastructure Engineering and Sustainable Design (7BU506), Investment Appraisal and Entry Barriers to Renewable Energy (7ME555), CPD and Strategic Management (7ME537).

Teaching UG courses: Management of the Business Environment (4ME709), Regulatory Systems (4ME711), Project Planning and Development (5ME703), Civil Engineering Construction Management (6ME701).

Postdoctoral Fellow & Course Instructor

June 2018 – May 2020

Department of Civil & Mineral Engineering, University of Toronto, Toronto, Canada
Postdoctoral fellow in infrastructure life cycle assessment

Course Instructor: Infrastructure and Urban Prosperity (CEM 1003 Graduate Course) of MEng in Cities Engineering and Management (MEngCEM).

Teaching in Higher Education (THE500) certification by the Woodsworth College.

Awarded the International Visiting Postdoctoral Fellowship (2019-2020) of the School of Cities.

Visiting Scholar

July 2017 – June 2018

Regional Economics Applications Laboratory, University of Illinois Urbana-Champaign, Urbana, United States of America

Researcher to examine infrastructure's post-recovery from unexpected events such as floods and earthquakes and in the modelling of the recovery paths.

Universitas 21 PhD Scholar

April 2018 – May 2018

Melbourne School of Design, University of Melbourne, Melbourne, Australia

Researcher at the Smart Villages Lab. Research Project: The Assam Project (India): Growing capacity in rural construction and development.

PhD Researcher & Teaching Associate June 2015 – July 2017
Department of Civil Engineering, University of Birmingham, United Kingdom
UK Research Projects: UKCRIC (UK Collaboratorium for Research on Infrastructure and Cities) project, iBUILD (Infrastructure BUbusiness models, valuation and Innovation for Local Delivery) project & Liveable Cities (Transforming the Engineering of Cities to Deliver Societal and Planetary Wellbeing) project.
Teaching Modules: Fluid Mechanics, Heat Transfer and Thermodynamics of BEng/MEng in Civil Engineering.
Other duties: exam invigilator, marking of exam scripts & administration assistant.

Temporary Researcher October 2016 – November 2016
University of Aberdeen, United Kingdom
Research Project: Smart Routing project.

Corporal Combat Engineer - Transport Corporal January 2014 – October 2014
Hellenic Army, Greece
Basic Training and Transport Corporal Training in Sparta.
Corporal Combat Engineer Training in Samos.
Advanced Training of New Recruits in Lemnos.
Military Service in Lemnos and Central Macedonia.

Information Technology Intern January 2013 – February 2013
Scottish Government, United Kingdom
Video Conference project.

Civil Engineer Trainee July 2011 – August 2011
Region of Central Macedonia, Thessaloniki, Greece
Feasibility Study for the Urban Sea Transportation in the Metropolitan Area of Thessaloniki.

Research Assistant January 2009 – August 2010
Department of Civil Engineering, Aristotle University of Thessaloniki, Greece
European Research Projects: ACTUS (ACcessibility network for TURkish Greek Societies) project, MEDRA (Mersin and Drama municipalities' cooperation on accessible tourism) project & FLIPPER (Flexible Transport Services and ICT platform for Eco-Mobility in urban and rural European areas) project.
Invited Lecturer: Project Management in International Environment of MSc in Engineering Project Management

Civil Engineer Trainee June 2009 – August 2009
Engineering Department, Consolidated Contractors Company, Muscat, Oman
Cyclone Damages Rehabilitation Works, Aseela Ras Al Hadd Road project.

Civil Engineer Trainee June 2008 – August 2008
Project Control Department, Archirodon Group N.V., Dubai, United Arab Emirates
Khalifa Port project.

III. Journal and Conference Reviewer

[1] Proceedings of the Institution of Civil Engineers journal Engineering Sustainability (ISSN 1478-4629 | E-ISSN 1751-7680), [2] Proceedings of the Institution of Geotechnical Research (ISSN 1353-2618 | E-ISSN 1751-8563), [3] Environmental Research: Infrastructure and Sustainability (Online ISSN: 2634-4505), [4] Integrated Environmental Assessment and Management (Online ISSN:1551-3793), [5] International Journal of Construction Management (ISSN 1562-3599 | E-ISSN 2331-2327), [6] Transportation Research Board Annual Meeting, Washington DC, United States

IV. Publications in Refereed Journals

[1] Kalyviotis N. (2025) “Comparative review of corrosion assessment methods in exposed galvanised steel structures”, Proceedings of the Institution of Civil Engineers journal Forensic Engineering (ISSN 2043-9903 | E-ISSN 2043-9911 | DOI: 10.1680/jfoen.25.00028)

[2] Kalyviotis N. (2025) Earthworks quantification with building information modelling for linear infrastructure, Proceedings of the Institution of Civil Engineers journal Engineering Sustainability (ISSN 1478-4629 | E-ISSN 1751-7680 | DOI: 10.1680/jensu.24.00187)

[3] Kalyviotis N., Rogers C.D.F. & Hewings G.J.D. (2025) “The environmental value of transport infrastructure in the UK: an EXIOBASE analysis”, Proceedings of the Institution of Civil Engineers journal Engineering Sustainability: Themed issue on Resilient Infrastructure for Future Generations (ISSN 1478-4629 | E-ISSN 1751-7680 | DOI: 10.1680/jensu.24.00023)

[4] Kalyviotis N., Rogers C.D.F. & Hewings G.J.D. (2024) “The economic value of transport infrastructure in the UK: an Input-Output analysis”, Proceedings of the Institution of Civil Engineers journal Engineering Sustainability: Themed issue on Resilient Infrastructure for Future Generations (ISSN 1478-4629 | E-ISSN 1751-7680 | DOI: 10.1680/jensu.24.00015)

[5] Kalyviotis N. (2024) “Life-cycle assessment tools for road design: analysing linearity assumptions”, Proceedings of the Institution of Civil Engineers journal Engineering Sustainability: Themed issue on Resilient Infrastructure for Future Generations (ISSN 1478-4629 | E-ISSN 1751-7680 | DOI: 10.1680/jensu.24.00038)

[6] Olubanjo O., Kalyviotis N. & Saxe S. (2019) “Embodied emissions in rail infrastructure: a critical literature review”, Environmental Research Letters (ISSN 1748-9326 | E-ISSN 1748-9326 | DOI: 10.1088/1748-9326/ab442f)

[7] Kalyviotis N., Rogers C.D.F., Tight M.R., Hewings G.J.D. & Doloi H. (2018) “Defining the Social Value of Transport Infrastructure”, Proceedings of the Institution of Civil Engineers journal Infrastructure Asset Management, Issue: Themed issue on Understanding the value of infrastructure systems Volume 7, Issue 2, p.111-119 (ISSN 2053-0250 | DOI: 10.1680/jinam.18.00005)

[8] Kalyviotis N., Rogers C.D.F., Tight M.R., Hewings G.J.D. & Doloi H. (2018) “Infrastructure Management: Devise of a Business Model for Transport Infrastructure Interdependencies Management”, RELAND: International Journal of Real Estate & Land Planning, Volume 1, p.237 – 265 (E-ISSN 2623-4807 | DOI: 10.26262/reland.v1i0.6479)

[9] Kalyviotis N., Rogers C.D.F., Tight M.R., Hewings G.J.D. & Doloi H. (2018) “The Environmental Value of Sustainable Transport Infrastructure”, RELAND: International Journal of Real Estate & Land Planning, Volume 1, p.42 – 57 (E-ISSN 2623-4807 | DOI: 10.26262/reland.v1i0.6457)

V. Publications in Refereed Conference Proceedings

[1] Olubanjo O., Kalyviotis N. & Saxe S. (2019) “Embodied Emissions in Rail Infrastructure: A literature Review”, Transportation Research Board 98th Annual Meeting, 13 – 17 January, Washington, D.C, United States

[2] Kalyviotis N., Rogers C.D.F., Tight M.R., Hewings G.J.D. & Doloi H. (2017) “Transport infrastructure interdependencies with energy, water, waste and communication infrastructure in the United Kingdom”, 64th Annual North American Meetings of the Regional Science Association International, 8 – 11 November, Vancouver, Canada

[3] Kalyviotis N., Rogers C.D.F., Tight M.R., Hewings G.J.D. & Doloi H. (2017) “Next Generation Infrastructure Interdependencies: An economic deterministic model of transport interdependencies in the United Kingdom”, International Symposium for Next Generation Infrastructure, 11–13 September, London, United Kingdom (p.210 – 218)

[4] Kalyviotis N., Rogers C.D.F., Tight M.R., Hewings G.J.D. & Doloi H. (2017) “The individual as the key-stakeholder of Next Generation Infrastructure: Defining the social value of transport infrastructure in the United Kingdom”, International Symposium for Next Generation Infrastructure, 11–13 September, London, United Kingdom (p.219 – 227)

[5] Kalyviotis N. (2015) “Project Control Body of Strategic Knowledge for Complex Construction Projects”, 8th International Conference on Construction in the 21st Century “Changing the Field: Recent Developments for the Future of Engineering and Construction”, 27 – 30 May, Thessaloniki, Greece (ISBN 978-0-9894623-7-2, p.31 – 38)

[6] Kalyviotis N., Kitsios D. & Naniopoulos A. (2010) “Construction Contracts, Project Delivery Methods and Roles of the Project Stakeholders. The case of Khalifa Port project in Abu Dhabi.”, 5th Scientific Conference on Project Management: Advancing Project Management for the 21st Century “Concepts, Tools & Techniques for Managing Successful Projects”, 29 – 31 May, Heraklion, Greece (ISBN 978-960-254-690-1, p.312 – 319)

VI. Presentations in Refereed Conference

[1] Kalyviotis N. & Langarita R. (2025) “Contract management of public-private partnership building projects in countries experiencing economic crises: The case of the University of Crete”, 64th European Regional Science Association Congress “Regional Science in Turbulent Times. In search of a resilient, sustainable and inclusive future”, 26 – 29 August, Athens, Greece

[2] Kalyviotis N., Cartone A., Carrascal-Incera A. & Stamatopoulos G. (2025) “Assessing Economic Constraints and Cost-Benefit Analysis Framework of Solar Parks and Energy Storage Infrastructures”, 64th European Regional Science Association Congress “Regional Science in Turbulent Times. In search of a resilient, sustainable and inclusive future”, 26 – 29 August, Athens, Greece

[3] Kalyviotis N., Kalogerakis G.C. & Kolliopoulos G. (2025) “Life Cycle Assessment Methods in Economic Sectors focusing on Waste Sector”, 9th European Bioremediation Conference, 15-19 June, Chania, Greece

[4] Kalyviotis N. (2018) “Transport Infrastructure Environmental Evaluation in the United Kingdom”, 11th Annual Midwest Graduate Student Summit on Applied Economics, Regional, and Urban Studies, 7 – 8 April, West Virginia University, Morgantown WV, United States

[5] Kalyviotis N., Rogers C.D.F. & Tight M.R. (2017) “Valuing Transport Infrastructure: A quantitative study of the factors defining the social value of transport infrastructure in the United Kingdom”, Valuing Infrastructure Conference: Valuing the Infrastructure of Cities, Regions and Nations, 26 – 27 April, Leeds, United Kingdom

[6] Kalyviotis N., Rogers C.D.F. & Tight M.R. (2017) “Infrastructure Interdependencies: Transport sector economic dependency with other critical infrastructure sectors in the United Kingdom”, Valuing Infrastructure Conference: Valuing the Infrastructure of Cities, Regions and Nations, 26 – 27 April, Leeds, United Kingdom