

STYLIANOS (STELIOS) YIATROS

Employment

Oct 2011 – Present **Cyprus University of Technology**, *Department of Civil Engineering & Geomatics*.
Assistant Professor in Structural Engineering (2016-Present).

Lecturer in Structural Engineering (2011-2016).

Roles / Duties

- **Attracted over € 850,000** in external Research, Innovation and Education funding as Coordinator or Principal Investigator.
- 2020 – Coordinates the AdHoc University committee for the implementation of **UN SDGs at CUT**
- 2016 - **Education Lead** for **EIT Climate-KIC Cyprus Hub** Regional Innovation Scheme.
- 2019 – 2020 member of the University Senate Committee **for Student Welfare and Housing**
- 2019 **Coordinated** the Quality Assurance report for MSc in Civil Engineering and Sustainable Design.
- 2013 – 2015 Member of the Senate Committee for **Information Services**.
- 2013 **Coordinated** the Department's Participation in the **QUESTE-SI** for accreditation of the Sustainability and Social Responsibility.
- **Supervisor** of 2 **PhD** Candidates and of a number of Master and Bachelor dissertations

Jan 2015– 2017 **Cranfield University (UK)**,

Marie Curie Fellow (Intra-European Fellowship) at the Centre of Offshore, Renewable Energy Engineering.

- Initiated experimental research on the structural stability and integrity of novel steel plate-steel foam sandwich prototypes.

Oct 2010 – Sep 2011 **Brunel University London (UK)**, *School of Engineering & Design*

Lecturer in Structural Design (Dept. of Civil Engineering)

- Lecturer for Y3 Structural Analysis and Y1 & Y2 CAD and project supervision in steel structures.

Education

2006 – 2010 **Imperial College London, UK**.

- **PhD** in *Nonlinear Structural Mechanics and DIC in Structural Engineering*.
Thesis title: "Mode interaction and localization in sandwich struts and beam-columns".

2002 – 2006 **Imperial College London, UK**.

- **MEng** with *First Class (Hons)* in *Civil & Environmental Engineering*. (Top 10% of Class). Final Year Project Title: "The load bearing duct: Biomimicry in structural design".

Awards

- 2015 **Merit for Excellence in Structural Engineering Education** by the Institution of Structural Engineers.
- 2014 **Cleanlaunchpad Prize for Nat. Competition Communication** by Climate-KIC
- 2013 Contributor to an **award winning 2013 Microsoft ThinkWeek** paper on sustainably designed Data Centers.
- 2012 **FameLab Cyprus**. 3rd in National competition for communicating science.
- 2009 **Best Graduate Teaching Assistant Award**. Awarded by the Faculty of Engineering for the Department of Civil & Environmental Engineering (IC).
- 2008 **Trevithick Prize**. Awarded by the Institution of Civil Engineers (UK) for the best article in Proceedings of the ICE Engineering Sustainability Journal in 2007.
- 2006 **Hays Undergraduate Prize**. Awarded by Hays plc and the Department of Civil & Environmental Engineering (IC) for the best final year project with design application.

Grants & Scholarships

- 2019 ERASMUS+ Grant for International Mobility for Teaching and Training (**€ 6 000**)
- 2016 **Institution of Structural Engineers Research Grant (£ 5 000)**
- 2013 **Marie Curie Intra-European Fellowship** to carry out research in the UK. (**€ 220 000**)
- 2012 **CUT Start-Up Grant (€ 40 000)** to set up research group in structural stability of functionally optimized structures.
- 2011 **ICE Quest Travel Grant** to facilitate travel and presentation at the 2011 ASCE/EMI Conference in Boston, USA. (**£ 500**).
- 2008 Travel Grants from the **Royal Academy of Engineering (£ 700)** and the **Old Centralians Trust (£ 500)** to facilitate travel and presentation at the International Conference on Thin-Walled Structures, at Gold Coast, Queensland, Australia.
- 2006 **EPSRC Doctoral Training Award** funding PhD study for 36 months. (**~£ 50 000**)
- 2006 **ICE QUEST scholarship** to facilitate volunteering work in El Salvador with a group of Imperial College engineering students, through the “**El Salvador Project**”. (**£2 000**)

Teaching

- (2017 - Present) Delivery of 4 independent modules (UG Y1 **Engineering Mechanics – Statics**, Y2 **Strength of Materials**, Y4 **Design of Steel & Composite Structures**, MSc module in **Sustainable Design of Steel Structures**). Contribution to MSc module on **Research Methods**.
- **Delivered** (2011-2014) **Y1 and Y2 Professional Skills for Engineers** and **Y1 and Y2 Integrated Design**.
- **High marks** in student evaluation in all 8 modules (ranging from 74 to 100%).
- **Developed** in collaboration with the Expedition Engineering a **free online tool and tutorials** for the **intuitive understanding of structural behaviour** for UG students.
- Submission of **Y1 Integrated Design** to the **2015 IStructE Excellence in Education Award**, receiving **Merit** for Excellence in Engineering Education
- **Coordinated** Y2 Integrated Design project “Nicosia International Airport: The return”, which received national press coverage.
- **Main Supervisor** UG and MSc dissertations projects as well as 2 PhD students.

Participation in Conferences, Seminars & Workshops

- 2021 **To present:** 2021 EMI Conference, Columbia University NY, USA [online]
- 2019 **Presented:** Incell 2019, Maribor, Slovenia.
- 2019 **Presented:** 2019 EMI Conference, Caltech, California, USA.
- 2018 **Presented:** 2018 EMI Conference, MIT, Mass. USA
- 2016 **Presented:** 2016 International EMI Conference, Metz France.
- 2016 **Presented:** 2nd MECHCOMP Conference, Porto Portugal.
- 2015 **Presented:** 8th Biomimicry Education Summit, Austin TX USA.
- 2015 **Presented:** 9th MetFoam 2015 Conference, Barcelona Spain.
- 2015 **Presented:** 2015 EMI Conference, Stanford University, USA.
- 2014 **Presented:** 1st Int. Conf. on Mechanics of Composites, Stony Brook, USA (4 days).
- 2013 **Presented:** 17 Int. Conf. of Composite Structures, Porto, Portugal (4 days).
- 2012 **Presented:** 6 Int. Conf. on Coupled Instabilities in Metal Str., Glasgow, UK (3 days).
- 2012 **Presented:** Joint Conf. of the EMI and the 11 Joint Specialty Conf. on Probabilistic Mechanics and Structural Reliability, Notre Dame, Indiana, USA. (3 days).
- 2011 **Presented:** EMI Conf. on Engineering Mechanics at Boston, USA. (3 days).
- 2010 – 2011 **Attended:** number of workshops as part of the **Professional Development for Academic Practice**, organized by Brunel Univ. Acad. Practice Development Unit.
- 2009 **Attended** **'Reflections in Nonlinear Mechanics'**, Int. Symp. at U. of Bath. (2 days).
- 2008 **Presented:** 5 Int. Conf. on Thin-Walled Structures at Gold Coast, Australia (3 days).
- 2008 **Attended:** 2-day workshops on **AutoCAD Civil 3D** and **OasysGSA** at Imp. College
- 2007 **Attended:** workshop on **'Multi-resolution and High Oscillation for Evolutionary Problems'** at U. of Bath. (2 days).

Invited Lectures/ Participation in invited workshops

- 2021 **Invited to speak** at the **Regional Forum for the UN Economic Commission for Europe** on “Sustainable and resilient recovery from COVID-19 and action and delivery on the 2030 Agenda for Sustainable Development in the UNECE Region
- 2021 **Invited to moderate** a **fireside chat** with Grantham Institute’s and UN IPCC Expert member, Professor Joanna Haigh, hosted by the UK High Commission in Cyprus.
- 2020 - Invited **member in Expert Panel** “Fore:sight VET Follow-up for Green and Digital Transition in the Construction Sector” during the European Vocational Skills Week 2020.
- 2019 **Invited talk** on steel foam sandwich structures, at the School of Civil Engineering at the University of Sydney
- 2019 Invited **Keynote Presentation** on Circular Economy Thinking for the Construction Sector at the **2nd National Structural and Civil Engineering Conference**
- 2019 **Invited talk** on Climate innovation activities in Cyprus at Climate-KIC Australia, in Sydney.
- 2018 **Invited Expert** on Climate Innovation at the House of Parliament of the Republic of Cyprus for the Occasion of the Trilateral Sessions with the Speakers of the Greek and Israeli Parliaments (2 days).
- 2018 **Invited Judge** at the semi-finals of Climate-KIC Climatelaunchpad EU business idea competition in Edinburgh, UK (2 days).
- 2018 **Invited Panel participation** at the EIT Raw Materials Forum, Greece (1 day)
- 2017 **Invited Talk** on INSIST Project at Ramboll Energy group in London, UK (1 day).
- 2017 **Invited Presentation** on the experimental investigation of SAS panels at Havel Metal Foam GmbH (1 day)

- 2016 **Invited Judge** at the semi-finals of Climate-KIC Climatelaunchpad EU business idea competition in Tallinn, Estonia (2 days).
- 2014 **Invited Judge** at the semi-finals of Climate-KIC Cleanlaunchpad EU business idea competition in Valencia, Spain (2 days).
- 2014 **Invited Lecture** at the CUT Creativity Forum: “Nicosia International Airport: The return – A case study of innovative teaching and its impact”, Limassol, Cyprus.
- 2013 **Invited talk** on “*Sustainable Integrated Design*”. A talk and workshop for the Year 3 UG Group Design Projects in Civil Engineering, **Imperial College London, UK**.
- 2012 **Invited participation** in the *Climate-KIC Masterclass on “Business Model Canvass”* at TU Berlin, Berlin, Germany (2 days).
- 2012 **Invited participation** in the “*LNG logistics and Finance*” workshop organized by **Noble Energy** (Cyprus), Nicosia, Cyprus (2 days).
- 2007 – 2013 **Annual invited talk “The Load Bearing Duct”** for the MSc course in Sustainable Development at **Imperial College London, UK**.
- 2011 “*Biomimicry in Structural Design: Challenges and Opportunities*”. A CPD talk at **Foster+Partners** in London, UK.

Memberships & Affiliations

- *National Representative, Committee CEN TC 350 and Sub-committee CEN TC 350 SC1* for the Circular Economy for the Construction Sector, for the **European Committee of Standardization**.
- *Founding Member, Cyprus Circular Economy Centre*.
- *Member, Leadership Council, UN Sustainable Development Solutions Network Cyprus*
- *Vice Chair, Structural Stability Committee, Engineering Mechanics Institute, USA*.
- *Member, International Scientific Committee of the ASCE EMI International Conference 2020* in Durham (moved to 2021)
- *Member, The Republic of Cyprus Parallel Thematic Parliament for Entrepreneurship*.
- *Member, Cyprus Technical and Scientific Chamber* (Lic. Civil Engineer #A108173).
- *Member, Cyprus Mirror Tech. Committees for EN1993 and 1994 (Eurocodes)*.
- *Graduate Member, Institution of Structural Engineers, UK*.
- *Associate, City and Guilds Institute, UK*.
- *Associate Member, American Society of Civil Engineers, USA*.
- *Member, Cyprus Association of Civil Engineers, CY*.

Other Professional Experience

- 2021 Invitation to be an **Associate Topic Editor** for Sustainable and Green Materials for the Composites and Advanced Materials (formerly Advanced Composite Letters) of SAGE Publishers.
- 2021 **Chair of the MS266** “Structural Instabilities: From Failure to Function” Mini-Symposium for the ASCE Engineering Mechanics Institute Conference 2021.
- 2020 **External Examiner** for the Revalidation of Civil Engineering Courses at the London **Southbank University**.
- 2020 **Member of the International Scientific Committee** for the ASCE EMI International Conference 2020 (moved to 2021), Durham, UK
- 2019 - **Trainer** for the World Futures social simulation and **Coach** for Climate Innovation Startups from Climate-KIC.

- 2011 - **Examiner** in 3 PhD Transfer exams at CUT & Brunel and 1 PhD Viva Examination at Cranfield University.
- 2011 Freelance **structural analysis and design** for Multimarine Ltd.
- **2010 – Present** Reviewer for a number of international journals (Composite Structures, ASCE JEM, Thin-Walled Structures, etc)
- 2006 – 2010 **Graduate Teaching Assistant** (Imperial College London) contributed in lectures, tutorials, lab organization, project supervision and fieldwork supervision/assessment.
- 2006 **Volunteer** ‘The El Salvador Project’ (Imperial College London/REDES). Fundraising and voluntary work in El Salvador in association with local NGOs, building earthquake resistant buildings and sanitary facilities in deprived communities. (2 months).
- 2003- 2005 **Intern UG Engineer** with engineering and construction practices in the UK and Cyprus (Expedition Engineering Ltd, UK, Fitzpatrick Contractors, UK, J&P Cyprus Ltd)

Outreach and other extra-academic activities

- **Industrial liaison** for the Department of Civil Engineering & Geomatics, CUT
- EIT Climate-KIC Young Innovators Cyprus **Trainer for Teachers** and **Facilitator** in two Young Climathon Events.
- Led a joint workshop on **UN SDG** ideation activity between the **Climate-KIC Journey and Cyprus Youth Board Summer school** (1 day) 2019.
- Supported the organization of **Climathon** (24h Hackathon event for Climate Innovation) organized by the Cyprus Energy Agency in Nicosia in 2018.
- Participated in the **FP7 Marie Curie action “Researcher’s Night”** in Cyprus in 2012 and the **H2020 MCSA “Researcher’s Night”** in 2016.
- Participated in the **Mediterranean Science Festival** in 2015.
- **Acted as a judge** at a high school bridge design competition.
- **Acted as a member** of the selection committee for a series of scientific talks by young Cypriot researchers organised by the **Cyprus Youth Board**.
- Supported the founding of the first student-led engineering society at CUT (**CiGeSoc**) and acting as a **Liaison** with the Department & **Mentor**.
- **Coordinated** a fundraising construction challenge activity with **Ci.Ge.Soc, raising 4,500 Euros for the CUT Welfare fund**.
- **Co-founder** of Chrysalis LEAP, business idea accelerator for CleanTeach Startups.
- Organized employability workshops for engineering students and graduates and hosted the first **Assessment Centre** by international companies at CUT (Schlumberger in 2012 & Halliburton in 2014).

List of Projects (Documentation follows in document no. 8)

| Date | Title - Description | Funded by / Budget | Project Role |
|--------------------------|---|--|------------------------------------|
| 2021 (1 year) | EIT Climate-KIC Climate Innovation Leadership programme: Delivery of an international educational complimentary programme for CUT and CyI postgraduates | EIT Climate-KIC (EU) / CUT Budget: € 30,000 | Coordinator at host (CUT) |
| 2020 – 2022 (2 years) | NanoPro – Development and Promotion of Internationally Competitive Innovative Products and Services from Existing Enterprises | RIF (CY) RESTART INNOVATE / Total Budget: € 1,455,880 | P.I. at partner organization (CUT) |

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| | | CUT Budget: € 78,000 | |
| 2020 (1 year) | EIT Climate-KIC Young Innovators Cyprus : Development and delivery of educational activities on systems thinking for students aged 12-18 in six schools throughout Cyprus and the organisation of two Young Climathons | EIT Climate-KIC (EU) / Total Budget: € 53,250 CUT Budget: € 20,000 | Consortium Coordinator P.I. at CUT. |
| 2019- 2021 (2 years) | eNanoPrint - Nano-enabling of carbon fibre reinforced composites for improving “Through Thickness” Electrical Conductivity | RIF (CY) RESTART ENTERPRISE / Total Budget: € 263,946 CUT Budget: € 47,712 | P.I. at partner organization (CUT) |
| 2019- 2019 (1 year) | Build CIRCULAR Up: Circular transformation of the construction industry | EIT Climate-KIC (EU) / Total Budget: € 125,000 CUT Budget: € 30,375 | P.I. at partner organization (CUT) |
| 2018- 2021 (3 years) | Fibrous Multifoam - Nano-controlled Porosity for Multifunctional Fibre Reinforced Polymer Composites | RIF (CY) RESTART POSTDOC / Total Budget: € 160,000 CUT Budget: € 18,388 | P.I. at partner organization (CUT) |
| 2018- 2021 (3 years) | SMECOMP – A knowledge Alliance in Eco-Innovation Entrepreneurship to Boost SMEs Competitiveness | INTERREG Balkan Med (EU) / Total Budget: € 945.510,78 CUT Budget: € 101.150,50 | Member of investigation team at partner organization (CUT) |
| 2018- 2018 (1 year) | Circular Economy Thinking for Construction Waste Management in islands | EIT Climate-KIC (EU) / Total Budget: € 71,875 CUT Budget: € 21,875 | Consortium Coordinator P.I. at CUT. |
| 2018- 2020 | Production and Commercialisation of Ultra Strong Multi-Functional Carbon Fibre Textiles through Nanofibre – Fibre Effective Bonding | RIF (CY) RESTART ENTERPRISE / Total Budget: € 220,000 CUT Budget: € 51,409 | P.I. at partner organization (CUT) |
| 2017- | EIT Climate-KIC Journey - Development and organisation of the Climate-KIC climate | EIT Climate-KIC (EU) / | Coordinator at host (CUT) |

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| 2020 (4 years) | innovation and entrepreneurship postgraduate summer school 2017-2019 on site, 2020 online. | CUT Budget: 2020: € 47,500 2019: € 67,500 2018: € 78,000 2017: € 79,000 | |
| 2017-2019 (2 years) | Engineering and Industry Innovative Training for Engineers via Problem Based Learning | ERASMUS KA2 (EU) / Total Budget: € 200,000 CUT Budget: € 50,000 | Member of investigation team at Coordinator (CUT) |
| 2017 | Coordinated the submission of H2020 ITN/ETN proposal for Biomimetic Solutions for Research Efficient Buildings, scoring over the threshold, but not funded | RIF (CY) RESTART ENCOURAGEMENT / CUT Budget: € 7,000 | Coordinator at CUT |
| 2017 – 2021 (4 years) | 'RESTORE: REthinking Sustainability TOwards a Regenerative Economy' | COST Action (EU) | National Representative |
| 2016 - 2020 (4 years) | EIT Climate-KIC Regional Innovation Scheme Cyprus Hub: Coordination and delivery of climate innovation and outreach activities across Cyprus and MENA region | EIT Climate-KIC (EU) / CUT Budget: 2020: € 96,402 2019: € 212,430 2018: € 230,604 2017: € 237,412 2016: € 281,606 | Member of the coordinating team at Consortium leader. |
| 2016-2017 (0.5 year) | Experimental Evaluation of vibration damping in steel foam sandwich structures | Institution of Structural Engineers (UK) / Cranfield Budget: £ 5,000. | Coordinator at Cranfield University |
| 2015-2017 (2 years) | Marie Curie Intra-European Fellowship – Investigation of the Structural Stability and Integrity of Steel Foam Sandwich Panels | FP7 Marie Curie (EU) / Cranfield Budget: € 220,000 | Fellow / P.I at Cranfield University |
| 2013-2014 (2 years) | Preparation for systematic investigations in functionally graded aluminium beam-columns | DFG International Cooperation Fund (DE) / Total Budget: € 10,000 CUT Budget: € 4,000 | P.I. at partner organization (CUT) |
| 2010-2011 (1 year) | Development of online software for structural analysis “push me pull me” | Royal Academy of Engineering HE STEM (UK) / £ 10,000 | Coordinator at Brunel/CUT |