



Academic Personnel Short Profile / Short CV

University:	Neapolis University Pafos
Surname:	Duarte Pereira da Conceicao Mendes
Name:	Joao Mendes
Rank/Position:	Associate Professor
Faculty:	
Department:	Department of Civil Engineering
Scientific Domain: *	Geotechnics, Material Science

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD in Civil Engineering	2011	Durham University, UK	School of Engineering and Computing Sciences	<i>Assessment of the impact of climate change on an instrumented embankment: an unsaturated soil mechanics approach</i>
Licenciatura in Engineering Geology	2005	Universidade de Coimbra, Portugal	Departamento das Ciencias da Terra e da Vida	



Employment history in Academic Institutions/Research Centers – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2017	2025	Northumbria University at Newcastle	UK	Assistant Professor in Civil Engineering
2016	2017	Durham University	UK	Research Associate
2014	2016	University of Pau and Pays de l'Adour	France	EU “Marie Curie” Experienced Research Fellow

Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2024	Novel multi-scale experimental approach and deep learning model to optimize capillary pressure evolution in early age concrete 10.1016/j.cemconres.2024.107490	Armin Jamali Afshin Marani James Railton Moncef L Nehdi Brabha Nagaratnam Michael Lim	Cement and Concrete Research	180	
2	2024	Micro computed tomography images of capillary actions in rough and irregular granular materials 10.1038/s41597-024-02925-w	Sadegh Nadimi Alejandro López Laurenz Schröer Sojwal Manoorkar Sharon Ellman Veerle Cnudde Agostino W Bruno	Scientific data	11(1)	
3	2023	Evaluating innovative direct and indirect soil suction and volumetric measurement techniques for the determination of soil water retention curves following drying and wetting paths 10.1016/j.enggeo.2023.107179	Abdallah Najdi David Encalada Joao Mendes Pere C Prat Alberto Ledesma	Engineering Geology	322	
4	2023	Monitoring of Capillary Pressure Evolution in Young	Armin Jamali Brabha Nagaratnam	International RILEM Conference on	1	289-300



		Age Concrete Using High Capacity Tensiometers 10.1007/978-3-031-33211-1_26	Michael Lim	Synergising expertise towards sustainability and robustness of CBMs and concrete structures, Milos, Greece		
5	2023	High Capacity Tensiometers: performance and behaviours 10.1051/e3sconf/202338222001	Armin Jamali Abdallah Najdi David Encalada Agostino W Bruno Pere C Prat Olivier Buzzi Domenico Gallipoli Alberto Ledesma David Toll	8th International Conference on Unsaturated Soils (UNSAT 2023), Milos, Greece	382	
6	2023	Influence of compaction on the soil shrinkage and swelling curves 10.1051/e3sconf/202338201002	David Encalada Abdallah Najdi Pere C Prat Alberto Ledesma	8th International Conference on Unsaturated Soils (UNSAT 2023), Milos, Greece	382	
7	2022	A new four stage model of capillary pressure in early age concrete: Insights from high capacity tensiometers 10.1016/j.cemconres.2022.106955	Armin Jamali Brabha Nagaratnam Michael Lim	Cement and Concrete Research	161	
8	2022	Testing and Monitoring of Earth Structures doi.org/10.1007/978-3-031-05875-2_4	Rafaela Cardoso Anna Ramon-Tarragona Sérgio Lourenço Marco Caruso Cristina Jommi	Advances on Testing and Experimentation in Civil Engineering: Geotechnics, Transportation,		85-111



				Hydraulics and Natural Resources		
9	2022	Towards the development on new high capacity tensiometers capable of measuring soil matric suction beyond 3 MPa 10.1139/cgj-2021-0605	Abdallah Najdi David Encalada Pere C Prat Alberto Ledesma	Canadian Geotechnical Journal	59(9)	1539-1552
10	2022	Hydromechanical behaviour of two unsaturated silts: laboratory data and model predictions doi.org/10.1139/cgj-2021-0170	Agostino W Bruno Domenico Gallipoli	Canadian Geotechnical Journal	59(6)	837-846



Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
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*Specify venue, geographic location etc



Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2024-2028	MODEST - Modelling drying effects on soil investigation technologies PID2023-149935OB-I00	Ministerio De Ciencia, Innovación Y Universidades, Proyectos De Generación De Conocimiento, 2023, Spain	External Project Member Member of steering committee/group
2	2025-2027	University of Northumbria and Zetica Ltd KTP 24_25 R4	Knowledge Transfer Partnerships, Innovate UK, UK	Formerly CO-Project Coordinator Currently member of steering committee/group
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*



**Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees.
List the five (5) more recent (Optional Entry)**

Ref. Number	Period	Organization	Title of Position or Service	Key Activities
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Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2024	GIATEC 2024 Best Paper Award – Runners-ups, for the paper “Novel multi-scale experimental approach and deep learning model to optimize capillary pressure evolution in early age concrete” (doi:10.1016/j.cemconres.2024.107490)	GIATEC Scientific Inc.
2	2023	Canadian Geotechnical Society’s 2023 R.M. Quigley Award – Honourable Mention, for the paper published in the Canadian Geotechnical Journal in 2022: “Towards the development on new high capacity tensiometers capable of measuring soil matric suction beyond 3 MPa” (doi:10.1139/cgj-2021-0605)	The Canadian Geotechnical Society
3	2018	Materials and Structures Outstanding Paper 2018 Award for the paper “A microstructural insight into the hydro-mechanical behaviour of a stabilised hypercompacted earth” (doi.org/10.1617/s11527-018-1160-9)	RILEM - The International Union of Laboratories and Experts in Construction Materials, Systems and Structures
4	2013	Canadian Geotechnical Journal editor’s choice of the month for August, for the paper “New insight into cavitation mechanisms in high-capacity tensiometers based on high-speed photography”	Canadian Geotechnical Journal



		(doi.org/10.1139/cgj-2012-0393)	
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**Other Achievements. List the five (5) more recent and other five (5) selected.
(max total 10) (Optional Entry)**

Ref. Number	Date	Title	Key Activities:
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