

Constantinos Zervides

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Professional Profile

A disciplined and dedicated professional with an expert knowledge of Radiation Protection and Medical Physics. Specialises in delivering improvements in performance and efficiency through the implementation of lean and value-adding processes whilst remaining focused on achieving service excellence. Able to work effectively on own initiative with the organisation and prioritisation required to achieve tight deadlines. Possesses excellent interpersonal, communication and negotiation skills, and the ability to develop positive relationships both internally and externally. Enjoys being part of, as well as managing and developing, a successful and productive team and thrives in highly pressurised and challenging working environments.

Objective

Now looking for a new and challenging position, one that will make best use of existing skills and experience and provide opportunity for further responsibility and professional development.

Career Summary

2016 - Date UNIVERSITY OF NICOSIA MEDICAL SCHOOL **Course Lead – Physics in Medicine**

- Leading the Physics in Medicine related courses of the Medical School
- Responsible for reviewing teaching material and delivering lectures to first year medical students
- Undertaking student assessments and performance evaluations

2012 - Date ZERVIDES RADIATION PROTECTION SERVICES **Medical Physicist - Radiation Protection Expert**

- Undertaking radiation protection assessment and quality assurance of medical equipment emitting ionizing radiation (Certified by the Cyprus National Authority)
- Analysing accidental or unintended radiation exposure and optimization of radiation protection of patients and staff
- Testing, calibrating and selecting equipment detecting ionizing radiation and performing radiation protection measurements
- Optimising and establishing appropriate dose constraints
- Planning for new installations and accepting into service new or modified radiation sources in relation to any engineering controls, design features, safety features and warning devices relevant to radiation protection
- Categorising of controlled and supervised areas
- Performing classification of workers depending on expected radiation dose they will receive
- Establishing workplace and individual monitoring programmes and related personal dosimetry
- Analysing and purchasing appropriate radiation monitoring instrumentation
- Establishing and performing training and retraining programmes for exposed workers
- Establishing the employment conditions for pregnant and breastfeeding female workers as needed by local legislation
- Preparing appropriate documentation such as prior risk assessments and written procedures

Feb 2014 - EUROPEAN UNIVERSITY OF CYPRUS

Jul 2014 Vice Chair of Department of Health Sciences

- Responsible for the co-management of the academic staff and the students of the Department of Health Sciences in collaboration with the Chair of the Department
- Represented the Department to the Academic Committee of the Senate
- Member on all management committees available for the Doctorate, Master and Bachelor's degrees offered by the Department

Career Summary cont.

EUROPEAN UNIVERSITY OF CYPRUS

2012 - 2014 Assistant Professor of Medical Physics / Program Coordinator of Radiology and Radiotherapy Program

- Coordinating the first established bachelor's degree in Radiology and Radiotherapy in Cyprus
- Managing academic staff and students of the degree
- Organising academic seminars that benefited the organisation, our students and our staff
- Representing the degree in different academic committees of the University including the Disciplinary Committee, the Academic Staff Evaluation Committee and the School Council
- Undertaking student assessments and performance evaluations
- Preparing and delivering highly effective lecture and tutorial presentations for an array of courses which include among others Radiation Physics, Radiation Protection and Medical Equipment Technology
- Supervising MSc and Bachelor level student projects
- Making a significant personal contribution to curriculum and teaching methodology development of the faculty of Science
- Developing courses within the faculty of Science, with considerable success enjoyed in examination results
- Playing a lead role in encouraging students to academically and socially develop
- Actively involved in the faculty research committee with contributions to the institution's research profile with numerous successful research grants / reports and publications

MINISTRY OF LABOUR AND SOCIAL INSURANCES, DEPARTMENT OF LABOUR

2011 - 2012 INSPECTION

Labour Inspection Officer

- Inspecting, investigating, measuring and creating technical reports in relation to the implementation of the Radiation Protection and Nuclear Safety legislation of the Republic of Cyprus
- Involved in the discussions concerning the Basic Safety Standards for protection against the dangers arising from exposure to ionising radiation and the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields) under the Cyprus Presidency of the Council of the European Union

INTERCOLLEGE LARNACA CAMPUS

2010 - 2011

Assistant Professor of Medical Physics / Computer Science Department Head

- Liaising with the Ministry of Education for the accreditation of the Bachelor's degree in Computer Science
- Managing the academic staff and students of the Computer Science department
- Representing the department in different committees of Intercollege Larnaca including the Disciplinary Committee and the Academic Staff Evaluation committee
- Preparing and delivering highly effective lecture and tutorial presentations for an array of courses for the BTEC Professional Diploma in Radiography which include among others Radiation Physics, Radiological Equipment, Radiation Technology, and Radiation Safety in Radiology and Radiation Therapy
- Developing courses within the faculty of Science, with considerable success enjoyed in examination results
- Undertaking student assessments and performance evaluations

UNIVERSITY COLLEGE LONDON, DEPARTMENT OF MECHANICAL ENGINEERING

2008 - 2009

Post-doctoral research associate

- Developing an aortic valve suitable for percutaneous implantation, which overcame all the limitations experienced in the first clinical trials with this endovascular approach (a patent has been published for this work)
- Acting as the Laboratory Manager for the Cardiovascular Engineering & Medical Devices group
- Managing and training personnel on the use of a pulse duplicator, a tensile test machine, an optical microscope and an industrial oven

Highest Achievements

- Representing the Republic of Cyprus (after nomination) as the national expert in the European Commission breakout session at the International Conference on Radiation Protection in Medicine, in Bonn, Germany, in December 2012
- Awarded the title of Charter Scientist (CSci) from the Science Council of the United Kingdom in July 2012
- Co-authored a new Quality Assurance protocol for Cone Beam Computed Tomography, endorsed by the International Atomic Energy Agency

Education

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| 2004-2008 | Ph.D. Medical Physics and Clinical Engineering with title: "Understanding venous valve operation in the normal state. Influence of gravitational loads". University of Sheffield. United Kingdom. |
| 2003-2004 | M.Sc. Distinction in Medical Physics and Clinical Engineering, IPEM Accredited, University of Sheffield, United Kingdom. |
| 2000-2003 | B.Eng. Class One Honours in Medical Systems Engineering, University of Sheffield. United Kingdom. |

Funding and Awards

- Cost Action TD I307, European Cooperation in Science and Technology, Cyprus Representative to the Management Committee of the Action, (€456000.000), 2014 - 2018
- European Venous Forum, EVF Pump Priming Grant, (€5.000), 2011 - 2013
- Intercollege Larnaca research starting grant (€ 5000), 2010 - 2011
- Royal Academy of Engineering International Travel Grant, United Kingdom, (IJB/AM/08-718: £400), 2008
- British Heart Foundation Ph.D. Studentship (FS/05/086/19462: £38432), 2005 - 2007
- University of Sheffield Fee Waver award (£7000), 2004 - 2007
- University of Cardiff Ph.D. allowance award (P99901: £3600), 2004 - 2005

Scientific Editorial Boards And Reviewing

Reviewer	Phlebology, Royal Academy of Medicine, United Kingdom (2014 - date)
Reviewer	The Scanner, Greece (2013 - 2014)
Editorial Board	Pliroforiki, Cyprus (2011 - 2012)
Editorial Board	SCOPE, United Kingdom (2008 - 2012)

Seminar Organisation And Coordination

- Mammography. It can save your life, 2013, participants: 250
- Career Prospects in Information Technology, 2011, participants: 110
- Digital Forensics. Not quite C.S.I., 2011, participants: 45
- Acoustical Engineering and Software Development, 2011, participants: 85

Invited Presentations

- The ICRP Proposed changes to the eye lens dose. How will this affect us? (2013), Annual Conference of the Cyprus Society of Registered Radiologic Technologists and Radiation Therapy Technologists
- National and International Radiation Protection Standards (2013), Science Day of the Cyprus Society of Registered Radiologic Technologists and Radiation Therapy Technologists
- Understanding venous valve operation in the normal state: influence of respiratory and gravitational loads (2007), Department of Medical Physics and Clinical Engineering, The University of Sheffield, United Kingdom
- Understanding venous valve operation in the normal state: influence of respiratory and gravitational loads (2006), THU Eindhoven, Department of Biomedical Engineering, The Netherlands
- A simple Computational Model-Based Validation of Guyton's closed circuit analysis of the heart and the peripheral circulatory system (2005), Department of Medical Physics and Clinical Engineering, the University of Sheffield, United Kingdom

Affiliations

- Allied Sciences Member of the European Society of Radiology
- Non-Consultant Member of the British Institute of Radiology (31729)
- Corporate member of the Institute of Physics and Engineering in Medicine in the United Kingdom (244)
- Member of the Society for Radiological Protection in the United Kingdom
- Fellow of the Institute of Health Engineering and Estate Management in the United Kingdom (103053)
 - Application Membership Reviewer for IHEEM.
- Member of the Medical Physics Association of Cyprus

Further Skills And Interests

IT Proficiency: Microsoft Office and Project, LaTeX, Open Office, Matlab, Simulink, Ansys, MSC Mark / Patran and Dytran, LS-Dyna, Oasys, Ensign, IDEAS, Rhino, C, C++, C#, Java

Languages: Greek and English

Interests: Football, Athletics, Rugby Union, Swimming, Theatre, Reading

Selected Publications (Journal Articles)

- Hugo de las Heras, et al. "Quality control in cone beam computed tomography (CBCT) EFOMP-ESTRO-IAEA protocol (summary report), *Physica Medica*, 2017
- C. Zervides, "Οι νέες συστάσεις της Διεθνούς Επιτροπής Ακτινοπροστασίας. Πώς επηρεάζονται τα βασικά πρότυπα ασφάλειας." *Ακτινοτεχνολογία*, 2014
- C. Zervides, "Επιπτώσεις από την εφαρμογή των συστάσεων της ICRP για την αναθεώρηση του ορίου δόσης στον φακό του ματιού". *The Scanner*, Issue 55, pp 8 – 10, 2013
- C. Zervides and A. Giannoukas, "Computational phlebology: Reviewing computer models of the venous system." *Phlebology*, vol. 28, pp. 209-218, 2013
- C. Zervides and A. Giannoukas, "A Historical Overview of Venous Valve Prostheses for the Treatment of Venous Insufficiency" *Journal of Endovascular Therapy*. vol.19, pp. 281-290, 2012
- G. Burriesci, et al., "Design of a novel polymeric heart valve," *J Med Eng Technol*, vol. 34, pp. 7-22, 2010
- C. Zervides, "3D modelling of a venous valve: How effective are postural changes under gravity, in "washout" recirculatory regions in the lee of venous valves?," *Πληροφορική*, pp. 56, December 2010
- V. Diaz-Zuccarini, et al., "Adaptation and development of software simulation methodologies for cardiovascular engineering: present and future challenges from an end-user perspective," *Philos Transact A Math Phys Eng Sci*, vol. 367, pp. 2655-66, 2009
- J. Narracott, et al., "Analysis of a mechanical heart valve prosthesis and a native venous valve: Two distinct applications of FSI to biomedical applications," *International Journal for Numerical Methods in Biomedical Engineering*, vol. 26, pp. 421-434, 2009
- C. Zervides, et al., "The effect of a valvulosis on venous haemodynamics: A numerical investigation," *Congenital Cardiology Today*, vol. 6, pp. 10-14, 2008
- C. Zervides, et al., "The role of venous valves in pressure shielding," *Biomed Eng Online*, vol. 7, p. 8, 2008

Selected Publications (Conference Papers)

- C. Zervides, "Προσθετική αορτική βαλβίδα για διαδερματική εμφύτευση," presented at the 12th Cyprus Surgical Congress, Nicosia, Cyprus, 2010
- C. Zervides, "An innovative therapeutic approach to congenital venous valve aplasia," presented at the 2nd International Conference of the Cyprus Society of Human Genetics, Nicosia, Cyprus, 2010
- C. Zervides, "Obesity and its effects in Cypriot population. How can exercise help?," presented at the 2nd International Conference of the Cyprus Society of Human Genetics, Nicosia, Cyprus, 2010
- H. Ghanbari, et al., "Development Of A Novel Synthetic Leaflet Heart Valve Using A New Nanocomposite Material With Advanced Biomechanical Properties," presented at the 5th Biennial Meeting of The Society for Heart Valve Disease, 2009
- Narracott, et al., "The analysis of a mechanical heart valve prosthesis and a native venous valve using commercial fluid-structure interaction codes," presented at the 1st International Conference on Computational

& Mathematical Biomedical Engineering, Swansea, UK, 2009

- S. Tzamtzis, et al., "Minimally Invasive Aortic Valve Prosthesis," presented at the Innovations in Cardiovascular Interventions, Tel-Aviv, Israel, 2009
- F. C. Marincola, et al., "Sviluppo di una nuova valvola cardiaca polimerica," presented at the Associazione Italiana Per L'Analisi Delle Sollecitazioni: XXXVII Convegno Nazionale, Rome, Italy, 2008
- C. Zervides, et al., "Development of numerical models for quantitative evaluation of venous valves: 1D and 3D results," presented at the 8th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering, Porto, Portugal, 2008
- C. Zervides and D. R. Hose, "A simple Computational Model-Based Validation of Guyton's closed circuit analysis of the heart and the peripheral circulatory system," presented at the Conf Proc IEEE Eng Med Biol Soc, 2005

Selected Publications (Patents)

- G Burriesci, AM Seifalian, C Zervides, "Heart Valve Prosthesis" - EP Patent 2,413,842, 2012
- AM Seifalian, C Zervides, G Burriesci, "Heart Valve Prosthesis" - US Patent App. 13/262,539, 2010

Selected Publications (QA Protocols co-author)

- Quality control in cone-beam computed tomography (CBCT). EFOMP-ESTRO-IAEA protocol, 2016

Publications Under Review or In Print

- de las Heras, Hugo; Schoefer, Felix; Schöfer, Hans; Sanchez, Roberto; Zervides, Costas; Mair, Katharina; Al-Zoubi, Qais; Renger, Bernhard; Schlattl, Helmut, "A patient-centric approach to quality control and dosimetry in CT and CBCT", Physics in Medicine and Biology.

References Are Available On Request