Curriculum Vitae

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Angela Lungu

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Angela Lungu
Date of birth: 24. 03. 1986
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Work Experience

Technical University of Cluj-Napoca, Faculty of Electrical Engineering

Oct 2020-present, Lecturer

- Teaching (course holder)- Biological Systems
- Facilitator of the practical applications and seminaries for the following disciplines: Medical Informatics, Image Processing, Biological Systems and Programing Languages-C
- Supervisor and co-supervisor of 4th year undergraduate students (graduation projects).
- Mentor for the 3rd and 4th year medical engineering undergraduate students.

Oct 2016-Oct 2020, Teaching Assistant

- Facilitator of the practical applications and seminaries for the following disciplines: Medical Informatics, Image Processing, Biological Systems and Programing Languages-C.

Research Experience

Dec 2018- Dec 2019, Research Assistant- Faculty of Electrical Engineering

- Study of metamodels design and simulation for autonomous driving - PartEnerIC

Nov 2015-March 2016, Research Associate-University of Sheffield, Academic Radiology Unit

- 2D MRI medical images processing for non-invasive assessment of their clinical status.
- Co-supervision of undergraduate bio-medical students.

May 2015-Nov 2015, Research Assistant- INSIGNEO-Institute for in-silico medicine, UK,

- Development and implementation of a plug-in for the assessment of pulmonary hypertension using 2D medical images and simple mathematical models.

Education

Nov 2011-March 2016, PhD -University of Sheffield (UoS), Faculty of Medicine, Dentistry and Health, Department of Infection, Immunity and Cardiovascular Disease, UK

- Thesis title: *MR image based measurement, modelling and diagnostic interpretation of pressure and flow in the pulmonary arteries: applications in pulmonary hypertension.* (http://etheses.whiterose.ac.uk/12138/) -submitted-Sept 2015
- Supervisors: Prof. Rod Hose (UoS) and Prof. Jim Wild (UoS)

Oct 2009-June 2011, Master degree in Applied Engineering Sciences- Technical University of Cluj-Napoca, Faculty of Electrical Engineering

- Dissertation title: *The carotid artery reconstruction and CFD flow analysis.*

Oct 2005-June 2009, Bachelor degree in Medical Engineering -Technical University of Cluj-Napoca, Faculty of Electrical Engineering

- Forth year graduation project's title: *The closure of the mechanical heart valves.*

Bursaries and Funding

- PhD project funded by The Engineering and Physical Sciences Research Council (EPSRC) ,UK
- INSIGNEO Bursary for Clinical Translation to the Sheffield Hospitals Charity (6 months).
- Learned Societies Funding (UK) for conference participation, June 2014 and Sept 2015.

Member of institutional (TUCN) projects

- Education and career counseling to reduce the number of students dropping out university-EDCONFIE
- Advancing University Education in Biomedical Engineering and Health Management in Kyrgyzstan-KyrMedu

Collaborations in other research projects

- Aortic valve CFD simulations (with Philips Research, Hamburg, Germany)
- Medical images segmentation and vessel reconstruction (with Prof. Paul Evans, Sheffield, UK)
- 0D electrical parameters tuning for the coronary arteries (vFFR project, Sheffield, UK)

Key Skills

Computing and Technical

- Programming, image processing, mathematical/numerical modeling and machine learning.
- Everyday user of: MATLAB, Ansys (ICEM, CFX, CFD-Post), Vmtk, SPSS, GraphPrism

Communication

- Good communication, social networking abilities and presentations skills developed through oral and poster presentations at national and international conferences and scientific meetings.

Leadership and Management

- Ability to plan, set goals and define priorities, resulting from a good management of the PhD project and the Clinical Translation bursary. Ability to guide and supervise undergraduate students to elaborating term and graduate projects.

Teamwork

- Ability to adapt to the group dynamics and requirements, proven by the fruitful external and internal collaborations.

National and International Affiliations and Memberships

- Pulmonary Vascular Research Institute (PVRI)
- INSIGNEO –Institute for *in silico* Medicine
- VPH Institute
- Romanian National Society of Medical Engineering and Biological Technology