



Areti Tseliou

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ABOUT ME

Areas of expertise

Bioclimatology, human thermal comfort, human adaptation, environmental Sustainability, urban environment and outdoor open areas, climate change, environmental conditions, environmental monitoring and modeling, sustainable design of outdoor areas

WORK EXPERIENCE

COLLABORATING TEACHING STAFF – HELLENIC OPEN UNIVERSITY – 2020 – Current – PATRAS, GREECE

Supervisor of Master's degree thesis in Postgraduate programs:

- Environmental Design of Cities and Buildings
- Environmental Design of Infrastructure projects
- Environmental Design

DIRECTOR'S ASSISTANT OF THE MSC PROGRAM ENVIRONMENTAL DESIGN – HELLENIC OPEN UNIVERSITY

– 09/2022 – Current – PATRAS, GREECE

Administrative Support
Program Coordination
Communication
Event Organization

TEACHING STAFF – AGRICULTURAL UNIVERSITY OF ATHENS – 2021 – Current – ATHENS, GREECE

Lecture presentations at the postgraduate program 'Land Architecture' of the Department of Plant Production of the Agricultural University of Athens

ASSISTANT PROFESSOR (ADJUNCT) – ZAYED UNIVERSITY – 01/2017 – 07/2023 – DUBAI, UNITED ARAB EMIRATES

Teaching Expertise: Earth Systems, Environmental Policy and Economics, Energy and Sustainability, Water and Solid Waste management, Environmental Hazards, Principles of Environmental Sustainability

POSTGRADUATE RESEARCHER – AGRICULTURAL UNIVERSITY OF ATHENS – 2020 – 2021 – ATHENS, GREECE

Title of research project:

'Urban Biometeorology and Planning: an integration of field surveys and weather station data for the assessment of thermal perception and related health effects towards sustainable living environments (UbiPlan)'

Role: Leader at the work package 5 of the project with the title: *'Urban design and mitigation measures for the sustainable thermal environment'*

Funding: This project received funding from the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT), under grant agreement No 146.

LABORATORY INSTRUCTOR – AGRICULTURAL UNIVERSITY OF ATHENS – 2009 – 2015

Laboratory instructor to undergraduate students in Agricultural and General Meteorology (tutoring, supervising, correcting and marking exam papers)

SUSTAINABILITY CONSULTANT – EEDAMA ADVISORS LIMITED – 2016 – 2017 – DUBAI, UNITED ARAB EMIRATES

As an environmental consultant at Eedama Advisors Limited, I promoted environmental awareness in a variety of sectors such as primary and secondary education, as well as, the private and public sectors through the development of educational and environmental-oriented activities and presentations.

ENVIRONMENTAL CONSULTANT – GREENPEACE – 2007 – 2007 – ATHENS, GREECE

MEMBER OF THE ORGANIZING COMMITTEE AT THE 4TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL DESIGN (ICED) – HELLENIC OPEN UNIVERSITY – 31/03/2023 – Current – PATRAS, GREECE

● **EDUCATION AND TRAINING**

10/2015

PHD Agricultural University of Athens, Greece

In terms of my PhD thesis, I investigated the human thermal comfort conditions in public areas across Athens in order to determine the acceptable environmental conditions in a city with a Mediterranean climate. An extensive field survey was conducted in selected open areas in the Athens basin including both in situ microclimatic monitoring and structured questionnaires to the users of the examined areas, in order to investigate the acceptable environmental conditions. Environmental models were applied to simulate the environmental conditions in typical urban areas and urban design scenarios were suggested providing the optimum relations among human thermal comfort conditions, microclimate, and urban design contributing to the sustainable development of cities.

Field of study Bioclimatology |

Thesis Microclimatic – Bioclimatic environment and open urban spaces design with vegetation in Mediterranean climate conditions

05/2009

MSC Agricultural University of Athens, Greece

Thesis “Development and application of bioclimatic indices for the assessment of effects in climatic changes over open urban spaces”.

09/2001 – 05/2007

BACHELOR School of Natural sciences, Department of Geology

09/2016 – 11/2016

CERTIFICATE University of Copenhagen

Field of study Introduction to Global Health

03/2016 – 05/2016

CERTIFICATE University of Geneva

Field of study Global Health

02/2016 – 04/2016

STATEMENT OF ACCOMPLISHMENT Ohio State University

Field of study Applied Regression Analysis

01/2016 – 03/2016

CERTIFICATE University of Illinois

Field of study Introduction to Sustainability

Field of study Data Scientist's Toolbox

LANGUAGE SKILLS

Mother tongue(s): GREEK

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Good command of Windows | Good command of statistical packages (SPSS, Statgraphics) | Experience of computational fluid dynamics models (ENVI-met) | Environmental numerical models (Rayman Pro, Bioklima) | Certified Computer User - CCU

HONOURS AND AWARDS

10/2023
Chair in several sessions of the 4th International Conference on Environmental Design (ICED 2023) – Hellenic Open University

10/2022
Chair in a session of the 3rd International Conference on Environmental Design (ICED 2022) – Hellenic Open University

2020
Fellow of the Higher Education Academy (FHEA)

Fellowship is awarded to professionals who can demonstrate they meet the criteria of Descriptor 2 (D2) of the [UK Professional Standards Framework \(UKPSF\)](#) for teaching and supporting learning in higher education.

2017
Invited Speaker at the 6th Envirocities International Conference ‘Coastal Cities Management Challenges and Solutions to Climate Change, Rabat, Morocco, October 2016

24/10/2024
Chair in a session of the 5th International Conference on Environmental Design (ICED 2024) – Hellenic Open University

01/11/2025
Chair in a session of the 6th International Conference on Environmental Design (ICED 2025) – Hellenic Open University

PUBLICATIONS

2026
Microclimate and Everyday Life: Public Space Use under Mediterranean Winter Conditions

A Mela, E Tousi, A Tseliou, M Sinou, E Melas, I Tsiros, G Varelidis

Journal Name: Journal of Sustainable Architecture and Civil Engineering

2025
Nature-Based Design for Enhancing Senior Citizens’ Outdoor Thermal Comfort

E Tousi, A Mela, A Tseliou

Journal Name: Urban Science

2025

Thornthwaite’s Water Balance Components in Greece with the Use of Gridded Data

ND Proutsos, IX Tsiros, SP Stefanidis, A Tseliou, E Evangelinou

Journal Name: Proceedings 117 (1), 10

2025

[Evaluating the microclimate impact of extensive green roofs on school buildings in mediterranean environments: a case study in Athens, Greece](#)

Authors: Rodothea Karaiskaki, Areti Tseliou, Evgenia Tousi, Athina Mela, and Efthimios Zervas | **Journal Name:** E3S Web of Conferences | **Volume, Issue and Pages:** 669, 03005 (2025)

2024

Review of the effect of air temperature on human mortality

A Tseliou, E Zervas

Journal Name: E3S Web of Conferences 585, 06001

2024

Exploring thermal discomfort during Mediterranean heatwaves through ENVI-Met simulations

E Tousi, A Tseliou, A Mela, M Sinou, Z Kanetaki, S Jacques

Journal Name: Sustainability 16 (14), 6240

2024

Thermal stress in outdoor spaces during Mediterranean heatwaves: a PET and UTCI analysis

Evgenia T, Mela A, Tseliou A.

Journal Name: Urban Science.

2023

[The Effect of Green Roofs and Green Façades in the Pedestrian Thermal Comfort of a Mediterranean Urban Residential Area](#)

Tseliou, A., Melas, E., Mela, A., Tsiros, I., & Zervas, E. Atmosphere 2023 14 (10): 1512

2023

[Evaluating the effects of green roofs and green façade as an urban heat island adaptation strategy](#)

Tseliou A., Melas E., Mela A., Tsiros I. E3S Web of Conferences

2023

[Artificial Neural Network Models for the Estimation of Air Temperature Cooling and Warming Patterns Inside Urban Clusters: The Case of Courtyards in Athens, Greece](#)

Thoma E., Moustris K.P, Tseliou. A., Papadopoulos G., Tsiros I. Environ. Sci. Proc., 26, 97

2023

[Environmental Impact of Urban Design Elements in a Mediterranean City](#)

TseliouA., Melas E., Mela A., Tsiros I. Environmental Sciences Proceedings 26(1), 76

2023

A model-based study on the impact of different tree configurations

T TSELIOU, KOLETIS, THOMA, PROUTSOS, LYKOUDIS, PANTAVOU

Journal Name: Global NEST International Conference on Environmental Science & Technology

2023

Sensitivity Analysis of Thornthwaite's Humidity and Aridity Indices in Greece

ND Proutsos, IX Tsiros, A Tseliou, C Koukis

Journal Name: International conference on Mediterranean Geosciences Union, 183-188

2022

Zacharaki K., Tseliou A., Rapsomanikis N., and Zervas E. (2022). Use of new indices for the quantification of climate change based on air temperature variability. 3rd International conference of environmental design (ICED), Athens, Greece, 22-23 October.

2022

Zacharaki K., Tseliou A., Rapsomanikis N., and Zervas E. (2022). New temperature indices for the estimation of temperature variability in Athens's greater area. 3rd International conference of environmental design (ICED), Athens, Greece, 22-23 October.

2022

Gkaidatzi LD. Tseliou A., Katsavounidou G. and Zervas E. (2022). Investigation of the thermal environment in schoolyards under Mediterranean conditions. Contribution to bioclimatic conditions improvement with the application of mild interventions – The case study of a school within the urban environment. 3rd International conference of environmental design (ICED), Athens, Greece, 22-23 October.

2022

Tseliou A, Koletsis I., Pantavou K., Thoma E., Lykoudis S., Tsiros I.X. (2022) Evaluating the effects of different mitigation strategies on the warm thermal environment of an urban square in Athens, Greece. Urban Climate, 44 101217. <https://doi.org/10.1016/j.uclim.2022.101217>

2021

Tseliou A, Koletsis I, Tsiros I.X, Lykoudis S, Pantavou K. "Evaluating the effects of urban design elements on human thermal sensation in summer" International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2020), 26-29 September 2021 Ioannina, Greece.

2021

Koletsis I, Tseliou A, Lykoudis S, Pantavou K, Tsiros IX (2021) Validation of ENVI-met microscale model with in-situ measurements in warm thermal conditions across Athens area, Athens, Greece 17th International Conference on Environmental Science and Technology. CEST2021, 1-4 September 2021, Athens, Greece

2021

Tseliou A, Koletsis I, Thoma E, Proutsos N, Lykoudis S, Pantavou K, Tsiros IX (2021) A model-based study on the impact of different tree configurations on the thermal conditions of an urban square, Athens, Greece 17th International Conference on Environmental Science and Technology. CEST2021, 1-4 September 2021, Athens, Greece

2021

Pantavou K., Lykoudis S., Delibasis K.K., Tseliou A., Koletsis I., Tsiros I.X. (2019) The integration of three field survey datasets in Athens, Greece: transformation of five-point to seven-point thermal sensation scale 16th International Conference on Environmental Science and Technology. CEST2019, 4-7 September 2019, Rhodes, Greece

2019

Koletsis I, Tseliou A, Lykoudis S, Pantavou K, Tsiros IX (2019) Testing and validation of ENVI-met simulation based on in-situ micrometeorological measurements: the case of Syntagma Square, Athens, Greece 16th International Conference on Environmental Science and Technology. CEST2019, 4-7 September 2019, Rhodes, Greece

2019

Tseliou A., Tsiros I., Lykoudis P.S. (2019) Data on thermal sensation, perception and microclimatic parameters in a city with Mediterranean climate. Data in Brief 22:563-565. DOI:10.1016/j.dib.2018.12.016

2018

Moustris, K., Tsiros, I.X., Tseliou, A., Nastos P. (2018) Development and application of artificial neural network models to estimate values of a complex human thermal comfort index associated with urban heat and cool island patterns using air temperature data from a standard meteorological station. Int J Biometeorol 62, 1265–1274. <https://doi.org/10.1007/s00484-018-1531-5>

2018

Tsiros I., Hoffman M., Tseliou A., Christopoulou V., Lykoudis S. (2018) An assessment to evaluate potential passive cooling patterns for climate change adaptation in a residential neighbourhood of a Mediterranean coastal city (Athens, Greece) International Journal of Global Warming, 2018 Vol.16 No. 2, pp.181 – 208. DOI: 10.1504/IJGW.2018.094557

2018

Lototzis, M., Papadopoulos, G.K., Droulia, F., Tseliou A and Tsiros I.X (2018) A note on the correlation between circular and linear variables with an application to wind direction and air temperature data in a Mediterranean climate. Meteorol Atmos Phys 130, 259–264. DOI: <https://doi.org/10.1007/s00703-017-0508-y>

2017

Tseliou, A., Tsiros, I.X. & Nikolopoulou, M. (2017) Seasonal differences in thermal sensation in the outdoor urban environment of Mediterranean climates – the example of Athens, Greece. Int J Biometeorol 61, 1191–1208. DOI: <https://doi.org/10.1007/s00484-016-1298-5>

2017

Charalampopoulos I., Droulia F., Tseliou A. and Tsiros I.X. An evaluation of seasonal patterns of thermal conditions inside a vegetated courtyard area of a Mediterranean city (Athens) (PLEA2017 – 28th Conference), Edinburgh, 2017.

2016

Tseliou, A., Tsiros, I.X. (2016) Modeling urban microclimate to ameliorate thermal sensation conditions in outdoor areas in Athens (Greece). Build. Simul. 9, 251–267. <https://doi.org/10.1007/s12273-016-0270-y>

2016

Tseliou, A., Tsiros, I. X., Nikolopoulou, M., & Papadopoulos, G. (2016). Outdoor thermal sensation in a Mediterranean climate (Athens): The effect of selected microclimatic parameters. Architectural Science Review, 59(3), 190-202.

2016

Tseliou A., Nastos P. and Tsiros I. (2016). The effects of vegetation in thermal comfort amelioration. 16th EMS Annual Meeting & 11th European Conference on Applied Climatology (ECAC), 12–16 September 2016, Trieste, Italy

2015

Christopoulou V., Tsiros I.X., Hoffman M. and Tseliou A. (2015). A micro-scale field and numerical study for assessing the seasonal thermal effects of a vegetated courtyard on urban climate. Accepted. The 4th International Conference on Environmental Science and Technology, CEST2015, 3-5 September 2015, Rhodes, Greece

2014

Rigopoulou D., Charalampopoulos I., Tseliou A., and Tsiros I. Microclimatic and bioclimatic conditions in two urban open spaces in Athens with different configuration during the summer of 2012.12th International Conference of Meteorology, Climatology and Physics of the Atmosphere, Heraklion 28-31 May 2014: Vol. 3: pp 112-121

2013

Tseliou A., Tsiros I.X., Nikolopoulou M., Lykoudis S. (2013) Thermal Comfort Conditions and Evaluation of the Thermal Bioclimate Index PET in Two European Cities During Summer. In: Helmis C., Nastos P. (eds) Advances in Meteorology, Climatology and Atmospheric Physics. Springer Atmospheric Sciences. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-29172-2_110

2013

Mazou E., Efthimiadou A. Tsiros I. X., Tseliou A. and Alvertos N. "Air temperature prediction using recurrent neural models with embended time delays" 13th International Conference on Environmental science and technology (CEST 2013), Athens, September 2013. – conference program

2013

Tseliou, A., Tsiros, I., Nikolopoulou, M., Lykoudis, S., (2013). Thermal comfort conditions and evaluation of the biometeorological index PET in European cities. Advances in Meteorology, Climatology and Atmospheric Physics: 779-786.

2013

Tseliou A., Tsiros I.X., Nikolopoulou M., Psiloglou V. and Lykoudis S. Aspects of (human) thermal preferences in the urban outdoor environment of Athens: A preliminary study. 13th International Conference on Environmental Science and Technology Athens, Greece, 5-7 September 2013 – conference program

2012

Tsiros I.X, Efthimiadou A, Hoffman E.M., Tseliou A. 'Summer Thermal Environment and Human Comfort in Public Outdoor Urban Spaces in a Mediterranean Climate (Athens)'. Passive and Low Energy Architecture (PLEA2012 – 28th Conference), Perou, September 2012

2012

Tseliou A., Tsiros, I., Lykoudis S., Nikolopoulou M. "Thermal comfort conditions and evaluation of biometeorological index PET in open urban spaces in Europe" International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2012), National and Kapodistrian University of Athens, May 2012.

2012

Tsartsali V, Reppas D, Tsiros I.X, Chronopoulou-Sereli A, Tseliou A, Lykoudis S. "Bioclimatic assessment of outdoor urban spaces of Athens" International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2012), National and Kapodistrian University of Athens, May 2012.

2011

Tseliou A, Tsiros IX, Nikolopoulou M. and Lykoudis S. 'Acclimatization considerations for thermal comfort in urban outdoor areas' Passive and Low Energy Architecture (PLEA2011 – 27th Conference) Belgium, July 2011.

2010

Tseliou, A., Tsiros, I., Lykoudis, S. and Nikolopoulou, M. (2010). An evaluation of three biometeorological indices for human thermal comfort in urban outdoor areas under real climatic conditions, Building and Environment45: 1346-1352.

2010

Tseliou, A., Tsiros, I., Lykoudis, S., Nikolopoulou, M. Application and evaluation of typical biometeorological indices for the estimation of thermal comfort during the warm period of the year. Proceedings 10th Panhellenic (international) conference of meteorology, climatology and atmospheric physics Patras, May 2010.

● NETWORKS AND MEMBERSHIPS

Membership of International Society of Biometeorology

Membership of Hellenic chamber of commerce (ΓΕΩΤΕΕ)

Membership of Hellenic Geological Corporation (Ε.Γ.Ε.)

● CREATIVE WORKS

31/08/2023 – CURRENT

Human Adaptation to a World with a New Climate

Currently assigned as a co-author for the **book** *Human Adaptation to a World with a New Climate*, intended for distribution among students enrolled in the Master's degree program in Environmental Design at the Hellenic Open University. Collaborating on content creation, research, and development of materials to support the curriculum of the program.

01/10/2025 – 31/12/2025

The greenhouse effect - Climate change

Educational Book distributed to the students of the Master's degree program 'Environmental design' of the Hellenic Open University

● MEMBER OF JOURNAL REVIEWER BOARD

2022 – CURRENT

Volunteer reviewer agreement at BMPI journals

Reviewer at peer-reviewed journals:  Advances in Meteorology  Theoretical and Applied Climatology  Premier Publishers  Euro Mediterranean Journal  Sustainability

04/2022 – 08/2022

Conference reviewer

Reviewer at the 3rd International Conference of Environmental Design (ICED)

04/2023 – 08/2023

Conference reviewer

Reviewer at the 4th International Conference of Environmental Design (ICED)

● COMMUNICATION AND INTERPERSONAL SKILLS

Very good communication skills gained through my working experience abroad, both in the academic and the private sector, in the multicultural environment of UAE.
