

Resume of Curriculum Vitae

1. Professional data/activity

<i>Full name</i> António Joaquim Pereira Viana da Fonseca		<i>Date of birth</i> 12/07/1962	<i>Country</i> Portugal
<i>E-mail</i> viana@fe.up.pt		<i>Phone number</i> (351)225081730	
<i>Institution</i> Faculty of Engineering of the University of Porto (FEUP)			<i>Present position</i> Associate Professor
<i>Department</i> Civil Engineering			
<i>Office address</i> Rua Dr Roberto Frias, s/n • 4200-465 Porto • Portugal			

2. Academic background

<i>Degree</i>	<i>Field of knowledge</i> Civil Engineering	<i>Start / End date</i> 1980/ 1985	
Graduation	<i>Institution</i> University of Porto (FEUP)	<i>city</i> Porto	<i>Country</i> Portugal
<i>Degree</i>	<i>Field of knowledge</i> Structures in Civil Engineering	<i>Start / End date</i> 1986/ 1988	
Master	<i>Institution</i> Faculty of Engineering (FEUP)	<i>city</i> Porto	<i>Country</i> Portugal
<i>Degree</i>	<i>Field of knowledge</i> Civil Engineering - Geotechnics	<i>Start / End date</i> 1991/ 1996	
Doctorate	<i>Institution</i> University of Porto (FEUP)	<i>city</i> Porto	<i>Country</i> Portugal
<i>Degree</i>	<i>Field of knowledge</i> Civil Engineering - Geotechnics	<i>Start / End date</i> 2007/ 2008	
Habilitation (Agregação)	<i>Institution</i> University of Porto (FEUP)	<i>city</i> Porto	<i>Country</i> Portugal

3. Research interests

Experimental characterization and modeling of geomechanical behaviour of non-textbook soils (namely residual soils). Management of soil structure and sensitivity (sampling quality).
Flow (monotonic or cyclic) liquefaction in soils in natural slopes and tailing dams using critical state soil mechanics approaches and seismic waves' velocities risk charts. Cyclic liquefaction triggering due to earthquake actions, using site-specific correlations between penetration resistance and small strain shear modulus from shear wave velocity in situ and in lab.
Behaviour of shallow and deep foundations and earth retaining structures (multi-strutted and anchored walls and large diameter elliptical shafts) in weathered rocks and residual soils, considering non saturated conditions induced by the cyclic water table variations.
Static, cyclic and dynamic properties characterization and modelling of stabilized soils for foundations reinforcement and subgrading of tracks for transportation infrastructures.

4. Current position

Managerial and/or administrative activity	Director of the Geotechnical Division of Civil Engineering Department of FEUP Geotechnical Laboratory Director of the DEC FEUP (www.fe.up.pt/labgeo/)
Research and Development	Chair of ISSMGE TC-102 of "Ground Property Characterization by In-Situ Tests"; Member of national committees and international professional societies (GSP, ABMS, ISSMGE –committees (ex. Polish Academy of Science) and standards committees (CEN-CT156-IPQ).
Technical service/specialization Others	President of the College of Geotechnical Specialists of Portuguese Association of Engineers Director of the Geotechnical Division of the Institute of Construction of FEUP, interface branch with society institutions and industry, responsible for consultancy activities and joint projects.

5. Work experience

5.1. Institution	Position	Activities	Local	Start-End date
Road Contractor (Quelhas,SA)	Junior Civil Engineer	Assistant of direction of plants	Maia	1985-1986
LNEC, Nat .Lab. Civ. Eng.	Research Assistant	Geotechnics for Infrastructures	Lisbon	1987-1988
FEUP, Fac.Eng.Univ.Porto	Assistant Lecturer	Teaching and research (T&R)	Porto	1989-1991
FEUP, Fac.Eng.Univ.Porto	Lecturer and PhD researcher	Teaching and research (T&R) in FEUP, Imperial College London, PUC-RJ	Porto, London, Rio de Janeiro	1991-1996
FEUP, Fac.Eng.Univ.Porto	Auxiliary Professor Director Geotech Lab	T&R in FEUP, member of boards of technical Committees	Porto, other Inst. and universities	1996-2003
FEUP, Fac.Eng.Univ.Porto	Associate Professor Director Geotech Lab	T&R in FEUP, President College Civil Engineers Portuguese Association of Engineers (OE-P) – Northern Region.	Porto, other inst. and universities	2003-2008
FEUP, Fac.Eng.Univ.Porto	Associate Professor Habilitat. Director Geotech Lab Head of Geotech Div	T&R in FEUP; President of College Geotechnical Specialists OE-P (national) ; Chair of ISSMGE-TC102	Porto, other univ institutions and Int. Associations	2008-present
Geotech Design Companies	Consultant	Coordinator/ Designer Geotechnical and Structural Project	Porto, Lisbon, Africa, Brasil...	1996-present

6. Scientific, technological and artistic production

1. scientific articles in national scientific journals	31	6. papers in congresses, seminars, conferences, etc.	175
2. scientific articles in international scientific journals	36	7. participation in expositions, presentations, etc.	62
3. articles for scientific divulgement	103	8. videos, audiovisual and media production	4
4. defended theses	64	9. patents	-
5. advised theses	82	10. books + chapters of books	7+8

7. Main publications :

Selected recent publications (ScopusAuthor ID: 7005635575; H-Index: 8; <http://orcid.org/0000-0002-9896-1410>)

Viana da Fonseca, A., Ferreira, C. e Fahey, M. (2009). "A framework interpreting bender element tests, combining time-domain and frequency domain methods". ASTM Geotechnical Testing Journal. Vol. 32, No. 2, pp.91-107.

Consoli, N. C., Viana da Fonseca, A., Caberlon Cruz, R., Rios Silva, S. (2011). "Parameters controlling tensile strength of cement treated soils", J. of Geotechnical and Geoenvironmental Engineering (ASCE), Vol. 137. Nº 11, 1126-1131.

Consoli, N. C. Caberlon Cruz, R., Viana da Fonseca, A. & Coop, M. R. (2012). "Influence of voids-cement ration on stress-dilatancy-strength behavior of artificially cemented sand", J. of Geotechnical and Geoenvironmental Engineering (ASCE), Vol. 138, Nº 1, pp.100-109 (DOI: 10.1061/(ASCE)GT.1943-5606.0000565).

Bedin, J., Schnaid, F., Viana da Fonseca, A. & Costa-Filho, L. (2012). "Gold tailings liquefaction using critical state soil mechanics concepts", Géotechnique (ICE). Vol. 62, No. 3, pp. 263–267 (DOI: 10.1061/(ASCE)GT.1943-5606.0000565).

Consoli, N. C., Viana da Fonseca, A., Rios Silva, S., Cruz, R. C. & Fonini, A. (2012) "Parameters controlling stiffness and strength of artificially cemented soils", GÉOTECHNIQUE (ICE). Vol. 62, Nº 2, pp.177–183 (DOI:10.1680/geot.8.P.084).

Ferreira, C., Viana da Fonseca, A. & Nash, D. (2011). "Shear wave velocities for sample quality assessment on a residual soil". Soils and Foundations, Int. Journal. Vol.51, No.4., pp 683-692.

Viana da Fonseca, A., Coop, M.T., Fahey, M. & Consoli, N. (2011). "The interpretation of conventional and non-conventional laboratory tests for challenging geotechnical problems". 'Deformation Characts of Geomaterials', Vol. 1, pp. 84-119. IOS Press.

Rios, S. Viana da Fonseca, A. & Baudet, B. A. (2012). "The effect of the porosity/cement ratio on the compression of cemented soil", Journal of Geotechnical and Geoenvironmental Engineering (ASCE), Vol. 138, Nº 11, pp. 1422–1426.

Schnaid, F., Bedin, J., da Fonseca, A., and Filho, L. (2013). "Stiffness and Strength Governing the Static Liquefaction of Tailings." J. Geotech. Geoenviron. Eng., Doi: 10.1061/(ASCE)GT.1943-5606.0000924.

Arroyo, M., Amaral, M. F., Romero, E., Viana da Fonseca, A. (2013). "Isotropic yielding of unsaturated cemented silty sand". Canadian Geotechnical Journal. Vol. 50, No. 8 : pp. 807-819; Doi: 10.1139/cgj-2012-0216.

Viana da Fonseca, A., Amaral, M.F., Panico, F., Rios, S. (2014). Indexation of dynamic and static geomechanical properties of a cemented aggregate for transportation engineering. J.Transportation Geotechnics, 1, 31–44; DOI 10.1016/j.trgeo.2014.02.001.

(More in: <http://www.degois.pt/visualizador/curriculum.jsp?key=8302624770946453#Producaoocientifica>)

8. Languages

Indicate your language proficiency: P – poor G - good E - excellent							
Language	speaking	reading	writing	Language	speaking	reading	writing
Portuguese	E	E	E	English	E	E	E
French	E	E	G	Spanish	E	E	G