Academic Personnel Short Profile / Short CV

University:	University of Nicosia
Surname:	Nicolaou
Name:	Nicoletta
Rank/Position:	Associate Professor
Faculty:	Medical School
Department:	Basic and Clinical Sciences
Scientific Domain: *	Biomedical Signal Processing / Machine Learning / Neuroscience

** Field of Specialization*

Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD in Cybernetics	2006	University of Reading	Cybernetics	Automatic artefact removal from Electroencephalograms
MSc in Criminology	2025	University of Nicosia	School of Humanities and Social Sciences	Neurocriminology
BSc (Hons.) in Cybernetics & Control Engineering	2001	University of Reading	Cybernetics	Automatic Speech Recognition using Stochastic Diffusion Search

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

Period of employment		Employer	Location	Position
From	To			
02/2018	Present	University of Nicosia Medical School	Nicosia, Cyprus	Associate Professor (2018-20: Assistant Professor)
09/2016	12/2017	University of Reading (Dept. of Biomedical Engineering)	Reading, UK	Postdoctoral Fellow

08/2014	08/2016	Imperial College London (Dept. of Electrical and Electronic Engineering)	London, UK	Marie-Skłodowska Curie Fellow

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	2024	Development of a leadership and management module for the undergraduate medical curriculum	**N. Nicolaou**, C. Nicolaou, P. Nicolaou, P. Nicolaides, A. Papageorgiou	BMC Medical Education	24(1)	1310
2	2024	Changes in autonomic nervous system function following administration of probiotics in mild Alzheimer's Disease	S. Angeli, I. Kousiappa, S. Georgiades, S. Papacostas, A. Koupparis, Y. Christou, A. Adamou, B. Botchway, G. Loucaides, G. Alexandrou, S. Bashiardes, A. Hadjisavvas, M. Panagiotidis, A. Jovanovic, **N. Nicolaou**	(poster) FENS Forum, 25-29 June, Vienna, Austria.	-	PS03-27AM-611
3	2023	Impact of the COVID-19 pandemic on total, sex and age-specific all-cause mortality in 20 countries worldwide during 2020: results from the C-MOR project	Achilleos S, Quattrocchi A, Gabel J, Critselis E, Constantinou C, **Nicolaou N**, Ambrosio G, Bennett CM, Le Meur N, Critchley JA, Mortensen LH, Rodriguez-Llanes JM, Chong M, Denissov G, Klepac P, Goldsmith LP, Costa AJL, Hagen TP, Chan Sun M, Huang Q, Pidmurniak N, Zucker I,	International Journal of Epidemiology	52(3)	664–676

			Cuthbertson J, Burström B, Barron M, Eržen I, Stracci F, Calmon W, Martial C, Verstiuk O, Kaufman Z, Tao W, Kereselidze M, Chikhladze N, Polemitis A, Charalambous A.			
4	2022	Premature mortality attributable to COVID-19: potential years of life lost in 17 countries around the world, January–August 2020	MP Ugarte, S Achilleos, A Quattrocchi, J Gabel, O Kolokotroni, C Constantinou, **N Nicolaou**, *et al*.	BMC Public Health	22	54
5	2022	(Chapter 5) Electrophysiology and consciousness: a review	I. Stavraki, **N. Nicolaou**, M. Vizcaychipi	(Book Chapter) in Applications of Machine Learning in Digital Healthcare, M. Hernandez Silveira, S-S. Ang (eds.), Healthcare Technology series 36, The Institution of Engineering and Technology		163-195
6	2022	Extendable Hybrid Approach to Detect Conscious States in a CLIS Patient Using Machine Learning	S. Adama, S-J. Wu, **N. Nicolaou**, M. Bogdan,	Simulation Notes Europe	32 (1)	37-45
7	2022	Brain and brain-heart Granger causality during wakefulness and sleep	H Abdalbari, M Durrani, S Pancholi, N Patel, S Nasuto, **N Nicolaou**	Frontiers in Neuroscience	16	927111
8	2022	Concept maps as a novel assessment tool in medical education	S Loizou, **N Nicolaou**, BA Pincus, A Papageorgiou, P McCrorie	MedEdPublish	12(21)	21
9	2020	Consciousness Detection in a Complete Locked-in Syndrome Patient through Multiscale Approach Analysis	S.-J. Wu, **N. Nicolaou**, M. Bogdan	Entropy	22 (12)	1411

10	2020	Neurophysiological and Genetic Findings in Patients With Juvenile Myoclonic Epilepsy	S. Stefani, I. Kousiappa, **N. Nicolaou**, E.S. Papathanasiou, A. Oulas, P. Fanis, V. Neocleous, L.A. Phylactou, G.M. Spyrou, S.P. Papacostas	Front. Integr. Neurosci.	14	45

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
1	2019	Researcher's Night	Local	Cyprus	Activity leader
2	2018	Researcher's Night	Local	Cyprus	Activity leader
3	2005-onwards	Conference presentations and participation	International and local	Various	Presenter (oral presentations, posters) and participant

**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	2022-2026	Effect of probiotics on cognitive functioning of patients with early AD (Grant #: AARG-NTF-22-928616)	Alzheimer's Association	Principal Investigator
2	2022-2023	The Effects of Electrical Power Stations on Air Quality, the Marine Environment, and Human Health in Cyprus (AETHER)	The University of Nicosia Medical School Research Seed Fund	Research team member
3	2021-2022	Simulation in medical education: development of a stethoscope for realistic auscultation during clinical competence examinations (SimuSCOPE)	The University of Nicosia Medical School Research Seed Fund	Principal Investigator

4	2021-2023	Leadership and management in the undergraduate medical curriculum (LEADER)	The University of Nicosia Medical School Research Seed Fund	Research team member
5	2019-2021	IoT based Continuous Environmental Monitoring for Health Analytics (Snow-IoT) (ENTERPRISES/0618/0057)	Cyprus Research Promotion Foundation (ENTERPRISES)	Research team member
6	2019-2020	Real-time music modification based on biosignals (RUMBA)	The University of Nicosia Medical School Research Seed Fund	Principal Investigator
7	2019-2020	Concept maps as a novel assessment tool in medical education (CANVAS)	The University of Nicosia Medical School Research Seed Fund	Research team member
8	2014-2016	Monitoring awareness during anaesthesia: a multi-modal approach (AnaeWARE) (REA grant agreement no.623767)	Marie-Skłodowska Curie Actions Individual Fellowship (European Research Agency)	Marie-Skłodowska Curie Research Fellow
9	2009-2012	Monitoring of awareness during anaesthesia (DIDAKTOR/DISEK/0308/20)	Cyprus Research Promotion Foundation (DIDAKTOR)	DIDAKTOR Research Fellow
10	2019-2023	The neural architecture of consciousness (COST Action CA18106)	European Cooperation in Science and Technology (COST)	Management Committee member

**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	2023-present	Frontiers in Human Neuroscience	Review Editor (Brain Imaging and Stimulation section)	Key persons of the Frontiers review process
2	2015-present	Various	Grant reviewer	Reviewing grant applications (Organizations: MRC UK, NIHR UK, EPSRC UK, Canadian Institute for Health Research Canada, Alzheimer's Association USA; The Special Research Fund Account of the Technical University of Crete, Greece)
3	2015-2019	IET Electronics Letters	Associate Editor	Article pre-screening, reviewer assignments, article decisions
4	2017-present	Various journals	Guest Academic / Associate Editor	Article reviewing, reviewer assignment, article decision
5	2017-present	Various conferences	Review Committee Member	Article reviewing, reviewer assignment, article decision (e.g. IEEE BioCAS, IEEE ISCAS, IJCNN)

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	2018	Student Essay Prize for paper "Development of a non-invasive, real-time novel autonomic monitoring tool using continuous Poincaré quantification of heart rate dynamics" (with M. Ardissino, M.P. Vizcaychipi)	The Royal Society of Medicine UK (Anaesthesia Section)
2	2016-2018	Honorary Research Fellow	Imperial College London, UK
3	2018-2019	Visiting Research Fellow	University of Reading, UK
4	2008	Best Paper for "Autoregressive features for a thought-to-speech converter" (with J. Georgiou, M. Polycarpou)	BIODEVICES Conference (Madeira)
5	2005	Winner of 1st annual data analysis competition on "Evaluation and development of intelligent	IEEE Workshop MLSP (Mystic, USA)

		artefact rejection in multidimensional signal processing" (with S.J. Nasuto)	
6	2005	Best Presentation	IEEE EMBS UK & RI Conf. PGBiomed (Reading)
7	2002-onwards	Various travel grants for attendance at international conferences and courses	Examples: IEEE (Student/Young Investigator Fellowship for Beijing Satellite Symposium of 27th IEEE EMBC 2005); European Neural Network Society (for ICANN/ICONIP 2003); Marine Biological Laboratory (for 'Neuroinformatics' summer school)
8	2002-2005	Scholarship for PhD Fees	Overseas Research Council, UK

Other Achievements. List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	**Date**	**Title**	**Key Activities:**
1	12/2024 – present	Members of the Cyprus Review Bioethics Committee for Biomedical Research and Clinical Trials on Medicinal Products of Human Use	Ethical review of clinical research studies conducted in Cyprus
2	2019-2021	Member of the Parallel House of Representatives Committee on Public Health	Consulting, reporting, making recommendations
3	2019	Invited talk on "The role of cannabinoids in anaesthesia and surgery"	Symposium on Cannabinoids in Research and Patient Care - Evexo Pharmaceuticals Ltd, Nicosia, Cyprus
4	2018	Invited talk on "Technology in medicine: advancements in anaesthetic monitoring"	Talk (4th Industrial Revolution Conference, House of Representatives, Nicosia, Cyprus)
5	2018	Invited talk on "Towards Closed-loop anaesthetic delivery: progress and challenges"	Talk (C3NL Brain Meeting Seminar Series, Hammersmith Hospital, Imperial College London, UK)
6	2017	Conference Special Session on "Brain-Computer-Interfaces and Brain State Detection for Medical Applications"	Programme Committee member, Neurotechnix 2016, 7-8 Nov., Porto, Portugal
7	2015	Conference Special Session on "Emerging non-invasive brain monitoring"	Session Chair & Programme Committee member, IEEE BioCAS 2015, 22-24 Oct., Atlanta, USA
8	2015	Invited presentation on "Awareness monitoring during anaesthesia: the EEG and analysis tools"	Presentation (Charing Cross Hospital, UK)
9	2007-present	Regular reviewer for scientific journals	Article reviewing (example journals: IEEE Trans. on Biomedical Engineering, IEEE Trans. on Biomedical

			Circuits and Systems, IEEE Trans. on Signal Processing, PLoS ONE, Clinical EEG and Neuroscience, IET Electronics Letters, Pattern Recognition, Computer Methods and Programs in Biomedicine, Biomedical Signal Processing & Control., J. of Neurocomputing, Entropy)
10	2005	Secretary of Engineering in Medicine and Biology Student Society UK & Ireland	Secretarial roles