

CURRICULUM VITAE

PERSONAL DATA

Name Ahmed Abdeen Abdelrady Saleem
Date of Birth 19 February 1988
Place of Birth Kuwait
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ACADEMIC/PROFESSIONAL PARTICULARS

Field of Specialization **Architecture and Built Environment.**
My research experience involves the quantitative assessment of sustainable technologies, materials, and systems for energy-efficient buildings. These interests focus on the Simulation-based Building Performance Optimization (SB-BPO) and life cycle cost analysis (LCCA)

Academic Qualifications **Ph.D. in Energy Resources Engineering (2015 - 2018)**
Egypt-Japan University of Science and Technology (EJUST)
Completed 18 credit hours (GPA 3.95/4.0)
Thesis: Utilizing passive solar walls to enhance thermal comfort conditions within residential buildings in Egypt
Visiting research scholar (2016 - 2017)
Tokyo Institute of Technology, [Ryo Murata Lab](#), Department of Architecture and Building Engineering.
Completed 4 credit hours (Grade 95/100)
M.Sc. in Energy Resources Engineering (2013 - 2015)
Egypt-Japan University of Science and Technology (EJUST)
Completed 18 credit hours (GPA 3.43/4.0):
Thesis: Experimental and simulation study of the thermal comfort conditions within recent designed government primary schools in Egypt
BEng in Architectural Engineering (2005 - 2010)
Department of Architectural Engineering, Assiut University, Assiut (Egypt)
Cumulative Grade: Very good with Honour (Percentage: 81.5 %)

Academic Honors and Awards **Best poster by young researchers (2016)**
International School on Energy Systems (ISES 2016) hosted by Forschungszentrum Julich
Master and Ph.D. scholarship from Egypt-Japan University of Science and Technology (2013 - 2018)
Full tuition fees and maintenance costs (amounting to \$80000)
Professor Hasan Kamel Architectural Award (2011)
Medal of Honor

Membership of Professional Bodies Member at World Society of Sustainable Energy Technologies (WSSET)
Silver Membership at of KES International organization
Member of the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)
Registered Engineer at Egypt Engineers Syndicate, Assiut, Egypt

CAREER DETAILS

Academic Positions Held	Postdoctoral Research Fellow (Aug 2019 - present) Department of Civil and Environmental Engineering, Carleton University, Ottawa, Canada
	Postdoctoral Researcher (June 2018 – Aug 2019) Informatics Research Unit for Sustainable Engineering (IRUSE), National University of Ireland Galway (NUIG), Ireland
	Assistant Professor (Feb 2018 – Jun 2018) Department of Architectural Engineering, Faculty of Engineering, Assiut University, Egypt.
	Associate Lecturer (Mar 2011 – Feb 2013) Department of Architectural Engineering, Faculty of Engineering, Assiut University, Egypt
Professional/Industrial Positions Held	Architectural Designer / Energy modeler (Feb 2013 – Feb 2017) Distance Studio Consultants (DSC), Giza, Egypt

TEACHING

Summary of Courses Taught	At National University of Ireland Galway <ul style="list-style-type: none">- (CE6117) Integrated Civil Engineering Design project At Department of Architectural Engineering, Assiut University <ul style="list-style-type: none">- (A225) Architectural Design Studio III- (A426) Working Drawing- (A128) Applications of Computer-Aided Design.- (A125) & (A221) Architectural Design Studios I and II.
Participation in Academic Accreditation	Member – Quality Assurance and Accreditation Unit (QAAU) Faculty of Engineering, Assiut University, Egypt
Training	<ul style="list-style-type: none">- International summer school on Energy systems “ISES-2016” at Kloster Seeon in Bavaria, Germany.- Competitive Research proposal Writing” of the further domain “programme preparation” within the DAAD Kairo Akademie- Training program: Technical Building services in Vocational Advancement Service of Construction Industry Association of Berlin-Brandenburg. German Federal Ministry of Foreign Affairs, Germany.- Data science for construction, architecture, and engineering, National University of Singapore

RESEARCH

Research Interests	<ul style="list-style-type: none">- Building performance simulation (BPS), building automation systems (BAS), energy saving solutions, and life-cycle cost analysis (LCCA)- New technologies for responsive building envelope components, solar energy exploitation, and energy management in buildings, focusing on net-zero energy buildings,- Energy simulation as part of the design process, retrofits, and optimization,- Ventilation and indoor air quality analysis,- CFD analysis of airflow within building spaces,- Modelling occupant-building interactions at multiple scales, and- Data-driven analysis in processes optimization
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Publications/Citations Data	Articles in International Refereed Journals:	9 journal papers
	Conference Papers:	4 conference papers
	Books/Book Chapters:	1 book
	Citation Source:	google scholar
	Number of Citations:	117

Research Grants

Role: Group leader
Pre- and post-COVID-19 household energy data analysis to support utility and property.
 Funded by: The Natural Sciences and Engineering Research Council of Canada (NSERC) (50,000 CAD - 12 Months)
Role: Team member
HEAT CHECK (Heating and Temperature Characteristics in Irish Buildings)
 Funded by: Science Foundation Ireland (SFI) (408,432 Euro- 36 Months).
Role: Principal Investigator
Post occupancy evaluations of Irish dwellings built to Passivhaus standards.
 Funded by: Science Foundation Ireland (SFI) (60,000 Euro - 12 Months).

Participation in Regional & International Conferences

2nd International Engineering Conference & Exhibition, IECE 2020. Riyadh, Saudi Arabia in (Mar 2020)
 Workshop on: Workplace of the Future. (Ottawa, Canada in Oct 2019)
 Building Performance Research Centre Mini-Conference 2019. (Ottawa, Canada in Oct 2019)
 7th International Architectural & Urban Conference (IAUC7), Housing for the poor: Problems & Solutions, Department of Architectural Engineering, Assiut University. (Assiut, Egypt, October 2007)

SERVICE

Service as Reviewer

A certified reviewer for the Journals:

- Applied Energy
- Energy and Buildings
- Building and Environment
- Energies

Invited Presentations at Scientific Meetings/Workshops

Simulation-based optimization technique for energy conservation measures of residential buildings
 2nd International Engineering Conference & Exhibition, IECE 2020. Riyadh, Saudi Arabia (Mar 2020)
Optimization Technique for Passive Solar Walls
 Building Performance Research Centre Mini-Conference 2019, Ottawa, Canada (Oct 2019)

LIST OF PUBLICATIONS

International Refereed Journals

Ahmed, M.M.S., Radwan, A., Serageldin, A. **A., Abdeen**, A., Abo-Zahhad, E.M., Nagano, K., 2021. The thermal potential of a new multifunctional sliding window. Sol. Energy 226, 389–407. <https://doi.org/10.1016/j.solener.2021.08.045>

Abdeen, A., Kharvari, F., O'Brien, W., Gunay, B., 2021. The impact of the COVID-19 on households' hourly electricity consumption in Canada. *Energy Build.* 250, 111280. <https://doi.org/10.1016/j.enbuild.2021.111280>

Villeneuve, H., **Abdeen, A.**, Papineau, M., Simon, S., Cruickshank, C., O'Brien, W., 2021. New Insights on the Energy Impacts of Telework in Canada. *Can. Public Policy* e2020157. <https://doi.org/10.3138/cpp.2020-157>

Serageldin, A.A., **Abdeen, A.**, Ahmed, M.M.S., Radwan, A., Shmroukh, A.N., Ookawara, S., 2020. Solar chimney combined with earth to-air heat exchanger for passive cooling of residential buildings in hot areas. *Sol. Energy* 206, 145–162. <https://doi.org/10.1016/j.solener.2020.05.102>

Abdeen, A., Kharvari, F., O'Brien, W., Gunay, B., 2021. The impact of the COVID-19 on households' hourly electricity consumption in Canada. *Energy Build.* 250, 111280. <https://doi.org/10.1016/j.enbuild.2021.111280>

Abdeen, A., Serageldin, A.A., Ibrahim, M.G.E., El-Zafarany, A., Ookawara, S., Murata, R., 2019. Solar chimney optimization for enhancing thermal comfort in Egypt: An experimental and numerical study. *Sol. Energy* 180, 524–536. <https://doi.org/10.1016/j.solener.2019.01.063>

Abdeen, A., Serageldin, A.A., Ibrahim, M.G.E., El-Zafarany, A., Ookawara, S., Murata, R., 2019b. Experimental, analytical, and numerical investigation into the feasibility of integrating a passive Trombe wall into a single room. *Appl. Therm. Eng.* 154, 751–768. <https://doi.org/10.1016/j.applthermaleng.2019.03.090>

Abdeen, A., Bady, M., Ookawara, S., Abdel-Rahman, A.K., 2016. Achieving standard natural ventilation rate of dwellings in a hot-arid climate using solar chimney. *Energy Build.* 133, 360–370. <https://doi.org/10.1016/j.enbuild.2016.10.001>

Abdeen, A., Abel-Rahman, A.K., Ali, A.H.H., Ookawara, S., 2016. An Analysis of Thermal Comfort and Energy Consumption within Public Primary Schools in Egypt. *IAFOR J. Sustain. Energy Environ.* 3. <https://doi.org/10.22492/ijsee.3.1.03>

Conference Papers

Abdeen, A., O'Brien, W., Gunay, B., Newsham, G. & Knudsen, H., Verification of occupant-related aspects of the National Building Code in Canada, accepted in Building Simulation Meets Building Data, eSIM 2020, Vancouver, British Columbia, Canada.

Abdeen, A. Simulation-based optimization technique for energy conservation measures of residential buildings, proceedings of the 2nd International Engineering Conference & Exhibition, IECE 2020, Riyadh, Saudi Arabia

Abdeen, A. M. Bady, S. Ookawara, A.K. Abdel-Rahman, Solar Chimney Design for Standard Ventilation Rate of Residential Buildings in a Hot-Arid Climate, proceedings of the 9th international conference on indoor air quality, ventilation & energy conservation in buildings, Incheon, South Korea.

Abdeen, A. Abel-Rahman, A. Ali, and S. Ookawara, "Experimental study on thermal comfort conditions in existing primary school buildings in Egypt," proceedings of the Sustainability in Energy and Buildings, SEB-14, Cardiff, Wales, UK.

Books

Ali, A. and **Abdeen, A.**, Thermal Comfort Conditions Within Primary Schools in Hot Arid Areas: Case Study of the Existing Schools Design in Egypt. Noor Publishing, 2016

References

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