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Elpida Vangeloglou

MSc, CEng MCIBSE, BREEAM

Chartered engineer and researcher with expertise in building physics, sustainable building design, occupant health and wellbeing and airborne infection resilience with a strong technical background in environmental performance analysis. Experienced in leading applied research, authoring technical guidance, and collaborating with academic and industry partners to deliver real-world impact in the built environment.

Awards

AIRBODS:

2023 CIBSE Building Performance Award for Learning and Development

Highly Commended Award

Education and qualifications

- ***Chartered Engineer Member*** *of Chartered Institution of Building Services Engineers, CIBSE (UK)*
- ***Licensed BREEAM Assessor****, International New Construction 2013 scheme*
- ***MSc in Engineering – Sustainable Energy*** *– Technical University of Denmark (2011-2013)*
- ***BSc, MSc in Environmental Engineering****– Technical University of Crete (2005-2010)*
- ***Environmental Engineering*** *– Universita degli studi di Bologna (Erasmus Exchange, 2008)*

Research experience

London South Bank University (London, 02/2021 – 12/2022)

Research Associate

- Researcher in "Airborne Infection Reduction through Building Operation and Design for SARS-CoV-2" (AIRBODS) programme, led by Loughborough University in partnership with London South Bank University, University College London, the University of Nottingham, the University of Cambridge, the University of Sheffield and Wirth Research
- Lead author of awarded AIRBODS guidance and co-developer of BODS Tool (see Publications)
- Organised focus groups with industry participants and undertook qualitative research analysis

Selected presentations

CIBSE #GrowYourKnowledgeWebinar on CIBSE TM69 (2023)

Loughborough Institute of Advanced Studies – Breathe event – AIRBODS launch (2023)

6th Velux Daylight Symposium (2015)

Publications

AIRBODS Publications (2023)

Lead author - *AIRBODS Findings and Guidance for Airborne Infection Resilience*

Creative co-developer - *Building Operation and Design Support (BODS) Tool*

Low Energy Transformation Initiative (LETI) Publications (2023)

Contributor - *LETI Operational Modelling Guide (OMG)*

Software skills

DTM	IES, PHPP, Sefaira
Daylight	IES, DIVA
CFD	Ansys CFX
CAD	Rhino, REVIT, AutoCAD, SketchUp, ANSYS SpaceClaim
Reporting Calculations	Microsoft Office, InDesign

Languages

Greek - Native
English - Fluent
Italian - Intermediate
Danish - Basic
German - Basic
Romanian - Basic

CIBSE (2022)

Co-author - *CIBSE TM69 Dynamic thermal modelling of basic blinds*

Isaac Newton Gateway to Mathematics (2021)

Co-author - *Virtual Forum for Knowledge Exchange in the Mathematical Sciences Study Group Report, Recovery from the pandemic: Hospitality & Leisure*

European Technical Magazine "REHVA" (2015)
Co-author – *Evaluation of daylight in buildings in the future*

Danish Technical Magazine "Ingeniøren" (2015)
Co-author - *Forældet dagslyskriterie spærrer for bæredygtigt byggeri*

Greek Technical Magazine "KTIRIO" (2015)
Sole author - *New shading technology with micro-lamella*, May 2015 edition

International Scientific Magazine "Solar Energy" (2012)
Co-author - *Development and analysis of mineral-based coatings for buildings and urban structures*

Industry experience

2018 – present **Director - Building Physics, Etheras Ltd** (London, Chania)

2016 – 2018 **Building Physics Engineer, Hoare Lea** (London)

2014 – 2016 **Sustainability Engineer, Ramboll** (London)

2013 **MSc Intern, MicroShade** (Copenhagen)

Selected industry projects

- ***FIFA 2022 Qatar World Cup Stadium:*** Held the role of lead dynamic thermal modeller of the CFD bowl cooling study assessing the comfort of the players and spectators under the exposed atrium.
- ***Animal Disease Research Institute:*** Undertook pollution dispersion risk analysis to examine the risks and mitigation measures associated with the decontamination process of the facilities following site survey.
- ***Multinational Engineering Firm Office building:*** Undertook environmental survey to evaluate indoor comfort conditions through site measurements.
- ***Iconic London Southbank Office Building:*** Reported on building's operational energy performance for NABERS through dynamic thermal modelling, including representation of complex HVAC system
- ***Central London Hospital:*** Dynamic thermal modelling assessment to evaluate the effectiveness of the HVAC system against comfort conditions.