

Faculty in the Cyprus Institute's Graduate Program

Title	Name	Position	Specialization	Current research interests (titles not text)	Experience in PhD supervision (titles not text)	Experience in teaching (titles not text)
Prof. Dr.	Papanicolas Costas	CEO of CREF and President of the Cyprus Institute	PhD Nuclear Physics "Inelastic Electron Scattering and Nuclear Structure in ^{208}Pb and ^{207}Pb ", Massachusetts Institute of Technology (MIT)	<ul style="list-style-type: none"> • Nuclear & Particle Physics • Accelerator Physics • Medical Physics and Imaging • Solar Energy 	Ammons, Edsel Albert (currently Prof. at Univ. of N. Dakota USA) Mueller, Paul Edward (currently Research staff at Oak Ridge, USA) Mandeville, Joseph B. (currently Instructor at Harvard U., USA) Serdarevic Amra (currently financial Industry, USA) Miller, Bruce L. (currently employed in the computer Industry, NY USA) Dolfini Steven (currently Raytheon Corporation, USA) Robert Deininger (current w. Hewlett Packard in Boston MA, USA) Costas Vellidis (currently Researcher at FNAL, Spokesman of CDF, USA) Nikos Sparveris (currently Asst. Prof. at Temple Univ. USA)	Professorial appointments with the University of Athens (Greece) and the University of Illinois (adjunct).
Prof. Dr.	Christophides, George	Adjunct Professor, Associate Dean of	PhD Infectious Diseases, Vector-Borne Diseases,	Elimination of malaria, Systems biology of insect	7 primary supervisor completed (EMBL, Imperial), 3	Immunology, Infection, Integrative Systems Biology,

		Studies	Systems Biology, Genomics, Molecular Biology	immunity, Functional and computational genomics of vector/pathogens interactions, Climate change impacts on public health	secondary supervisor completed (Imperial), 1 primary supervisor awaiting viva (Imperial), 2 primary supervisor in progress (Imperial), 11 advisor completed (Imperial, AUB), 4 advisor in progress (Imperial, AUB), 8 examiner completed (Imperial, LSHTM, LSTM, U. Montpellier)	Computational Biology, Molecular Biology, Molecular Parasitology, Vector-borne Diseases, Malaria, Biotechnology
Prof. Dr.	Constantia Alexandrou	Institute Professor, CoS Program Coordinator	PhD. Theoretical Particle and Nuclear Physics, Computational methods in Physics,	Large scale simulations, Lattice Quantum Chromodynamics	1 primary supervisor completed (Univ. of Cyprus), 1 primary supervisor in progress (Univ. of Cyprus) 4 advisor completed (Univ. of Cyprus, Univ. of Wuppertal), 2 advisor in progress (Univ. of Cyprus, Cyprus Inst.) 5 examiner completed (Univ. of Cyprus, Univ. of Adelaide, Helsinki Univ., Groningen Univ.), 1 examiner in progress (Univ. of Berlin and DESY-Zeuthen)	Undergraduate courses: Mathematical methods for Physicists, Computational methods for Physics, General Physics II, Computational Physics, Statistical Mechanics and Thermodynamics, Theoretical Physics, Supervision of undergraduate and Master theses Graduate courses: Quantum Mechanics II, lattice QCD, Quantum Field Theory I & II, Frontiers in Numerical methods
Prof. Dr.	Th. Hadzilacos	Adjunct Professor	PhD. Information Systems	Technology-enhanced Learning and large-scale information and database systems, in particular system design for non-standard application areas such as education, GIS, and multimedia.	5 primary supervisor completed (Univ. of Patras, Open Univ. of Greece), 5 primary supervisor in progress (Open Univ. of Cyprus) 3 advisor completed (open Univ. of Greece), 1 examiner completed (Univ.	He has taught at the Universities of Patras and Thessaly before joining the Hellenic Open University in 2000. During 1996-2001 he designed and managed the Greek national project "Odysseia" (http://odysseia.cti.gr/) for the utilization of

					of Thessaloniki)	Information and Communication Technologies in secondary education. He has served as a member of the Council of Europe working group for Teaching and Learning in the Communication Society (2002-2004) and the Greek national representative to E.U. DG Education and Culture for building the European portal on educational opportunities (2002-2005).
Prof. Dr.	Klaus Schilling	Professor,	PhD Theoretical and computational High Energy Physics	Large scale simulations of relativistic field theories, algorithms for vector and parallel computers	17 primary supervisor completed (Univ. of Wuppertal, Univ. of Bielefeld) 50 examiner completed (Univ. of Wuppertal/Julich Supercomputing Center, a number of Univ. in Germany and abroad)	Since 1974 to 2001 Full Professor at the University of Wuppertal, Germany and from 2002 Prof. Emeritus at the University.
Dr.	Giannis Koutsou	Associate Professor, CoS Deputy Program Coordinator	PhD Computational strong interaction physics	Computational strong interaction physics, algorithms and programming techniques for multiprocessor and massively multithreaded architectures, development for novel computer architectures, QCD application software and optimization, hadronic structure and improved fermion operators	1 advisor in progress (Cyprus Institute)	PhD level course: CoS501 Frontiers in HPC and CoS510 Computational Physics. Short introductory and advanced courses on parallel programming (MPI, OpenMP, Hybrid MPI/OMP), and optimization (performance analysis, SIMD vectorization). Domain-specific introductory course on lattice QCD and tutorials on optimizing and analyzing lattice QCD codes.

Dr.	George Artopoulos	Lecturer	PhD Computational architectures, digital simulation and mass-customization, 2d and 3d representation techniques	The development of computational methods and techniques for the survey, analysis and presentation of spatial configuration, environmental conditions, climate, usage and identity of spaces in urban and historical environments; the use of moving images for exploration and speculation in architecture and web-based virtual environments for interaction, collaboration and discussion	Examiner in Critical Architectural Studies in Heriot-Watt University, Edinburgh (2011-12).	9 year teaching experience on computer-aided techniques of designing expressive space - 6 years for the requirements of the BA course in Architecture at the University of Cambridge and on postgraduate workshops on Architecture and Cinematics as well as 3D experimentation with 'the body in space' for the requirements of the MPhil course in 'Architecture and the Moving Image,' Department of Architecture, University of Cambridge. University of Manchester; Architectural Association; Goldsmiths, University of London; University of Porto; School of Media Arts, Catholic University of Porto, Portugal; Aristotle University of Thessaloniki, Greece, Ecole Nationale Supérieure d' Architecture Paris-Malaquais, and the University of East London), etc.
Dr.	Sorin Hermon	Assistant Professor	PhD Digital Heritage, Prehistory and Proto-History	Cultural Heritage knowledge representation, 3D scientific visualization in Cultural Heritage	Co-supervisor at Cyl, evaluator of PhD programs at the University of Barcelona, University of Malaga (Post.doc)	15 years of experience, teaching courses at undergraduate and graduate schools at Ben-Gurion University, Israel, Lund University, Sweden, West University, Romania

Dr.	Nikolas Bakirtzis	Assistant Professor	PhD Art and Architectural History, Byzantine Archaeology, Urban Archaeology, Heritage Studies and Preservation	Interdisciplinary approaches to Art and Architectural History, Historic Cities and Heritage Preservation in the Eastern Mediterranean, Approaches to Divided Cities and Contested Space, Cultural Landscapes in the Eastern Mediterranean.	:Supervisor of 3 PhD students at Cyl, Director of workshop program involving Princeton University PhD Candidates: The Menoikeion Seminar/ Center in Hellenic Studies/ Princeton University, MA in Heritage Preservation Program Thesis Advisor/ University of Minnesota.	Full time: 2 years lecturer at the Dept. of Art History and Archaeology, Columbia University, 1 year Visiting Assistant Professor, School of Architecture, University of Minnesota, 2 years Assistant Professor, STARC, The Cyprus Institute.
Dr.	Kirsi O. Lorentz	Assistant Professor	PhD Bioarchaeology, physical anthropology	Bioarchaeology of the Eastern Mediterranean and the Near East; population specific skeletal growth & dental development; cultural modification of the body; mortuary archaeology, secondary manipulations; theoretical approaches to bioarchaeology; scientific analyses of ancient human remains	lead/main supervisor of 2 PhD students; co-supervisor/advisor of 3 PhD students	PhD, Masters, and undergraduate level teaching as full time tenured faculty at a UK university (Newcastle, 2004-2008) prior to taking up position at Cyl; teaching and lecturing at academic level since 1998
Dr.	El Maayar, Mustapha	Research Scientist	PhD Ecosystem Modeling	Ecosystem Modeling, Food Security, Climate Change	Several supervisions under the authority of the previous Lab directors (in Canada)	Canada and Niger: various courses in climate system, ecosystem modeling, hydrology, crop modeling, remote sensing and GIS, and field biophysical measurements. Cyl: Terrestrial Ecosystems
Dr.	Hadjinicolaou, Panos	Associate Research Scientist	PhD Atmospheric and climate modeling	Global and regional climate change; air pollution, stratospheric ozone	1 co-supervision in EAS (G. Zittis)	Contributing in 3 courses within EAS

Dr.	Jimenez, Carlos	Associate Research Scientist	PhD Marine Ecology and Biology	Ecology of shallow and deep-water marine communities	2 as primary advisor in Cuba; 1 as co-advisor in Costa Rica and 1 in Germany.	Costa Rica: 2 courses/seminars in ecology of coral reefs; 3 marine ecology (contributing)
Prof. Dr.	Lange, Manfred	Director, Professor, Act. VPR	PhD Geophysics, climate change impacts, water sciences	Climate change impacts; unmanned aerial systems research, water management in semi-arid environments	21 as primary and secondary advisor in Germany; 2 external reviews; 4 in E&AS program	Germany: various courses in introductory Geophysics; three courses in applied Geophysics, 3 courses in Glaciology, in E&AS program 3 (lead) 4 (contributing)
Prof. Dr.	Lelieveld, Jos	Institute Professor	PhD Atmospheric physics, chemistry and climate	Climate change, air quality, regional impacts	Supervisor of 38 PhD dissertations (primary and secondary advisor)	Lecture courses: Introduction air quality; Atmospheric chemistry; Climate processes and global change; Planetary atmospheres
Prof. Dr.	Levin, Zev	Professor (part time) Also Chair Professor of Atmospheric Physics (emeritus). at Tel Aviv University, Israel	PhD Atmospheric Sciences, Cloud and precipitation Physics, Atmospheric electricity	Atmospheric measurements using manned and unmanned airborne platforms. Cloud physics, dust storms and their impact on clouds and climate	15 PhD students as the only supervisor, 6 PhD students as co-advisor.	Over 37 years teaching experience of courses such as: Introduction to Atmospheric Science; Cloud physics (1 undergraduate and 2 graduate courses); Atmospheric Electricity (1 graduate course); Aerosol Physics (one graduate course); Basic course in environmental studies (1 undergraduate course)
Dr.	Metzger, Swen	Adjunct Associate Professor	PhD Atmospheric chemistry and physics and climate change modeling, aerosol chemistry and physics, thermodynamics renewable energy, fuel-cells	Climate change drivers; aerosol chemistry and physics modeling, cloud-aerosol-radiation interactions, air-pollution effects on visibility, radiative forcing and associated climate feedbacks	4 as primary and secondary advisor in Germany (MPI, FhG, Cyl); 1 in E&AS program	Germany: Introductory Courses in Climate Dynamics/ Climate Change, University Oldenburg, 1 in E&AS program (contributing)

Dr.	Vrekoussis, Mihalis	Research Scientist	PhD Atmospheric Chemistry and Physics, Analytical Chemistry	Pollution, trace gases, aerosols, satellite retrievals and interpretation, remote sensing (ground and space-based), climate change.	1 co-supervision	Courses in Environmental Chemistry, Analytical Chemistry (theory and laboratories), contribution to one E&AS course.
Dr.	Vlachou, Dina	Adjunct Assistant Professor	PhD Molecular biologist, Functional genomics, Host-pathogen interaction	Malaria genetics, parasite developmental transcriptomes, disease transmission, functional genomics of vector-parasite interactions	4 as primary supervisor completed (EMBL, Imperial), 1 as primary supervisor ongoing, 1 advisor completed (University of Montpellier)	Biology, Applied Biosciences and Biotechnology, Vector-borne diseases, Parasitology
Prof. Dr	Mihalopoulos, Nikolaos	Professor	PhD Environmental chemistry	Environmental Analytical Chemistry, atmospheric chemistry and physics, global biogeochemical cycles,	15 Phd students in Greece as primary advisor, more than 20 as secondary advisor and in more than 50 examination committees from which 10 abroad (Germany, France, Finland)	Greece: Analytical chemistry, atmospheric chemistry and physics, Trace metals in the environment. In E&AS program 1 (lead) 2 (contributing)
Dr.	Bonanos, Aristides	Assistant Professor	PhD Aerospace Engineering	Research on aspects of solar-thermal energy, including <ul style="list-style-type: none"> • Solar harvesting techniques and optics • Thermal energy receiver and storage analysis • Plant operation for co-generation of electricity and desalinated seawater 	Supervision of a PhD candidate and a Post-Doc at Cyl. Supervision undergraduate research fellow, California Institute of Technology, California, USA	Teaching classes within EEWRC
Prof. Dr.	Georgiadis, John G	Professor	Ph.D. in Mechanical Engineering, University of California, Los Angeles, USA PhD thesis title: "Nonlinear Convective Transport in Packed Beds". Sponsored by	Science and Technology Center of Advanced Materials for the Purification of Water with Systems (WaterCAMPWS)	Total # graduate students: 16 PhDs (4 pending) and 17 MS (1 pending);	Since 1987 involved in teaching. 1997 -date, Professor, Department of Mechanical Science & Engineering, UIUC,

			the US National Science Foundation.			USA
Prof. Dr.	Kalisperis, Loukas	Visiting Professor	Ph.D. in Architectural Design and Data Systems Interdisciplinary Doctoral Program	Area of integrating digital technology in design and digital representation and visualization techniques which can define a framework that would allow for a shift in the use of digital media to conceptualization and exploration. He is currently involved in research for immersive environments, multimodal representation, cultural heritage visualization and augmented representation.		<p>Since 1989</p> <p>1998- present - Visiting Professor - Graduate Program, Department of Architecture</p> <p>National Technical University of Athens, Greece, (occasional Visiting Professor)</p> <p>2001- present – Stuckeman Professor - Department of Architecture</p> <p>College of Arts & Architecture - The Pennsylvania State University</p>
Prof. Dr.	Barrie, Leonard	Professor	Ph.D. Atmospheric Chemistry and Meteorology, Johann Wolfgang von Goethe University, Institute of Meteorology and Geophysics, Frankfurt, Germany	Climate and Atmospheric Science	1988-2002 Adjunct Professor Atmospheric Physics and Chemistry, Centre for Atmospheric Chemistry, York University, Toronto ON (involved NSERC grants and student supervision)	1988-2002 Adjunct Professor Atmospheric Physics and Chemistry, Centre for Atmospheric Chemistry, York University, Toronto ON (involved NSERC grants and student supervision)
Dr.	Margatitis, Evi	Adjunct Assistant Professor	<p>PhD in Archaeobotany, Department of Archaeology, University of Cambridge</p> <p>PhD thesis title: 'The olive and the vine in Hellenistic Pieria. Archaeobotanical case studies from Macedonia,</p>	<p>1) History of the vine and the olive in the Mediterranean and beyond through DNA analysis;</p> <p>2) on the integration of rural and urban research: houses, space and function during Iron Age and Classical periods;</p> <p>and 3) agriculture, landscape</p>	2001-2004 Supervision of BA and MA students at Cambridge;	<p>Contribution to the American School of Classical Studies at Athens regular programme on ancient agriculture and economy;</p> <p>Part time Lecturer, School of Archaeology, History and</p>

			Greece'. sponsored by the Gates Cambridge	and economy of palatial centres in the Mycenaean World, through the study of the plant remains from Mycenae, Midea, and Tiryns. Currently, she is also developing an interdisciplinary project on ritual and funerary food deposits in Europe.		Cultural Heritage, University of Peloponnese; 2006-2012 Seminars at Field Schools at the Keros excavations, University of Cambridge; Mycenae excavations, Dickinson College, USA; Mt. Lykaion excavation and survey project, University of Pennsylvania; Samos excavations, German Archaeological Institute at Athens; 2009-2012 Seminars to undergraduate students at the British School at Athens.
Prof.	Niccolucci, Franco	Professor	Degree in Mathematics	Founder of research lab named VAST-Lab located at PIN, in Prato, Italy - participated in several EU-funded projects, scientific coordinator CHIRON and COINS, Executive Director EPOCH, an 8 million EU-funded FP6 project.		Professor at the University of Pisa. 1974- 2007 Professor, Faculty of Architecture, University of Florence.
Prof. Dr.	Santamouris, Matthaios	Professor	PhD. on Energy Physics, Physics Department, University of Patras, Greece	Coordinator of Major International Scientific Projects • PASCOOL Program. • OFFICE Program. • AIOLOS Program. • POLISTUDIES Program. • BUILT Program. • FOS Program. • URBANCOOL Program. • FENESTRATION Program. • EUROCLASS	Supervisor of 9 finished Ph.D's at the Physics Department of the University of Athens. Main Supervisor of three finalised Ph. D's at the Institut National des Sciences Appliquees, Lyon, France, Co-Supervisor of a Ph.D. at Oxford Brookes University,	1981-1986 : Physics Department, University of Patras, Greece. 1986-1990 : Alternative Energy Sources". Technical and Educational Institute of Pireas, Greece. 1989 : Energy Seminars of the Common EEC Research

				<p>Program. • SAVE 13 • RESET Program. • INTERSET Program. • Combined Use of Satellite and Ground Data for the study of the thermal environment of urban areas : methodologies and mitigation strategies. COOLROOFS</p>	<p>2007 Co – Supervisor of a Ph. D at Brunel University, UK, 2008 Co – Supervisor of a Ph. D at FEUP-Porto, MIT Portugal Program Co-Supervisor of two Ph.D students at the University of Ioannina. Co –Supervisor in the Master's Program, Uni. Colima, Mexico Supervisor of three Ph'D's at the Physics Department of the University of Athens Member of the Supervision Committee of many Ph'D in the University of Athens, University of Patras and University of Ioannina. External Examiner External Examiner of Ph.D's at the following Universities : Ecole National des Travaux Publique de l' Etat, Lyon, France, (Five Ph.D's , 1998-2005), Institute Nationale Sciences Appliquees, Lyon, France, (Four Ph.D's, 1996-2006), Brunel University, UK, 2001, University of La Rochelle, France, (2 Ph.D's, 2004, 2005) and one Rehabilitation Desertation, 2006, University of Karlsruhe,</p>	<p>Centre, Ispra, Italy. Since 1990-: New Energy Sources". Physics, Department, University of Athens. 1990- 1995 : " Atmospheric Energy Sources" Post graduate Courses. Physics Department, University of Athens. Since 1995 " Energy and Environment", and "Indoor Air Quality". Post Graduate Courses, Physics Department, University of Athens. Since 2003 " Building Physics". Post Graduate Courses, Physics Department, University of Athens 1998-2003 : Atmosphere Physics, Department of Mathematics, University of Athens, Greece 2003-2005 : Urban Environment in the MSc Courses of the NTUA-EMP. 2003. Three Lectures on Urban Microclimate and Energy Performance in the Courses organised by the Association of the European Research Energy Centers in Vienne. 2004. Three Lectures on Urban Microclimate and</p>
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					Germany, 2004, EPFL, Lausanne, Switzerland, 2006, Univ. of Gent, Belgium, 2006, National University of Singapore, 2006, 2007, National Technical University Athens (3 Ph.D's, 1999-2006), National Technical University Crete, 2001, University of Patras, (2 Ph. D's), 2003,2004	Renewable Sources in the Courses organised by the Association of the European Research Energy Centers in Athens. 2005 Lecture Invitation at the M. Sc. Courses of the Democritian University of Thrace, Greece 1993-1997 : Energy and Environmental Courses to the European Association for Environmental Management Education, Master's Degree, Athens.
Prof. Dr.	Stiliaris, Efsthios	Adjunct Associate Professor	PhD in Experimental Nuclear Physics, Hahn-Meitner Institut and Freie Universitaet Berlin, Berlin, Germany: "Refraction and the Rainbow Effect in the Heavy Ion Scattering" (in German)	Nuclear Medical Imaging: SPECT (Single Photon Emission Computed Tomography) - Development and optimization of detector imaging devices, small field γ -Camera systems with high resolution and efficiency Hadronic Physics: Study of the $N \rightarrow \Delta$ transition in the proton with high precision inclusive measurements. Nuclear Reactions: Study of Nuclear Structure with Radioactive Ion Beams. Development of new Pulse Shape Analysis Techniques.	Supervisor of • 4 PhD Dissertations • 5 MSc Theses • 32 Diploma Theses	Undergraduate Courses • Introduction to Nuclear and Particle Physics • Nuclear Physics I • Probability and Statistics • Introductory and Advanced Nuclear Physics Laboratory • Introductory Physics Laboratory Postgraduate Courses • Experimental Methods in Physics II
Prof. Dr.	Williams, Jonathan	Adjunct Professor	PhD in Environmental	Field measurement of volatile	12 PhD students, 11	Numerous invited research

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			Science, University of East Anglia "A study of the atmospheric chemistry of alkyl nitrates"	organic compounds (VOC) in the atmosphere	Postdoctoral students	presentations at international conferences. General lectures for the International Max Planck Research School International summer school invited lectures. Public lecture on geo-engineering, Kiel, Germany.
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