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Curriculum Vitae

Asst. Prof. Dr. Andre Santos Nouri

Research Interests

Climate Responsive Indoor/Outdoor Environments, Environmental Meteorology, Urban Climatology and Biometeorology, Sustainable Thermal Sensitive Design & Planning, Human Thermo-Physiological Thresholds, , Bottom-Up Climate Change Adaptation, Environmental Psychology and Thermal Adaptation

Current Affiliation

Department of Interior Architecture and Environmental Design, Faculty of Art, Design and Architecture, Bilkent University, 06800 Bilkent, Ankara, Turkey

Contracted Teaching/Research Positions

- Assistant Professor - (January 2020 onwards)
Institution: Department of Interior Architecture and Environmental Design, Faculty of Art, Design and Architecture, Bilkent University, Turkey
- Associated Collaborative Researcher - (September 2013 - December 2019)
Institution: Research Centre for Architecture, Urbanism and Design, Faculty of Architecture, University of Lisbon, Portugal
- Independent Doctoral Researcher - (November 2014 - October 2018)
Institution: Faculty of Architecture, University of Lisbon / Foundation for Science and Technology, Portugal
- Visiting Doctoral Fellow & Lecturing Assistant - (November 2013 - November 2014)
Institution: The University of Auckland, Faculty of Creative Arts and Industries, New Zealand
- Project Researcher - (February 2012 - October 2013)
Institution: Faculty of Architecture, University of Lisbon, Portugal

Additional Interim Teaching Activity (non-contractual)

- Lecturing Assistant - (2016-2018)
Institution: Faculty of Architecture, University of Lisbon
Subjects: *Sustainable Urban Design and Planning / Designing for Climate Change*
Courses: M.Arch - Architecture with Specialisation in Urbanism /
PhD in Urbanism - Climate Change Adaptation - (2018)
- Visiting Lecturing Assistant - (2017)
Institution: The Institute of Geography and Spatial Planning, University of Lisbon
Subjects: *Urban Climatology and Human Biometeorology*
Courses: NA

Education (Post-Graduate)

➤ **PhD**, Urbanism – Undertaken by Publication

Grade: Doctorate awarded in 2018 with the ‘Unanimous’ supplementary designation of ‘Distinction with Honours’

Title: Addressing urban outdoor thermal comfort thresholds through public space design

Sub-Title: A bottom-up interdisciplinary research approach for thermal sensitive urban design in an era of climate change: The case of Lisbon

Institution: Faculty of Architecture, University of Lisbon

Co-Supervisors: Prof. Dr. João Pedro Teixeira de Abreu Costa – Faculty of Architecture, University of Lisbon, Portugal

Prof. Dr. Andreas Matzarakis – Faculty of Environment and Natural Resources, Albert-Ludwigs-University, Germany & Research Centre Human Biometeorology, German Meteorological Service, Freiburg, Germany

Local Host: Prof. Dr. Andrew Barrie – The University of Auckland, Faculty of Creative Arts and Industries, New Zealand – Local Temporary Hosting through the AUSMIP+ Program

➤ **M.Arch**, Architecture with specialisation in Urbanism

Grade: Pass with Merit, (2:1)

Institution: Faculty of Architecture, University of Lisbon, 2011-2012

Thesis Title: Climate change implications on present and future public space. Modern day paradigms for urbanism and urban design. M.Arch Thesis, University of Lisbon

➤ **MAUD**, Urban Design

Grade: Pass with Merit, (2:1)

Institution: University of Westminster, 2009-2010

Thesis Title: The impact of urban spaces on the user's conscious and subliminal experience within the built environment. MAUD Thesis, University of Westminster

Education (Under-Graduate)

➤ **B.Arch** (Hons), Architecture

Grade: Pass with Merit, (2:1)

Institution: Anglia Ruskin University, 2006-2009

Selected Publications

➤ *Journal Articles*

Costa, J. P.; J. F. d. Sousa; M. Matos Silva and A. S. Nouri (2014). "Climate change adaptation and urbanism: A developing agenda for Lisbon within the twenty-first century." *Urban Design International* 19: pp.77-91

Nouri, A. S. (2015). "A framework of thermal sensitive urban design benchmarks: potentiating the longevity of Auckland's public realm." *Buildings* 5: pp. 252-281

Nouri, A. S. and J. P. Costa (2017). "Placemaking and climate change adaptation: New qualitative and quantitative considerations for the 'Place Diagram'" *Journal of Urbanism: International Research on Placemaking and Urban Sustainability* 10(3): pp. 1-27

Nouri, A. S. and J. P. Costa (2017). "Addressing thermophysiological thresholds and psychological aspects during hot and dry Mediterranean summers through public space design: The case of Rossio." *Building and Environment* 118: pp. 67-90

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- Nouri, A. S.; A. Lopes; J. P. Costa & A. Matzarakis (2018). "Confronting potential future augmentations of the physiologically equivalent temperature through public space design: The case of Rossio, Lisbon" *Sustainable Cities and Society* 37: pp. 7-25
- Nouri, A. S.; Costa, J.P.; Santamouris, M.; Matzarakis, A. (2018). Approaches to outdoor thermal comfort thresholds through public space design: A review. *Atmosphere* 9, 108, pp. 1-50.
- Nouri, A. S.; J. P. Costa & A. Matzarakis (2017). "Examining default urban-aspect-ratios and sky-view-factors to identify priorities for thermal-sensitive public space design in hot-summer Mediterranean climates: The Lisbon case" *Building and Environment* 126: pp. 442-456
- Nouri, A. S.; Fröhlich, D.; Silva, M.M.; Matzarakis, A. (2018). The impact of Tipuana tipu species on local human thermal comfort thresholds in different urban canyon cases in Mediterranean climates: Lisbon, Portugal. *Atmosphere*, 9, pp. 2-28
- Nouri, A. S.; Charalampopoulos, I.; Matzarakis, A. (2018). Beyond singular climatic variables - Identifying the dynamics of wholesome thermo-physiological factors for existing/future human thermal comfort during hot dry Mediterranean summers. *International Journal of Environmental Research and Public Health*, 15, 2362, pp. 1-26.
- Charalampopoulos, I. and A. S. Nouri (2019). "Investigating the behaviour of human thermal indices under divergent atmospheric conditions: A sensitivity analysis approach " *Atmosphere* 10: p. 580., pp. 1-25.
- Nouri, A. S. and A. Matzarakis (2019). "The Maturing Interdisciplinary Relationship between Human Biometeorological Aspects and Local Adaptation Processes: An Encompassing Overview " *Climate* 7: 134. pp. 1-26.

➤ *Book Section/Chapters*

- Costa J. P., A. S. Nouri & A. Fernandes (2013). "An overall perspective on the climate change adaptation agenda." In: Climate change adaptation in urbanised estuaries, contributes to the Lisbon case (E-Book). J. P. Costa and F. S. Sousa. Lisbon, Portugal CIAUD-FCT: pp. 76-103
- Matos Silva, M. & A. S. Nouri (2013). "Adaptation measures on riverfronts, an overview." In: Climate change adaptation in urbanised estuaries, contributes to the Lisbon case (E-Book). J. P. Costa and F. S. Sousa. Lisbon, Portugal CIAUD-FCT: pp. 130-153
- Matos Silva, M., R. Ochoa & A. S. Nouri (2013). "Lisbon riverfront climate change impacts: local scale and public space management." In: Climate change adaptation in urbanised estuaries, contributes to the Lisbon case (E-Book). J. P. Costa and F. S. Sousa. Lisbon, Portugal CIAUD-FCT: pp. 212-229
- Nouri, A. S. (2013). A bottom-up perspective upon climate change – approaches towards the local scale and microclimatic assessment." In: Green Design, Materials and Manufacturing Processes. H. Bártolo. Lisbon, Taylor & Francis: pp. 119-124
- Nouri, A. S., & Matos Silva, M (2013). Climate change adaptation and strategies: an overview. In: Green Design, Materials and Manufacturing Processes. H. Bártolo. Lisbon, Taylor & Francis: pp. 501-507
- Nouri, A. S.; Matzarakis, A., (2020). Human Biometeorological Models – Existing and Future Reflections for Lisbon. SPRINGER Book Chapter in Urban Microclimatic Simulation for Comfort and Energy Studies (IN PRESS)

➤ *Invited Personal Communications / Key or Plenary Speaker*

- Nouri, A. S. (2014a). Climatic Public Space: City identity in uncertain climate change horizons - Research approach for microclimatic urban design in public space. Auckland-Council - Built Environment Division, Auckland, New Zealand,
- Nouri, A. S. (2014b). A framework of thermal sensitive urban design benchmarks: Potentiating the longevity of Auckland's public realm. Building a Better New Zealand Conference, Auckland, New Zealand
- Nouri, A. S.; Matos Silva, M.; Costa J. P. (2015). Public space design in an era of climate change, approaching flooding and increased temperatures. Applying theory into practice through a bottom up approach: The Lisbon Case. SINERGI – New Urban Issues, New Approaches, Faculty of Architecture, University of Lisbon, Portugal
- Nouri, A. S. (2015). Public space in an era of climate change: A shift in paradigm for contemporary urban design in the XXIst century. Cities for the XXIst Century, Barcelona, Spain

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- Nouri, A. S. (2017). Confronting both existing and projected urban physiologically equivalent temperatures through urban public space design; The case of Rossio, Lisbon, pre-WORKSHOP on Climate and Sustainability. Institute of Geography and Spatial Planning – University of Lisbon, Portugal
- Nouri, A. S., J. P. Costa & M. Santamouris (2017). Addressing thermal comfort through urban public space design. WORKSHOP on Climate and Sustainability. Institute of Geography and Spatial Planning – University of Lisbon, Portugal
- Nouri, A. S. (2019). Approaching human thermal comfort through environmentally responsive urban and architectural design, Bilkent University – Department of Interior Architectural & Environmental Design, Ankara, Turkey
- Nouri, A. S., (2020). Strengthening interdisciplinary bridges between human biometeorology with that of bottom-up urban thermal sensitive design in an era of climate change, Symposium on Challenges in Applied Human Biometeorology, Freiburg, Germany

International Association Memberships

- International Association for Urban Climate
- Romanian Young Academy, University of Bucharest, Romania
- Research Centre for Architecture, Urbanism and Design, Faculty of Architecture, University of Lisbon, Portugal

Selected International On-going Research Group Collaborations

- *Group 1 - Thermal Sensitive Measure Review Frameworks in an era of climate change*

Summary Description: ‘This project launches a developing platform of bottom-up studies into how different ‘in-situ’ measures associated to interdisciplinary practices of urban design and planning can combat existing and future human thermo-physiological thresholds in a century prone to further climate change aggravations’

Project Members: A. S. Nouri (Head), A. Matzarakis, I. Charalampopoulos, J. Algeciras

- *Group 2 - The RayMan Model*

Summary Description: ‘The RayMan model is developed to calculate shortwave and longwave radiation fluxes affecting the human body. The model considers complex building structures and is suitable for the analysis of the effect of various planning scenarios in different micro to regional scales. The model calculates the mean radiant temperature, which is required for the human energy balance model and, thus, for the assessment of the human thermal bioclimate.’

Project Members: A. Matzarakis (Head), D. Fröhlich, T. P. Lin, A. S. Nouri

- *Group 3 - Lisbon’s Urban Climate*

Summary Description: ‘Multidisciplinary research group focussed upon assessing previous, existing, and future conditions of Lisbon’s urban climate. Based upon meteorological conditions associated to Lisbon’s Köppen Geiger classification, the urban configuration, composition, and building aspects of the city are assessed to determine existing/future risk factors at local and regional scales.’

Project Members: M. J. Alcoforado (Head), A. Lopes, J. Vasconcelos, A. S. Nouri, M. Fragoso, E. Correia

Third-Party Awarded Research Funding

- *Human thermal comfort thresholds within indoor and outdoor environments – Facing rising heat levels in an era of climate change, the case of Ankara, Turkey / (Thermal Comfort Thresholds Ankara (TCTA))*

Funding Details: Total attributed funding of € 143,520.00

This research project was awarded funding (N°120C077) from the Turkish national Scientific and Technological Research Council of Turkey (TÜBİTAK), through the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement N° 801509

Summary Description: 'This research project is focused upon a bottom-up and interdisciplinary approach that is directed at the case study of Ankara. In association with its Host Institution (Department of Interior Architecture and Environmental Design at Bilkent University), Secondment Host Institution (Faculty of Environmental and Natural Resources of the Albert-Ludwigs-University – with association with the Research Centre Human Biometeorology at the German Meteorological Service (DWD) and four International Project Collaborators (IPCs), its general objective is directed at diminishing the applicative breadth between human thermal comfort indices with that of thermal responsive urban and architectural design in an era of climate change. The requirement for the proposed project originates from the growing need for the international scientific community to improve local bottom-up concrete action to enhance the thermal responsiveness of existing and future urban indoor/outdoor environments. Such an interdisciplinary bridging is argued to be the cornerstone in not only increasing the efficacy in addressing human biometeorological constraints, but also, suggesting bioclimatic measures to concretely ensure existing and future wellbeing standards in both indoor and outdoor environments.'

Project Members: A. S. Nouri (Project Coordinator), Y. Afacan (Co-Host), A. Matzarakis (Co-Host), S. Cheval (ICP), T. P. Lin (ICP), O. Çalışkan (ICP), A. Christen (ICP)

Selected Research Awards and Distinctions

- Tromp Foundation Travel Award to Young Scientist (Biometeorology) Winner (2019)
- Doctoral Research Scholarship - From Foundation for Science and Technology (FCT), Portugal (2014)
- Doctoral Mobility Scholarship - From Architecture Urbanism Student Mobility Program (AUSMIP), New Zealand (2013/4)
- Research Scholarship - From Foundation for Science and Technology (FCT), Portugal (2012)
- Travel Bursary Award Winner - From Royal Institute of British Architects (RIBA), United Kingdom (2008)
- Student Scholarship - From Anglia Ruskin University, United Kingdom (2006-2009)

Invited Journal Reviewer for

Building and Environment	Cities
Journal of Urbanism: International Research on Place Making and Urban Sustainability	Science of the Total Environment
Atmosphere	International Journal of Biometeorology
International Journal of Environmental Research and Public Health	Urban Climate
Energies	Sustainable Cities & Society
Theoretical and Applied Climatology	Buildings
Sustainability	Energy Reports

Editorial Journal Activities & Collaborations

- Atmosphere: (i) Journal Topic Editor
(ii) Special Issue Editor: *Review Special Issue: Human Biometeorology - Link to Climate Impact Research*

Doctoral Co-Supervisions & Jury Activities

➤ Doctoral Supervisees

Ali Ranjbar (Architect),

Institution: Department of Interior Architecture and Environmental Design,
Faculty of Art, Design and Architecture, Bilkent University

Provisional Title: *Analysing of thermal comfort in the open plan research offices and
its implications upon work performance*

On-going PhD Research in: Interior Architecture and Environmental Design

Claudia Reis (Geographer),

Institution: The Institute of Geography and Spatial Planning, University of
Lisbon

Provisional Translated Title: *Urban climate change: Adaptation Measures to Address Human
Thermal Comfort Levels in Lisbon*

On-going PhD Research in: Geography and Spatial Planning

➤ Doctoral Jury Participation (External Visiting Juror)

Institution: The Institute of Geography and Spatial Planning, University of
Lisbon

Candidate: Rafael Gonçalves Santos (Geographer)

Provisional Title: *Clima Urbano e Ordenamento do Território na Metrópole de São
Paulo*

UK Private/Public Sector Experience

- Position Title: Urban Designer May 2009-September 2009
Institution: Design Economics (Space Syntax) – London, Great Britain
- Position Title: Urban Design Assistant September 2008-May 2009
Institution: Essex/Chelmsford County Council – London, Great Britain