

CURRICULUM VITAE

Mhd Wasim Yahia

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Born 28 September 1979 in Damascus, Syria

Profession Postdoctoral fellow

Education PhD in Climate sensitive design Lund University 2014
Licenciate in Microclimate and outdoor thermal comfort Lund University 2012
Master in Architecture Damascus University 2005
Degree in Architecture (five years of academic studies) Damascus University 2002

Academic Experience

2019 - Postdoctoral fellow at HDM, Department of Architecture and Built Environment, Lund University

My main tasks consists of research, teaching and supervision (master and PhD levels). My research focuses on sustainable living in community for better integration and better environment in Sweden. The teaching covers both undergraduate and MSc courses. Courses such as Climate smart architecture and urban design, urban planning, urban renewal, urban shelter and Urban Quality and Urban Form are examples.

2016-19 Researcher at HDM, Department of Architecture and Built Environment, Lund University (Hourly basis)

My main tasks have consisted of research, teaching and some supervision. My research has focused on microclimate, outdoor thermal comfort and climate-conscious urban design in Dar es Salaam, Tanzania and in southern Sweden (the Malmö-Lund region). The research has included microclimate simulations using programmes such as Auto-CAD, ENVI-met and Autodesk CFD. My teaching has been on MSc level. Courses such as Climate smart architecture and urban design,

urban renewal, urban shelter and Urban Quality and Urban Form are examples. I have been supervisor of two diploma work students at BSc level.

2014 -16 Research assistant at HDM, Department of Architecture and Built Environment, Lund University (Hourly basis)

My main tasks have consisted of research, teaching. My research has focused on microclimate, outdoor thermal comfort and climate-conscious urban design in Ecuador, Dar es Salaam, Tanzania and in southern Sweden (the Malmö-Lund region). The research has included microclimate simulations using programmes such as Auto-CAD, ENVI-met. My teaching has been on MSc level. Courses such as Climate smart architecture and urban design, urban shelter and Urban Quality and Urban Form are examples.

2008 -14 PhD student at HDM, Department of Architecture and Built Environment, Lund University

My PhD research was an attempt to develop further understanding of the relationship between microclimate, thermal comfort, and urban design in the hot dry Damascus. The study analyzed and climatically examined the urban planning regulations through simulations, micrometeorological measurements and structured interviews in different urban environments. Furthermore, a parametric study aiming for climate-conscious urban design and planning was carried out using the microclimate simulation software ENVI-met.

2004 -05 Guest lecturer at Faculty of Architecture, Damascus University (Hourly basis)

My main task have considered of teaching architecture and urban design (lectures and tutorials). I have been involved in many projects for the fourth year students. Projects such as residential, commercial, educational, cultural are examples.

Other relevant courses

Ideas for Teaching and Learning in Higher Education	Lund University	2017
Contemporary Didactics in Architectural Education	Lund University	2016
GIS (advance level)	Lund University	2015
GIS for architects& planners	Lund University	2014
Towards a Sustainable Future	Utrecht University	2011
Heritage and Planning	Istituto Svedese (Roma)	2011
Encountring public sapce	Malmö/ Alnarp/APULA	2011
Environmental psychology	Lund University	2009
Urban landscape	Lund University	2009
Competitive Local Economy	Erasmus University	2008

Professional Experience (selection)

- 2013** **Architectural and landscape design for a sea house**
Latakia, Syria.
- 2010–11** **1st Architectural design prize (Cultural center)**
Malmö, Sweden.
- 2007–08** **The free media city (urban planning and design)**
Minstry of media and minsrty of economy.
Damascus, Syria.
- 2005-08** **Chief architect (half time)**
Damascus international Fairgrounds, Minstry of economy.
Damascus, Syria.
- 2005–08** **Chief architect (half time)**
Consultative center for architecture and construction.
Damascus, Syria.
- 2003-05** **Architect (half time)**
Damascus international Fairgrounds, Minstry of economy.
Damascus, Syria.
- 2002–05** **Architect (half time)**
Consultative center for architecture and construction.
Damascus, Syria.

Participation in Seminars/Workshops/Exhibitions (selection)

- 2019 Invited speaker to Friday Breakfast Talk at the Centre for Environmental and Climate Research, CEC, Lunds University
- 2014 Invited speaker to LTH 50th anniversary event (research activity)
<https://www.youtube.com/watch?v=5qYESwNIs54>
- 2009 Participating in the exhibition Talk Climate, Form Design Center, Malmö.
- 2008 Invited speaker to a workshop on climate-conscious design of low-income housing areas in Guayaquil, Ecuador.

Media

- 2014 Selected to be included in the 32nd Edition of a book "Who's Who in the World" for the year 2015.
- 2013 Interview with magazine Arkitekten (Sveriges Arkitekters).
<http://old.arkitekt.se/s78144>
- 2013 Interview with the network Alkompis- På arabiska från Sverige (in Arabic)
<http://www.alkompis.se/interesting/stories/6892/>

Publications

1. Peer-reviewed original articles

- 2017 **Yahia MW**, Johansson E, Thorsson S, Lindberg F “Effect of urban design on microclimate and thermal comfort outdoors in warm-humid Dar es Salaam, Tanzania”. *International Journal of Biometeorology*, Special Issue on Trans-disciplinary approaches to climate change. 0020-7128. DOI 10.1007/s00484-017-1380-7
- 2017 Johansson E, **Yahia MW**, Arroyo I, Bengs C “Outdoor thermal comfort in public space in warm-humid Guayaquil, Ecuador”. *International Journal of Biometeorology*, Special Issue on Trans-disciplinary approaches to climate change, 0020-7128. <https://doi.org/10.1007/s00484-017-1329-x>
- 2014 **Yahia MW**, Johansson E “Landscape interventions in improving thermal comfort in the hot dry city of Damascus, Syria - The example of residential spaces with detached buildings”. *Journal of Landscape and Urban Planning*, 125: 1–16.
- 2013 **Yahia MW**, Johansson E “Influence of urban planning regulations on the microclimate in a hot dry climate: The example of Damascus, Syria”. *Journal of Housing and the Built Environment*, 28 (1): 51–65.
- 2013 **Yahia MW**, Johansson E “Evaluating the behaviour of different thermal indices by investigating various outdoor urban environments in the hot dry city of Damascus, Syria”. *International Journal of Biometeorology*, 57 (4): 615–630.
- 2013 **Yahia MW**, Johansson E “Microclimate in Hot Dry Damascus: The Influence of the Urban Environment on Human Perception”. *Journal of Earth Science and Engineering*, 8 (3): 554–561.

2. Peer-reviewed conference contributions

- 2018 **Yahia MW** Experiential Learning Theory as a Teaching Method in Climate Smart Architecture and Urban Design. Accepted paper for the 10th Educational Inspiration Conference, December 6, 2018, Faculty of Engineering (LTH), Lund University, Sweden.
- 2018 Johansson E, **Yahia MW** wind comfort and solar access in a coastal development in malmö, sweden. 10th International Conference on Urban Climate/ 14th Symposium on the Urban Environment, 6th-10th August 2018, New York, NY.
- 2015 **Yahia MW**, Johansson E. The role of urban design in enhancing the microclimate and thermal comfort in warm-humid Dar es Salaam, Tanzania. The 9th International Conference on Urban Climate (ICUC9), 20th-24th July 2015, Toulouse, France
- 2015 Johansson E, **Yahia MW**. Evaluation of the effect of densification of the built environment on outdoor thermal comfort in warm-humid Dar es Salaam, Tanzania. The 9th International Conference on Urban Climate (ICUC9), 20th-24th July 2015, Toulouse, France

- 2012 **Yahia MW**, Johansson E. Thermal perception and physical characteristics of urban spaces in Damascus, Syria. The 8th International Conference on Urban Climate (ICUC8), 6th-10th August 2012, UCD, Dublin, Ireland.
- 2012 **Yahia MW**, Johansson E. Urban microclimate and thermal comfort in outdoor spaces in hot dry Damascus. The 8th International Conference on Urban Climate (ICUC8), 6th-10th August 2012, UCD, Dublin, Ireland.
- 2012 Johansson E, **Yahia, MW**. The problem of poor microclimate in urban areas in hot dry climates and analysis of existing urban planning regulations. The 4th International Conference on Municipal Management and Urban Development for Sustainability in Arab Cities, 7th-9th May 2012, Kuwait.
- 2011 **Yahia MW**, Johansson E. The influence of environment on people's thermal comfort in outdoor urban spaces in hot dry climates – The example of Damascus, Syria. Architecture and Sustainable Development, In: Bodart M and Evrard A (Eds.), Proceedings of the 27th international Passive and Low Energy Architecture (PLEA) Conference, Louvain-la-Neuve, 13th-15th July 2011, Vol. I, p. 589–594.
- 2011 Johansson E, **Yahia MW**. Subjective thermal comfort in urban spaces in the warm-humid city of Guayaquil, Ecuador. Architecture and Sustainable Development, In: Bodart M and Evrard A (Eds.), Proceedings of the 27th international Passive and Low Energy Architecture (PLEA) Conference, Louvain-la-Neuve, 13th-15th July 2011, Vol. I, p. 577–582.
- 2010 Johansson E, **Yahia MW**. Towards a climate-sensitive urban design- the need to modify current planning regulations. In: Lehmann et al. (Eds.), Sustainable Architecture and Urban Development (SAUD 2010), Proceedings of the 7nd International Conference of the Centre for the Study of Architecture in the Arab Region, Amman, Jordan, 12th-14th July 2010, Vol. II, p. 293–306.

3. Reviewed books

- 2014 **Yahia MW**. PhD thesis. Towards Better Urban Spaces in Harmon with Microclimate: Urban design and planning regulations in hot dry Damascus, Syria. Division of Housing Development & Management (HDM), Dept. of Architecture and Built Environment, ISSN 1652-7666, ISBN-13 978-91-87866-39-5, Lund University, Sweden.
- 2012 **Yahia MW**. Licentiate thesis. Urban Microclimate and Thermal Comfort of Urban Spaces in Hot Dry Damascus: Influence of urban design and planning regulations. Division of Housing Development & Management (HDM), Dept. of Architecture and Built Environment, ISSN 1652-7666, ISBN-13 978-91-87866-37-1, Lund University, Sweden.

4. Technical reports

- 2018 Johansson E, **Yahia MW**. Analysis of the day lighting, microclimate and thermal comfort in the area Djurgården, Linköping. *Analys av mikroklimatet i*

- området Djurgården, Linköping*. Technical report, Avd. Boende och Bostadsutveckling, Lunds universitet.
- 2017a Johansson E, **Yahia MW**. Analysis of wind conditions for western harbor, Malmö. *Analys av vindförhållandena för västra hamnen, Malmö*. Technical report, Avd. Boende och Bostadsutveckling, Lunds universitet.
- 2017b Johansson E, **Yahia MW**. Analysis of the microclimate in the area Djurgården, Linköping. *Analys av mikroklimatet i området Djurgården, Linköping*. Technical report, Avd. Boende och Bostadsutveckling, Lunds universitet.
- 201c7 **Yahia MW** “Experiential Learning Theory in Urban Design”. Article written for the Pedagogical Inspiration Course - Ideas for Teaching and Learning in Higher Education, Faculty of Engineering, Lund University.
- 2016a Johansson E, **Yahia MW**. Analysis of wind conditions for Stora Varvsgatan, Malmö. *Analys av vindförhållandena för Stora Varvsgatan, Malmö*. Technical report, Avd. Boende och Bostadsutveckling, Lunds universitet.
- 2016b Johansson E, **Yahia MW**. Analysis of wind conditions for western harbor, Malmö. *Analys av vindförhållandena för västra hamnen, Malmö*. Technical report, Avd. Boende och Bostadsutveckling, Lunds universitet.
- 2016c Johansson E, **Yahia MW**. Analysis of wind conditions for western harbor, Malmö. *Analys av vindförhållandena för västra hamnen, Malmö*. Technical report, Avd. Boende och Bostadsutveckling, Lunds universitet.
- 2015 Johansson E, **Yahia MW**. Analysis of the microclimate in the central area of Lomma municipality, Sweden. *Analys av mikroklimatet i Lomma*. Technical report, Avd. Boende och Bostadsutveckling, Lunds universitet.
- 2013 Johansson E, **Yahia MW**. Analysis of wind conditions in Linné University, Kalmar, Sweden. *Analys av vindförhållandena i Linnéuniversitetet, Kalma*. Technical report, Avd. Boende och Bostadsutveckling, Lunds universitet

Countries of Work Experience

Sweden, Syria, Middle Eastern Countries, Nigeria, Ecuador and Tanzania.

Countries visited on Missions

Syria, Irland, Belgium, Netherlands, Italy, Spain and Ecuador.

Computer skills

CAD applications	– Auto CAD 2D - 3D, Revit architecture
Design and visualization	– Rhinoceros, Sketch up, 3Dstudio Max
Graphic design applications	– Adobe Photoshop, Adobe InDesign
Office application	– Microsoft Office package
Quantitative analysis	– SPSS
Qualitative analysis	– NVivo
Climate simulation	– ENVI-met, and Autodesk CFD
Thermal comfort	– RayMan and ASHRAE program
Physical planning	– ArcGIS

Languages

English	fluent
Arabic	fluent
Swedish	Very good
French	Intermediate