

# Omar M. Galal



*B.Sc., M.Sc., Dr.-Ing*

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**Google Scholar:** <https://scholar.google.com/citations?user=jZexRC4AAAAJ&hl=en>

## PERSONAL INFO.

*Date of Birth:* 28/11/1986.

*Location of Birth:* Giza, Egypt

*Current Location:* Latakia, Syria

*Marital Status:* Married and father of two daughters

## EDUCATION

**Dr.-Ing, Environmental Urban Design**, Technical University of Berlin, Germany.

2015-2021

Dissertation title: *Controlling Solar Radiation Through Urban Form Manipulation to Improve Thermal Performance of Outdoor Spaces in Upper Egypt: Lessons Learnt from Cairo before Expanding at New Aswan.*

**MSc, Urban Planning Theories**, Faculty of Engineering, Cairo University, EGYPT.

2008-2012

Thesis title: *Utopian Thinking and its Application in Urban Planning.*

2003-2008

**BSc, Architecture Engineering**, The Higher Institute of Engineering of Elshorouk, EGYPT.

## ACADEMIC EXPERIENCE

February  
2023 till  
Present

**Acting Head of Department of Architectural Engineering**, Arab Academy for Science, Technology and Maritime Transport, Latakia Campus, Syria.

2021-2023

**Full Time Assistant Professor at the RIBA Accredited Department of Architectural Engineering and Environmental Design**, Faculty of Engineering, Arab Academy for Science, Technology and Maritime Transport, Smart Village Campus, Giza, Egypt.

2016-2021

**Full Time Assistant Lecturer at the RIBA Accredited Department of Architectural Engineering and Environmental Design**, Faculty of Engineering, Arab Academy for Science, Technology and Maritime Transport, Smart Village Campus, Giza, Egypt.

2013-2016

**Part Time Assistant Lecturer**, Architecture Engineering and Environmental Design Department, Arab Academy for Science, Technology and Maritime Transport (AAST), Smart Village Campus.

2010-2016

**Teacher Assistant**, Higher Institute of Engineering of Elshorouk, Egypt.

## PROFESSIONAL EXPERIENCE

2012- present

- Had the chance to participate as a member of the winning teams of different architectural design competitions.

- In 2012, was one of 10 winning teams out 50 in “Taking Leave” competition which was organized by the British University in Egypt.
- In 2012, won the third prize in a competition for designing the club of the Egyptian Syndicate of Engineering at El-Zamalek.
- In 2013, acquired honorary mention in Alexandria’s Engineers’ Syndicate Club development.
- In 2014, participated in Burj Alarab Housing competition organized by the Egyptian Engineers’ Syndicate.
- In 2015, participated in Planetary Urbanism Competition organized by the German Magazine Arch +.
- In 2015, acquired the Second Prize and the Green Pyramid Prize in the Hope and Work Olympics Competition organised by British University in Egypt, National Institute of Building and Housing and the Egyptian Engineers’ Syndicate.
- In 2016, participated in a competition for designing the club of the Egyptian Syndicate of Engineering at the Fifth District in Cairo.
- In 2019, participated in a competition for designing the gates and entrances of the Shooting Club at El-Dokki.
- 2019, was part of the team winning the third prize for designing an administrative and educational building for AASTMT in Cairo Branch.
- 2022, won an honorable mention in New Alamien City Branding competition.

Freelance Architectural Design Jobs. Participated in miscellaneous design jobs that include and not limited to the following:

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|---------------|--|
| 2010- present | <ul style="list-style-type: none"> <li>- In 2014, participated in the elevation design and rendering for El Azizia Mosque at KSA in coordination with AL REDWAN GROUP OF COMPANIES.</li> <li>- In 2016, participated in the elevation design and rendering of miscellaneous residential blocks for New Vision for Real Estate Investment and Development.</li> <li>- In 2017 participated in the elevation design and rendering of miscellaneous residential blocks for Maalem for Real Estate Investment and Development.</li> <li>- In 2018 till present designed miscellaneous private villas at different locations in Cairo.</li> </ul> |
| 2008-2010     | <ul style="list-style-type: none"> <li>▪ Architecture Designer, Dar El Handasah, Cairo-Egypt.</li> <li>As a member of the architectural design team, I have participated in designing four projects:               <ul style="list-style-type: none"> <li>a- University of Princess Nora for Girls in Saudi Arabia.</li> <li>b- The Knowledge Economic City in Saudi Arabia.</li> <li>c- Burj El Gathafi in the Republic of Libya.</li> <li>d- El Shamia Haram Expansion in Mecca, Saudi Arabia.</li> </ul> </li> </ul>  |

## PUBLICATIONS

Ashraf Adly, M., & Galal, O. M. (2021). The Influence of Diverse Building Height and Building Coverage Ratio on Outdoor Thermal Performance in Hot Climates: A Review. In *Proceedings Article* (pp. 65–71). Alanya Hamdullah Emin Paşa University. <https://doi.org/10.38027/ICCAUA2021161N9>

Sami F.A., Galal O.M. (2021) The Relation Between Walking and Urban Form: Identifying Gaps in Egyptian Literature. In: Alalouch C., Piselli C., Cappa F. (eds) *Towards Implementation of Sustainability Concepts in Developing Countries. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development)*. Springer, Cham. [https://doi.org/10.1007/978-3-030-74349-9\\_4](https://doi.org/10.1007/978-3-030-74349-9_4)

Galal, O. M., Mahmoud, H., & Sailor, D. (2020). Impact of evolving building morphology on microclimate in a hot arid climate. *Sustainable Cities and Society*, 54, 102011. <https://doi.org/10.1016/j.scs.2019.102011>

**Galal, O. M.**, Sailor, D. J., & Mahmoud, H. (2020). The impact of urban form on outdoor thermal comfort in hot arid environments during daylight hours, case study: New Aswan. *Building and Environment*, 184, 107222. <https://doi.org/10.1016/j.buildenv.2020.107222>

Elgabalawy, Kamal; **Galal, Omar** (2019): The Unplanned Morphing of Social Housing in Cairo. A Positive or Negative Phenomena? ARCHCAIRO 8th International Conference "Building the Future Now". Cairo University. Cairo: Cairo University.

**Galal, O. M.** (2019). An Argumentative Review Between Urban Morphology and Energy-Efficient Mobility. In H. Abusaada, C. Vellguth, & A. Elshater (Eds.), *Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design* (pp. 283-309). Hershey, PA: IGI Global. [doi:10.4018/978-1-5225-9238-9.ch013](https://doi.org/10.4018/978-1-5225-9238-9.ch013).

**Galal, O.** (2017). The Impact of Digital Simulations on Planning Energy Efficient and Solar Friendly Urban Communities. SSRN Electronic Journal. Advance online publication. <https://doi.org/10.2139/ssrn.3163428>.

Abd El-Moneim, N., & **Galal, O.** (2017). Cairene Public Realm: An Analysis of the City Public Spaces and its Quality. *SSRN Electronic Journal*. Advance online publication. <https://doi.org/10.2139/ssrn.3163037>

#### **WORKSHOPS, CONFERENCES AND RESEARCH ACTIVITIES**

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|------|---|
| 2017 | <ul style="list-style-type: none"><li>- Attended and presented a paper at the First International Conference on TOWARDS A BETTER QUALITY OF LIFE, at Technical University of Berlin El-Gouna campus Red Sea Region – Egypt.</li><li>- Attended a workshop on teaching and presentation skills at Technical University of Berlin.</li></ul>  |
| 2018 | <ul style="list-style-type: none"><li>- Research member in Adapting Sustainable Urban Planning to Local Climate Change in Egyptian New Towns (Case Study New Aswan) “ASUS” within the German Egypt Research Fund Aswan Univ., Frei Univ. of Berlin.</li><li>- Attended in “ASUS DAY” which was a workshop held with stakeholders and decision makers at Aswan University.</li><li>- Research member in the Urban Studies Foundation Seminar Series Award.</li><li>- Attended and presented at Workshop MEDSOL held in Lisbon.</li></ul>   |
| 2019 | <ul style="list-style-type: none"><li>- Cooperated with Dr. Yuno Tanaka from Tokyo Institute of Technology during her site visit to Cairo as part of the research project “Transformation and improvement of living environment under the initiative of the inhabitants of informal housing areas in Cairo”.</li><li>- Attended and presented a paper at the 8<sup>th</sup> International Conference at Architectural Engineering Department of Cairo University “Building the Future now”.</li><li>- Attended the 2<sup>nd</sup> NSF Sustainable Smart Cities International Workshop in Cairo.</li></ul> |
| 2020 | <ul style="list-style-type: none"><li>- Gave a coffee talk for Amaken Place Making (<a href="https://amakenplacemaking.org/">https://amakenplacemaking.org/</a>) titled: Impact of Evolving Building Morphology on Thermal Comfort at Public Spaces in a Hot Arid Climate.</li></ul>  |
| 2022 | <ul style="list-style-type: none"><li>- Attended and successfully participated in the alumni seminar "Towards climate change mitigation and adaptation in the Global South" held in Berlin, Germany, from September 19th to 24th, 2022.</li></ul>   |
| 2023 | <ul style="list-style-type: none"><li>- Gave a talk during the public webinar "Cultural Exchange on Urban Transformation between the Netherlands and Egypt." This event was organized by the Arab Academy for Science, Technology, and Maritime Transport (SV Campus), the Urban Development Fund from Egypt, and the Cultural Heritage Agency of the Ministry of Education, Culture, and Science from the Netherlands.</li></ul>   |

## TEACHING EXPERIENCE

@ The RIBA  
Accredited  
AASTMT, SV  
Campus

- Graduation Project.
- Design 3 (focused on Structural Innovation).
- Design 2 (focused on response to physical context).
- Design 1 (introductory to architectural design).
- Research and Programming.
- Architectural Drawing.
- Execution Design 1.
- Urban Design.
- Energy and Environment Aspects (environmental design).

## SKILLS

Computer Skills

- Excellent command of AutoCAD 2D, Sketch up and Photoshop.
- Very good command of 3D Max and Lumion.
- Very good command of Microsoft Office.
- Very good command of Envi-MET (micro-climate simulation model).
- Good command of Design Builder (Energy consumption simulation model) and Revit.
- General knowledge of GIS.

Teaching  
Oriented Skills

- Capable of developing design concepts/ideas via free hand sketching and using other computer tools such as SketchUp.
- Through my experience, I gained very good presentational skills and became capable of accurately and flexibly explaining my points of view to different categories of audience.
- I have also had the chance to perform different public lectures in Arabic and English in diverse range of events (orientations, competitions, conferences, workshops, etc...).
- Throughout my work at Arab Academy for Science and Technology and Maritime Transport, I have participated in different committees that included scheduling, academic advising and the central labs committee.
- Organized different events while working at the Higher Institute of Engineering of El-Shorouk and Arab Academy for Science, Technology and Maritime Transport such as annual creativity day or annual architectural department festival.

Practice  
Oriented Skills

- Accumulated significant experience in architectural design through practice, competitions and teaching.
- Especially experienced in massing and façade design.
- Capable of working as a member of a group or a team leader. Lead several teams into winning competition proposals or successful submission of design jobs.
- Utilize research gained knowledge and intellectual skills in my practice.
- Excellent time management as I always had to balance between teaching, practicing and researching in Architecture.
- Capable of efficiently working under pressure and successfully delivering submissions individually or in team at tight deadlines.

Research  
Oriented Skills

- Experienced in using research engines such as Google Scholar to survey the available literature.
- Acted as a reviewer for some of the most distinguished journals in my field such as "Sustainable Cities and Society" and "Building and Environment".
- Experienced in supervising younger researchers and guiding them through proposal formulation, development and research finalization.
- Capable of performing some basic statistical analysis like linear correlation and regression analysis via Microsoft Excel.
- Use citation and referencing software like Citavi.
- Performed various surveys and questionnaires in collaboration with other research partners in planned and informal settlements.

- Participated in measurement campaigns that target measuring climatic variables such as air temperature, relative humidity, wind speed and direction, surface temperature and mean radiant temperature.

## REFERENCES

- |                              |   |
|------------------------------|---|
| Dr. Hatem<br>Mahmoud         | <ul style="list-style-type: none"> <li>- Position: Associate Professor, Egypt-Japan University of Science and Technology</li> <li>- Relationship: Supervised my doctoral research and collaborated on other research activities.</li> <li>- Email: <a href="mailto:hatem.mahmoud@ejust.edu.eg">hatem.mahmoud@ejust.edu.eg</a></li> <li>-</li> </ul>   |
| Dr. Nancy M.<br>Abdel-Moneim | <ul style="list-style-type: none"> <li>- Position: Dean assistant and assistant professor at Arab Academy for Science, Technology and Maritime Transport.</li> <li>- Relationship: my colleague and collaborated on other research activities.</li> <li>- Email: <a href="mailto:nancyabdelmoneim@aast.edu">nancyabdelmoneim@aast.edu</a></li> </ul>  |
| Professor Elke<br>Pahl Weber | <ul style="list-style-type: none"> <li>- Position: Professor at Technical University of Berlin.</li> <li>- Relationship: Supervised my doctoral research.</li> <li>- Email: <a href="mailto:pahl-weber@isr.tu-berlin.de">pahl-weber@isr.tu-berlin.de</a></li> </ul>   |
| Professor David<br>Sailor    | <ul style="list-style-type: none"> <li>- Position: School of Geographical Sciences and Urban Planning at Arizona State University.</li> <li>- Relationship: Collaborated on miscellaneous research activities.</li> <li>- Email: <a href="mailto:david.sailor@asu.edu">david.sailor@asu.edu</a></li> </ul>  |
| Dr. Kareem<br>Nabil          | <ul style="list-style-type: none"> <li>- Position: Assistant professor at Arab Academy for Science, Technology and Maritime Transport.</li> <li>- Relationship: My colleague and collaborated on architectural competitions, teaching design studios and other research activities.</li> <li>- Email: <a href="mailto:kareemnabil.aast@gmail.com">kareemnabil.aast@gmail.com</a></li> </ul> |