



Academic Personnel Short Profile / Short CV

University:	University of Nicosia
Surname:	Sarris
Name:	Ernestos
Rank/Position:	Associate Professor
Faculty:	Sciences & Engineering
Department:	Engineering
Scientific Domain: *	Petroleum Geomechanics (Hydraulic Fracturing, Poromechanics, Erosion, Wellbore Strengthening, EOR)

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
Ph.D.	2011	University of Cyprus	Civil Engineering	Modelling of fluid driven fractures in cohesive poroelastoplastic formations
M.Sc.	2005	Technical University of Crete	Mineral Resources Engineering	Numerical and theoretical investigation of the stress and strain fields in Brazilian discs with cracks and notches
B.Sc.	2004	Technical University of Crete	Mineral Resources Engineering	Blasting waves modelling in mining operations with finite elements



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

Period of employment		Employer	Location	Position
From	To			
10/2015	Today	University of Nicosia	Cyprus-Nicosia	Assistant/Associate Professor
10/2013	09/2015			Adjunct Lecturer
10/2011	3/2015	University of Cyprus	Cyprus-Nicosia	Principle Researcher
05/2011	10/2011	Cyprus University of Technology	Cyprus-Limassol	Principle Researcher

Key refereed 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	2019	Flow Regime Analysis of the Pressure Build-Up during CO ₂ Injection in Saturated Porous Rock Formations	Gravanis E.	Energies (open access)	12(15)	2972-2992
2	2019	A novel methodology for synthesizing the wetting capillary pressure curve of rocks through sorptivity data	Gravanis E. and Ioannou I.	Journal of Petroleum Science and Engineering	180	413-423
3	2017	Cohesive Zone Models	Papanastasiou P.	Book chapter	9780081007815	119-144
4	2016	Constraining the In-Situ Stresses in a Tectonically Active Offshore Basin in Eastern Mediterranean	Papanastasiou P., Kyriakou, A.	Journal of Petroleum Science and Engineering	149 (20)	208-217
5	2015	On the Conical Indentation Response of Elastic Auxetic Materials: Effects of Poisson's Ratio, Contact Friction and Cone Angle	Photiou D., Prastiti N., and Constantinides G.	International Journal of Solids and Structures	81 (1)	33-42
6	2015	Hydro-Mechanical Erosion Models for Sand Prediction	Gravanis E., and Papanastasiou P.	International Journal for Numerical and Analytical Methods in Geomechanics	39(18)	2017-2036



7	2015	On Certain Integral Equations Arising in the Analysis of Wellbore Recharge in Anisotropic Formations	Atkinson C., Gravanis E., and Papanastasiou P.	Applied Mathematical Modelling	40(1)	343-362
8	2014	The Influence of Pumping Parameters in Fluid-driven Fractures in Weak Porous Formations	Papanastasiou P.	International Journal for Numerical and Analytical Methods in Geomechanics	39(6)	635-654
9	2014	Computational Investigation of the Flow Regimes and Interface Evolution in the Carbon Dioxide Sequestration Problem in saline Aquifers	Gravanis E., Papanastasiou P.	Transport in Porous Media	103(3)	341-359
10	2012	Numerical modeling of fluid-driven fractures in cohesive poroelastoplastic continuum	Papanastasiou P.	International Journal for Numerical and Analytical Methods In Geomechanics	37(12)	1822-1846



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	2019	Intelligent Roll-to-Roll Processing of Advanced Carbon Fabrics based on Machine Learning and Non-Linear Automatic Control	RPF	Researcher
2	2018	Nano-Controlled Porosity for Multifunctional Fibre Reinforced Polymer Composites	RPF	Researcher
3	2012	The Risk of Formation Fracturing in CO ₂ Geological Storage	RPF	Researcher
4	2006	Numerical Simulation of the Hydraulic Fracturing Technique for Applications in Soils Remediation	RPF	Assistant Researcher

*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
1	2019	Cyprus Aggregates Producers Association	Consultant-Researcher	Data Analysis-Evaluation of Results for fugitive dust monitoring (Stage 2)-Current
2	2017	Cyprus Aggregates Producers Association	Consultant-Researcher	Data Analysis-Evaluation of Results for fugitive dust monitoring (Stage 1)-Completed