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Filipa Osório

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Curriculum

Filipa Crespo Osório graduated in Architecture at the Department of Architecture of the University of Coimbra (DARQ-FCTUC) in 2006. After graduation she worked in architecture offices in Barcelona and Lisbon and in 2012/13 returned to the academic world to attend the Course on Advanced Studies in Digital Architecture at ISCTE-IUL.In 2020 she concluded her PhD thesis at ISCTE-IUL, ISTAR-IUL with title "Origami Surfaces for Kinetic Architecture", with a grant funded by the Foundation for Science and Technology (Ref. SFRH / BD / 100818 / 2014).
Nowadays she is an integrated researcher at ISTAR-IUL, architect at Linha Alterada, Lda and teaches Software at LSD - Lisbon School of Design.

Research Interests

Digital Architecture, Parametric Design, Origami Geometry, Kinetic Architecture, Shell-Structures

Academic Qualifications

University/Institution	Type	Degree	Period

ISCTE-Instituto Universitario de Lisboa - Centro de Investigacao em Ciencias da Informacao Tecnologias e Arquitetura	PhD	Doutoramento em Arquitectura dos Territórios Metropolitanos Contemporâneos - Arquitectura Digital	2020
ISCTE-IUL	Post-graduation	Curso de Estudos Avançados em Arquitectura Digital	2013
Universidade de Coimbra	Licenciate	Arquitectura	2006

External Professional Activities

Period	Employer	Country	Description
Since 2019	FOLD, Lda	Portugal	
Since 2015	LSD - Lisbon School of Design	Portugal	

Supervisions

• M.Sc. Final Projects

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Tiago Filipe Pinheiro Batista	Music and Architecture	Portuguese	Iscte	2016

Total Citations

Web of Science®	6
Scopus	3

Publications

• Scientific Journals

- Scientific journal paper

1	Osório, F. C., Paio, A. & Oliveira, S. M. (2023). A kinetic origami surfaces methodology. Architectural Science Review, 67(1), 23?46. https://doi.org/10.1080/00038628.2023.2182270 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 4

2	Paio, A., Osório, F. C., Oliveira, S. M., Valenti, Graziano Mario & Guimarães, N. (2018). Architecture In-Play, future challenges. Nexus Network Journal, 20(1), 15?30. https://doi.org/10.1007/s00004-017-0365-5
3	Osório, F. C., Paio, A. & Oliveira, S. (2018). Origami tessellations: folding algorithms from local to global. Boletim da Aproged,(34). - Times Cited Google Scholar: 3

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Couceiro, M., Domingos, L., Osório, F. C., Oliveira, C. & Manaia, M. (2025). Reimagining human-nature coexistence: An integrative approach to architectural design with biomimicry, generative modeling, and AI. In Bruno Marques, Catarina Ruivo, David Leite Viana, Jorge Vieira Vaz (Ed.), Formal Methods in Architecture: Proceedings of the 7th International Symposium on Formal Methods in Architecture (7FMA) (pp. 207?217). Springer. https://doi.org/10.1007/978-3-032-02782-5_11
2	Oliveira, M. J. & Osório, F. (2020). Nature pleated surfaces. In Sara Eloy, David Leite Viana, Franklim Morias, Jorge Vieira Vaz (Ed.), Formal methods in architecture: Proceedings of the 5th International Symposium on Formal Methods in Architecture (5FMA) (pp. 101?114). Springer. https://doi.org/10.1007/978-3-030-57509-0_10
3	Osório, F. C., Paio, A., Oliveira, S., Casale, A., Valenti, G. & Calvano, M. (2017). Foldable responsive surfaces: two design studios with a comprehensive workflow. In Antonio Fioravanti, Stefano Cursi, Salma Elahmar, Silvia Gargaro, Gianluigi Loffreda, Gabriele Novembri, Armando Trento (Ed.), eCAADe 2017 – ShoCK! (pp. 355?362). eCAADe (Education and Research in Computer Aided Architectural Design in Europe) and Dep. of Civil, Building and Environmental Engineering, Faculty of Civil and Industrial Engineering, Sapienza University of Rome. - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
4	Osório, F. & Oliveira, S. (2017). Origami folded surfaces: kinetic system behind the folding. In Maria João Oliveira, Filipa Crespo Osório (Ed.), Kine[SIS]tem - From Nature to Architectural Matter Conference Proceedings (pp. 28?35). DINÂMIA'CET-IUL. - Times Cited Web of Science®: 1 - Times Cited Google Scholar: 3
5	Osório, F. C., Paio, A. & Oliveira, S. (2017). Origami tesselations: folding algorithms from local to global. In Vera Viana (Ed.), Geometrias'17 Proceedings. APROGED.
6	Osório, F., Paio, A. & Oliveira, S. (2017). Kinetic origami surfaces: from simulation to fabrication. In Gülen Ça?da?, Mine Özkar, Leman F. Gül and Ethem Gürer (Ed.), Future Trajectories of Computation in Design [17th International Conference, CAAD Futures 2017, Proceedings (pp. 229?248). Istanbul Technical University. - Times Cited Web of Science®: 4 - Times Cited Google Scholar: 9
7	Neves, S., Sousa, J. & Osório, F. C. (2016). Interactive design for everyone: from folding to programing. In Nuno Guimarães, Alexandra Paio, Sancho Oliveira, Filipa Crespo Osório, Maria João Oliveira (Ed.), Architecture In-Play International Conferences Proceedings (pp. 241?246). Instituto Universitário de Lisboa. https://doi.org/978-989-732-805-3

8	Osório, F., Paio, A. & Oliveira, S. (2014). KOS - kinetic origami surface. In N. Gu, S. Watanabe, H. Erhan, M. Hank Haeusler, W. Huang, R. Sosa (Ed.), Proceedings of the 19th International Conference on ComputerAided Architectural Design Research in Asia CAADRIA 2014 (pp. 201?210). CumInCAD. https://doi.org/10.52842/conf.caadria.2014.201
9	Osório, F. C. (2014). Geometry of Kinetic folded surfaces. Geometrias'14 Proceedings. Aproged.
10	Osório, F., Paio, A. & Oliveira, S. (2014). Interaction with a kinetic folded surface. In Emine Mine Thompson (Ed.), ECAADe 2014: Proceedings of the 32rd International Conference on Education and Research in Computer Aided Architectural Design in Europe (pp. 605?612). Northumbria University Newcastle.
11	Osório, F. C., Paio, A. & Oliveira, S. (2014). Interaction with a Kinetic folded surface. In Emine Mine Thompson (Ed.), eCAADe 2014 (pp. 605?612). eCAADe (Education and research in Computer aided Architectural Design in Europe) and Department of Architecture and Built Environment, Faculty of Engineering and Environment, Northumbria University. - Times Cited Scopus: 1

- Conference proceedings editor

1	Oliveira, M.J. & Osório, F. C. (2017). KINESISTEM'17_From Nature to Architectural Matter. DINÂMIA'CET - IUL.
2	Guimarães, N., Paio, A., Oliveira, S., Osório, F. C. & Oliveira, M.J. (2016). Architecture in-play International Conferences Proceedings. ISCTE-IUL.

- Talk

1	Osório, F. C., Paio, A. & Oliveira, S. (2017). ORIGAMI TESSELATIONS: FOLDING ALGORITHMS, FROM LOCAL TO GLOBAL. Geometrias'17: Pensar, Desenhar e Modelar,.
2	Osório, F. C., Paio, A. & Oliveira, S. (2017). Kinetic Origami Surfaces: From Simulation to Fabrication. Future Trajectories of Computation in Design [17th International Conference, CAAD Futures 2017,.
3	Osório, F. C., Paio, A., Oliveira, S., Casale, A., Valenti, G. & Calvano, M. (2017). Foldable Responsive Surfaces - Two Design Studios with a Comprehensive Workflow. ShoCK! - Sharing Computational Knowledge!, 35th eCAADe Conference,.

• Other Publications

- Non-peer-reviewed papers

1	Osório, F. C., Paio, A. & Oliveira, S. M. (2026). Kinetic Architecture: A comprehensive classification of motion structures. Journal of Architectural Engineering,.

- Other publications

1	Osório, F. C. (2019). Origami Surfaces for Kinetic Architecture..
2	Osório, F. C. (2006). Viagem pela Habitação Social. um novo caminho,.

- Doctoral Thesis

1	Osório, F. C. (2019). Origami Surfaces for Kinetic Architecture., i?304.

Awards

Scientific Award by ISCTE- University Institute of Lisbon (2019)

Professional Associations

Order of Architects (Since 2007)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event committee	eCAADe 2023 – Digital Design Reconsidered	Graz University of Technology, Austria	2023
Member of scientific event committee	CAAD Futures - INTERCONNECTIONS: Co-computing beyond boundaries	TU Delft, Netherlands	2023
Member of scientific event committee	Sigradi 2022 – Critical Appropriations	UPC - Universidad Peruana de Ciencias Aplicadas, Lima, Peru	2022
Coordination of scientific event (with scientific committee) at ISCTE-IUL	KINE[SIS]TEM'17 - From Nature to Architectural Matter	ISCTE-IUL	2017
Coordination of scientific event (with scientific committee) at ISCTE-IUL	Architecture INPLAY	ISCTE-IUL	2016

Scientific Editing/Reviewing Activities

Type of Activity	Journal Title	ISSN/Quartile	Period	Language
Member of scientific journal editing staff	Journal of Asian Architecture and Building Engineering	13472852 / Q1	2023	English