

1. Personal details

Name: Tamir El-Khouly
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<https://eng.asu.edu.eg/profile/view/955>

2. Education and degrees completed

2007-2015	PhD in the Built Environment (Architecture), Bartlett School of Architecture, UCL Faculty of Built Environment, University College London, UK; entitled: ‘Creative Discovery in Architectural Design Processes: An empirical study of procedural and contextual components.’: https://discovery.ucl.ac.uk/id/eprint/1467244/
2000-2005	MSc in Architecture Engineering, Department of Architecture, Faculty of Engineering, Ain Shams University (ASU), Cairo, Egypt.
1995-2000	BSc in Architecture Engineering (Honours), Department of Architecture, Faculty of Engineering, Ain Shams University (ASU), Cairo, Egypt (Distinction with Honours - Ranked 2nd over 174 Students).

3. Current position

07/2017 – Present:	Assistant Professor in Architecture (Digital Communication and Building Information Modelling), Department of Architecture, School of Sciences and Engineering, The American University in Cairo AUC
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4. Previous work experience**Academic**

Jan - July 2017:	Research Associate in Design Studies, Dyson School of Design Engineering, Imperial College London, UK
May 2016 - Present:	Lecturer in Architecture, Department of Architecture, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
April - Sept. 2015:	Research Associate, Bartlett School Environment, Energy & Resources BSEER, UCL Faculty of Built Environment, University College London UCL.
Sept. 2007 - April 2015:	Research Assistant in Design Studies, Space Syntax Laboratory, Bartlett School of Architecture (Formerly: Bartlett School of Graduate Studies), UCL Faculty of Built Environment, University College London UCL.
June 2005 - April 2016:	Assistant Lecturer, Department of Architecture, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
Sept. 2000 - July 2005:	Teaching Assistant, Department of Architecture, Faculty of Engineering, Ain Shams University, Cairo, Egypt.

Professional

2016-Present:	Director & Principal Architect, TEK DESIGN LTD UK ^(^{ek}) ; a registered company in UK companies house (Company number 10359544) Design Concept & Development, Technical CAD/BIM packages (RIBA Stages: A: E)
Aug - Nov 2016:	Consulting Architect - BIM Package Delivery, John Robertson Architects JRA, London, UK. RIBA Stage E
Jan - Aug 2016:	Consulting Architect - BIM Package Delivery, ADAM Architecture, Winchester, UK. RIBA Stages C: E.
2014 - 2015:	Consulting Architect - Strategic Planning Phase, Buro Happold Engineering, London, UK.
2008 - 2009:	Project Architect - Full CAD Package Delivery, Clifford Tee + Gale [CTG] London, UK. RIBA Stages D: E.
2007 - 2008:	Assistant Architect, Design Development, CAD Package, Catalyst Regeneration Ltd., Birmingham, UK. RIBA Stages B: C.

2004 - 2007: Assistant Architect, Design Development, CAD Package, BARB Services Ltd., Birmingham, UK. RIBA Stages B: C.

5. Research and funding grants

Principle Investigator

- 2021 – 2022: Faculty Research Support Grant, The American University in Cairo AUC (20000\$), ‘*On Sustainable Urbanism: Towards multi-criteria decision-making model for new cities’ development in Egypt*’.
- 2020 – 2021: Provost Honorary Grant, The American University in Cairo AUC (10000\$), ‘*Environmental Design Studies, Digital Design Studies and Design Tool Development*’.
- 2018 – 2020: Faculty Research Support Grant, The American University in Cairo AUC (10000\$), ‘*Design cognition and machine learning: Towards a simulation model to capture the thinking styles in architectural design processes*’.
- 2015: Research Associate; Bartlett School of Environment, Energy and Resources, University College London (BSEER, UCL), led by Professor Alexi Marmot, for Guangzhou City Construction and Development Co. LTM. (£100000), ‘*Research on Guidelines for Mixed-Use Development, Guangzhou, South China*’.
- 2012: Research Associate; Platform Grant, Space Syntax Centre, Bartlett School of Graduate Studies, University College London.

6. Leadership and supervision experience

- 2019 – Present: Co-supervisor of MSc students at Department of Architecture, Ain Shams University, Egypt.
- 2011 – 2015: **Co-supervisor** of MSc students at Space Syntax Laboratory, Bartlett School of Architecture, University College London UCL.

7. Teaching experience

- 2017 - Present: Department of Architecture, The American University in Cairo, Egypt at BSc level on digital design and building information modelling.
- 2016 - 2017: Department of Architecture, Ain Shams University, Egypt at BSc level on architectural design studio, technical drawings, theories of architecture, and senior project.
- 2011 - 2015: Space Syntax Laboratory, Bartlett School of Architecture, University College London UCL at MSc level on Space Syntax Theory and design studies.
- 2000 - 2006: Department of Architecture, Ain Shams University, Egypt at BSc level on architectural design studio, technical drawings, theories of architecture, and senior project.

8. Experience in organizing scientific events

Initiator and Track Chair

- (1) Co-member, Scientific Committee: International Conference of the Arab Society for Computer Aided Architectural Design ‘ASCAAD 2021’.
- (2) ‘**Studying the Design Process: Qualitative and Quantitative Approaches**’, *The Fifth International Conference on Design Computing and Cognition DCC’12* (Texas: June, 6th 2012). <http://mason.gmu.edu/~jgero/conferences/dcc12/workshops/workshop-6.html>
- (3) ‘**Mind & Drawing**’; Advanced Architectural Studies MSc programme, the Bartlett School of Graduate Studies, UCL (London: May 2010).

9. Awards and Honorary nominations

- 2017: “**FINALIST**”: The Entrepreneurial Award, organised by Britain Embassy in Egypt and British Council, Hosted by His Excellence, HMA John Casson, Britain Ambassador in Egypt (2017): <https://www.britishcouncil.org/en/study-uk/alumni/awards/finalists>
- 2016: “**SHORTLISTED**” in the RIBA PRESIDENT’S AWARDS FOR RESEARCH, Organised by the ROYAL INSTITUTE OF BRITISH ARCHITECTS (October, 2016): <https://www.architecture.com/-/media/gathercontent/presidents-awards-for-research-2016-book-of-abstracts/additional-documents/ribapresidentsawardsforresearch2016bookofabstractspdf.pdf>
- 2006: 1st. and 2nd. Awards of the Ministry of Middle Class Housing Prototypes Design Competition (two prototypes), The Egyptian Ministry of Housing, Egypt.

- 2005: Exemplar Assistant Lecturer Award, Ain Shams University, Egypt.
 2004: Exemplar Assistant Lecturer Award, Ain Shams University, Egypt.
 2003: Visionary Youth Award, The Egyptian Ministry of Culture, Egypt.
 2002: Future Architects Award, The Egyptian Society of Architects ESA, Egypt.
 2001: 2nd. Honorary Award, 'IT architecture', Medina Magazine International Competition for Visionary Architects: Smart Village Cultural and Business Centre, Egypt, refereed by architects: Marcos Novak (USA), Andrew Gollifer (UK), & Tarek Naga (USA).
 1998: Exemplar Student Award, Ain Shams University, Egypt.

10. Presentations filmed

- 2019: 'A Macroscopic View of Water Management of the New Administrative Capital City of Egypt: Assessing the capability of the urban structure to face various states of flood risk', 12th Space Syntax symposium, Beijing JiaoTong University, Beijing, China 2019.
 2014: '*Is Design 'Hierarchical' or 'Transformative' Process?*' The Bartlett PhD Conference, University College London 2014. <https://www.youtube.com/watch?v=66gNvKA2eLI>

11. Other key scientific, academic or professional merits

- Reviewer of papers** (2018-) submitted e.g. to Journals of *Sustainable Cities and Society SCS*, *Research in Engineering Design RIED*.
Invited Speaker (1) '**Insights into what it means to think and design as a creative architect**', *EU-Korea Conference on Science and Technology (Engineering & Technology)*, (Strasbourg: July, 25th, 2015). http://ekcconference.org/?page_id=749
 (2) '**Is Design a Hierarchical or a Transformative Process?**' *EU-Korea Conference on Science and Architecture*. (Vienna: July, 25th, 2014). <http://www.ekc2014.org/program/spinvited>

12. Memberships and positions of trust in scientific societies

- 2012 - 2013: RIBA Membership.
 2000 - Present: Member, The Egyptian Syndicate of Engineers ESE.
 2000 - Present: Member, The Egyptian Society of Architects ESA.

13. Scientific Impact

20+ publications of which H-index 3, i-10 index 2: 35 citations (Google Scholar).

Certificates and samples of portfolio are available upon request

Publication List – Tamir El-Khouly, PhD, MSc, BSc

- El-Diasty, A., El-Khouly, T., Hegazi, Y. (2020) Towards a multi-criteria decision making for urban built heritage conservation, *Analysing the Spatial Morphology of Rosetta City, Egypt*, *Ain Shams Engineering Journal*, Vol. ahead-of-print No. ahead-of-print.
- Ibrahim, G.M.A., Saeed, T.A. and El-Khouly, T. (2020), *The transition of spatial organisation planning of pre and post-colonial housing in Khartoum*, [Archnet-IJAR](https://doi.org/10.1108/ARCH-04-2020-0075), Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/ARCH-04-2020-0075>
- Elrawy O.O., El-Khouly T., Abdallah O. (2020) Evaluating the Architectural Designs Using Machine Learning: The Case of Two Modes. In: Kamel S. et al. (eds) *Architecture and Urbanism: A Smart Outlook*. Springer, Cham. https://doi.org/10.1007/978-3-030-52584-2_5
- Abdeldayem W.S., El-Khouly T. (2020) Investigating the Urban Structure of Newly Planned Cities in Egypt: The Case Study of New Cairo City. In: Kamel S. et al. (eds) *Architecture and Urbanism: A Smart Outlook*. Springer, Cham. https://doi.org/10.1007/978-3-030-52584-2_28
- El-Rawy, O., El-Khouly, T., Abdallah, O. (2019c) Evaluating the architectural designs using Machine Learning (ML): The case of two modes. in *Proceedings of the Third International Conference of Architecture and Urban Planning*, "Architecture & Urbanism... A Smart Outlook", 98-1:10.
- Abdeldayem W. and El-Khouly, T. (2019b) Investigating the urban structure of newly planned cities in Egypt: The case study of New Cairo City. in *Proceedings of the Third International Conference of Architecture and Urban Planning*, "Architecture & Urbanism... A Smart Outlook" ARUP, 108-1:7.
- Abdeldayem W. and El-Khouly, T. (2019a) [A macroscopic view of water management of the new Administrative capital city of Egypt: Assessing the capability of the urban structure to face various states of flood risk](#). In *Proceedings of 12th Space Syntax Symposium, Beijing, (SSS12 2019)*, 439-1:18.
- El-Khouly T. (2019) Demystifying the Creative Qualities of Evolving Actions in Design Reasoning Processes. In: Gero J. (eds) *Design Computing and Cognition '18*. DCC 2018. Springer, Cham. https://doi.org/10.1007/978-3-030-05363-5_7
- El-Khouly, T. (2018) Demystifying the creative qualities of evolving actions in design reasoning processes. In *Proceedings of the 8th International Conference on Design Computing and Cognition (DCC'12)*, Politecnico di Milano, Lecco Campus on Lake Como (near Milan), Italy, 2-4 July 2018
- El-Khouly, T. (2015b) Insights into what it means to think and design as a creative architect. EU-Korea Conference On Science and Technology (Strasbourg: July, 25th, 2015)
- El-Khouly, T (2015a) Creative Discovery in Architectural Design Processes: An empirical study of procedural and contextual components. Doctoral thesis, UCL (University College London).
- El-Khouly, T. (2014b) Is Design a Hierarchical or a Transformative Process? EU-Korea Conference On Science and Technology (Vienna: July, 25th, 2014)
- El-Khouly, T (2014a) Is Design 'Hierarchical' or 'Transformative' Process? The Bartlett PhD Conference 2014.
- El-Khouly, T and Penn, A (2013) Directed Linkography and Syntactic Analysis: Comparing Synchronous and Diachronic Effects of Sudden Emergence of Creative Insights on the Structure of the Design Process. In Proceedings of 9th Space Syntax Symposium (SSS9 2013), Seoul, Korea, 31 Oct ~ 3 Nov 2013.
- El-Khouly, T (2013) The structure of reasoning and emergence of creative insights in architectural design process. In *digital proceedings of the Fifth International Congress of International Association of Societies of Design Research (IASDR 2013)*, Tokyo, Japan, 26-30 August 2013.
- El-Khouly, T and Penn, A (2012b) On An Integrated Analytical Approach to Describe Quality Design Process in Light of Deterministic Information Theory. In Proceedings of the 5th International Conference on Design Computing and Cognition (DCC'12), College Station – Texas, 5-9 June, 2012.

El-Khouly, T and Penn, A (2012a) Order, Structure and Disorder in Space Syntax and Linkography: Intelligibility, Entropy, and Complexity Measures. In Proceedings of 8th Space Syntax Symposium, Santiago De Chile, (SSS8 2012), pp. 8242:1 – 22.

El-Khouly, T. (2012) Studying the Design Process: Qualitative and Quantitative Approaches. The Fifth International Conference on Design Computing and Cognition DCC'12 (Texas: June, 6th 2012)

El-Khouly, T and Dalton, R C (2010) Mind & Drawing: The Mutual Effect of Internal & External Cognitive Structures on Architecture Problem Solving Process. A Poster in the 4th Conference of Design Computing and Cognition, (DCC 2010), Stuttgart.

Abdelmohsen, S & El-Khouly, T (2009) Representing Reflective Practice in a Remote Design Collaboration Process. In digital proceedings of the International Association of Societies of Design Research (IASDR 2009), COEX, Seoul, Korea, pp. 1317 – 1326.

El-Khouly, T (2009) Examining the Effect of Reflective Practice On the Ability to Overcome Fixation Effects in a Remotely-Located Collaborative Design Process. Un-published Pilot Study, Bartlett School of Graduate Studies, UCL.

El-Khouly, T. (2008) Algorithmic Architecture of the SON-O-House by NOX. Un-published Pilot Study, Bartlett School of Graduate Studies, University College London UCL.

El-Khouly, T. (2008) Embodiment to form a model of Human Computer Interaction. Un-published Pilot Study, Bartlett School of Graduate Studies, University College London UCL.

El-Khouly, T. (2008) Physical Interactivity as a Design Process in order to consider Human Behaviour in a particular Space. Un-published Pilot Study, Bartlett School of Graduate Studies, University College London UCL.

El-Khouly, T. (2005) Image's Significance in The Architecture of Contemporary Mosque. Un-published MSc Thesis, Ain Shams University, Cairo, Egypt.