

# **Curriculum Vitae**

## **Personal information**

Surname / First name	<b>Angeli Stelios</b>
Address	5B Konstantinou Kenti str, Latsia, 2235 Nicosia, Cyprus
Telephone	
E-mail	
Nationality	Cypriot
Date of birth	12 <sup>th</sup> September 1984
Gender	Male
Status	Married – One child

## **Work Experience**

Dates	Jan 2010 – Today
Occupation	Medical Physicist
Main activities and responsibilities	<ul style="list-style-type: none"><li>- Protocol optimisation for MR Imaging</li><li>- Perform MRI – CT examinations</li><li>- Perform classical radiology examinations (X-Rays, Mammography, Panoramics, DEXA)</li></ul>
Name of employer	Prognosis Advanced Diagnostic Centre
Dates	Jan 2011 – Today
Occupation	College Lecturer
Main activities and responsibilities	<ul style="list-style-type: none"><li>- Teaching of Computed Tomography (3<sup>rd</sup> Year - Winter Semester)</li><li>- Teaching of Magnetic Resonance Imaging (3<sup>rd</sup> Year - Spring Semester)</li><li>- Teaching of Radiotherapy and Radiation Safety (3<sup>rd</sup> Year - Spring Semester)</li></ul>
Name of employer	Intercollege Larnaca
Dates	Dec 2009 – Jan 2013
Occupation	Biomedical Engineer
Main activities and responsibilities	Research Associate in the Laboratory of Physiology and Biomedical Imaging
Name of employer	University of Cyprus

## **Education and training**

Dates	Sept 2010 – Today
Title of qualification awarded	PhD in Mechanical and Manufacturing Engineering
Principal subjects	Biomechanics of Tumor Growth
Institution	University of Cyprus – Department of Mechanical and Manufacturing Engineering - CY
Grade	Pending
Dates	Oct 2008 – Sept 2009
Title of qualification awarded	MSc in Biomedical Engineering with Medical Physics
Principal subjects	<ul style="list-style-type: none"><li>- Biomedical Imaging</li><li>- Advanced Medical Imaging</li><li>- Image Processing</li><li>- Nuclear Medicine</li><li>- Physiological Monitoring and Data Analysis</li><li>- Statistics and data Analysis</li><li>- Radiotherapy Physics – Radiobiology</li><li>- Systems Physiology</li><li>- Modelling in Biology</li><li>- Regulatory Requirements for Medical Devices</li><li>- Health and Safety Engineering</li></ul>
Institution	Imperial Collage London – Department of Bioengineering – UK
Grade	66/100

Dates | Oct 2004 – Jul 2008  
 Title of qualification awarded | University Degree  
 Principal subjects | Physics - Specialized in Nuclear Physics and Elementary Particles  
 Institution | National Kapodistrian University of Athens – Department of Physics - GR  
 Grade | 7.3/10

Dates | Sep 1999 – Jun 2002  
 Title of qualification awarded | Certificate of Secondary Education (Science Section)  
 Principal subjects | -Physics (20/20)  
 -Mathematics (20/20)  
 -Biology (19/20)  
 -Chemistry (19/20)  
 -Greek (18/20)  
 Institution | Apostolos Varnavas Lyceum – Nicosia, Cyprus  
 Grade | 19,4/20

Dates | Sep 1996 – Jun 1999  
 Title of qualification awarded | Certificate of Secondary Education (Gymnasium)  
 Institution | Stavros Gymnasium – Cyprus  
 Grade | 19,5/20

### Spoken Languages

Mother Language | Greek

Other languages  
 Self-assessment

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Independent user	Independent user	Proficient user
French	Basic User	Basic User	Basic User	Basic User	Basic User

- Passed IELTS Academic Test with an overall Band Score of 7.0. (Listening: 7.5, Reading: 8, Writing: 6, Speaking: 7) (May 2007)
- Obtained "London Examinations General Certificate of Education" in English Language with Grade B (June 2001)
- Obtained "London Examinations General Certificate of Education" in French with Grade C (June 2000)

### Technical skills and competences

- Excellent skills in designing and conducting experiments.
- Capable to operate radiation inspectors (NaI, GM etc).
- Capable to perform material characterisation/testing using Dynamic Mechanical Analysis (DMA), Universal Testing Machine (UTM), strain gauges.
- Excellent skills in measuring techniques.

### Computer skills and competences

- Experienced user of Microsoft Office and Internet browsing.
- Experienced user of digital measuring software and other advanced Scientific software (Logger Pro, XLstat, Labchart, ImageJ, AutoCAD, MeshLAB etc).
- Experienced user of Fortran programming language as well as basic user of Visual Basic and Pascal programming languages.
- Very Good user of Geant 4, GATE 1.0.0, COMSOL Multiphysics, XFtd, Patran-Nastran and SpinBench simulation packages.
- Excellent knowledge of computer hardware.
- Experienced user of Matlab.

## Research Activities

Participates (as a PhD student) in the research activities of the Tumor Biophysics Lab of the University of Cyprus.

Participation in the research activities of the Laboratory of Physiology and Biomedical Imaging of the University of Cyprus. Such activities included Magnetic Resonance Imaging, image analysis, RF coil development, mechanical characterisation of tissue mimicking materials, computer simulations and murine cardiac catheterisations. Also participated in the experimental efforts in the Centre of In Vivo Microscopy (CIVM, Duke University, USA) aimed the DENSE and DTI imaging of the murine heart using a 7.1 T and a 9.4 T MR system. Employed as a research associate in four research projects.

Characterization of a novel MR insert coil with simulations, magnetic field measurements, analytic calculations and NMR probes design. Such an effort was a part of a greater research project aiming the development of a planar insert coil and a MEMS coil aiming respiratory artefact compensation and high resolution acquisition in liver MRI.

Development of a novel Algebraic Reconstruction Algorithm enabling faster image reconstruction from a limited number of projections acquired by SPECT systems. The development was part of a research project aiming the improvement of  $\gamma$ -camera acquisitions.

## Journal Publications

**Angeli S**, Befera N, Peyrat JM, Calabrese E, Johnson GA, Constantinides C. *A High-Resolution Cardiomyofiber Atlas of the ex-vivo C57BL/6 Murine Heart using Diffusion Tensor Imaging*. Journal of Cardiovascular Magnetic Resonance 16:77, 2014.

**Angeli S.**, Constantinides C. *Regional Cardiac Function: Across Mammalian Species Comparison – The Paradigm of the Mouse for MR Image-Based Phenotyping*. Constantinides C (Editor), Latest Advances in Cardiovascular Imaging, Amsterdam: Bentham Science Books, 2013.

**Angeli S**, Panayiotou C, Psimolofitis E, Nicolaou M, Constantinides C. *Stress-Strain Characteristics of Elastomeric Membranes under Uniaxial Testing: Theoretical Formulation, Experimental tests, and Computational Validation*. Mechanics of Advanced Materials and Structures, accepted for publication, 2013.

Constantinides C, **Angeli S**. *Elimination of Mutual Inductance in NMR Phased Arrays: The Paddle Design Revisited*. Journal of Magnetic Resonance 222:59-67, 2012.

Kossivas F, **Angeli S**, Kafouris D, Patrickios C, Constantinides C. *MRI Based Morphological Modeling, Synthesis, and Characterization of Cardiac Tissue Mimicking Materials*. IOP Biomedical Materials 7(3), 2012.

Constantinides C, **Angeli S**, Kossivas F, Ktorides P. *Underestimation of Murine Cardiac Hemodynamics using Invasive Catheters: Errors, Limitations, and Remedies*. Journal of Cardiovascular Engineering and Technology (CVET) 3(2):179-193, 2012.

Constantinides C, **Angeli S**. *Murine Cardiac Catheterizations and Hemodynamics: On the Issue of Parallel Conductance – A Quantitative Study*. IEEE-TBME 58(11):3260-8, 2011.

Constantinides C, **Angeli S**, Mean R. *Changes in Murine Cardiac Ionotropy and Hemodynamics following Manganese Administration under Isoflurane Anesthesia*. Annals in Biomedical Engineering, 39(11):2706-2720, 2011.

Constantinides C, **Angeli S**, Gkagarelis S, Cofer G. *Intercomparison of Performance of RF Coil Geometries for High Field Mouse Cardiac MRI*. Concepts in Magnetic Resonance Part A, Vol. 38A(5):236-252, 2011.

Awan S, McGinley J, Dickinson R, **Angeli S**, Young I. *Design and Development of a Planar  $B_0$ -Coil for Patient Respiratory Motion Correction in Magnetic Resonance Imaging*. Concepts in Magnetic Resonance Part B, Vol 41B(4):130-138, 2012.

## Conference Publications

**Angeli S**, Befera N, Peyrat JM, Calabrese E, Johnson GA, Constantinides C. *A High-Resolution Cardiomyofiber Atlas of the Murine Heart*. Proceedings of the International Society of Magnetic Resonance in Medicine (ISMRM), Milan, Italy 2014.

**Angeli S**, Psimolophitis E, Nicolaou M, Constantinides C. *Computational, Image-Based, and Experimental Stress-Strain Comparisons of Elastomers*. Proceedings of the European Society of Biomechanics Conference, Patra, Greece 2013.

**Angeli S**, Befera N, Cofer G, Johnson GA, Constantinides C. *Construction of a Fiber Atlas of the Murine Heart*, Proceedings of the International Society of Magnetic Resonance in Medicine (ISMRM), Salt Lake City, USA 2013.

**Angeli S**, Kossivas F, Kafouris D, Patrickios CS, Tzagarakis V, Constantinides C. *Cardiac Tissue Regeneration: MRI Based Morphological Modeling, Synthesis, and Characterization of Tissue Mimicking Materials*. Biomedical Engineering Society (BMES), 2012, Atlanta, USA 2012.

**Angeli S**, Mean R, Constantinides C. *Computational and Experimental Validation of Electric Field Propagation in Miniature Catheter for Parallel Conductance Estimation*. Proceedings of the American Heart Association (Circulation Research), New Orleans, USA 2011.

**Angeli S**, Stiliaris E. *An Accelerated Algebraic Reconstruction Technique based on the Newton-Raphson Scheme*, IEEE Nuclear Science Symposium Conference Record M09-323, pp. 3382-3387, Orlando, USA 2009.

Charalambous N, Michaelides K, Psimolofitis E, Tzagarakis V, Michaelides D, **Angeli S**, Constantinides C. *Computational Fluid and Structural Dynamics* Proceedings of the International Society of Magnetic Resonance in Medicine (ISMRM), Utah, USA 2013.

Constantinides C, **Angeli S**. *Minimizing Mutual Inductance in NMR Phased Arrays: The Paddle End-Ring Design Revisited*. Proceedings of the International Society of Magnetic Resonance in Medicine (ISMRM), Melbourne, Australia 2012.

Constantinides C, **Angeli S**, Kossivas F, Ktorides P. *Underestimation of Murine Cardiac Hemodynamics using Invasive Catheters*. Experimental Biology (FASEB Journal), San Diego, USA 2012.

Constantinides C, **Angeli S**, Mean R. *Quantification of Hemodynamics in Murine Myocardium following Manganese Infusion*. Experimental Biology (FASEB Journal), Washington DC, USA 2011.

Constantinides C, Gkagarelis S, **Angeli S**, Cofer G. *A Novel Spiral Radiofrequency Coil for High Field Mouse Cardiac Imaging*. 32nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (IEEE-EMBS) 'Merging Medical Humanism and Technology', Buenos Aires, Argentina 2010.

## Memberships

- Member of the Cyprus Medical Physicist Association
- Member of the Cyprus Association of Medical Physics and Biomedical Engineering (CAMPBE)
- Member of the International Society of Magnetic Resonance

## Additional information

- Awarded two stipends for participation in the International Society of Magnetic Resonance (ISMRM) Meetings in Melbourne (AU, 2012) and Salt Lake City (USA, 2013).
- Awarded a scholarship for being among the top 3 students with the highest mark in the first year of undergraduate studies (3<sup>rd</sup> Place)
- Awarded a scholarship from the "Cyprus Scholarship Board" for undergraduate studies due to Excellent performance during secondary education.

During the 3 year studies in the Secondary School (Lyceum) I was awarded the following prizes:

- 8<sup>th</sup> prize in the Cyprus National Physics Competition of Cyprus Secondary Schools
- 1<sup>st</sup> prize for the highest mark in Mathematics, Physics of all graduating students
- Special Prize for general contribution to the school
- Prize for outstanding performance

Many honorary mentions and certificates were awarded for participation to

- Cyprus (District & National) Physics Competition
- Cyprus National Mathematics Competition
- Environmental Educational Program "Golden - Green Leaf"
- Participation to many students seminars
- Young researchers by Cyprus Scientists Academy

**Military Service** | July 2002 – Sep 2004  
Sergeant of Heavy Artillery

**Supplementary Material  
(Upon Request)** | The following can be provided upon request:

- References
- Copies of the scientific publications
- Copies of transcripts or certificates