

Viton Vitanis



Date and place of birth | February 15, 1982, Drama, Greece
Nationality | Greek
Swiss Work Permit | Type B
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RESEARCH & PROFESSIONAL EXPERIENCE

Researcher

Institute for Biomedical Engineering, University and ETH Zurich, Zurich, Switzerland (September 2005 - Present)

- Developed and implemented reconstruction methods for the assessment of ischemic heart disease in humans using myocardial perfusion Magnetic Resonance Imaging
- Implemented and evaluated quantitative perfusion analysis methods on accelerated myocardial perfusion image series
- Assisted in conducting clinical studies for the diagnosis of ischemic heart disease

Developer

Institute for Surgical Technology and Biomechanics, University of Bern, Bern, Switzerland (January 2005 - July 2005)

- Developed the 3D Medical Image Segmentation Module for the “MEM STB Platform”, a framework for computer assisted surgery

Junior Researcher

Computer Vision Laboratory, ETH Zurich, Zurich, Switzerland (February 2004 - July 2004)

- Developed a particle-based model for the formation of vessels in the uterine region and their interaction with a tumor (Diploma Work - ERASMUS scholarship)

Intern

Institute for Surgical Technology and Biomechanics, University of Bern, Bern, Switzerland (July 2003 - December 2003)

- Developed an application for X-ray-based pre-operative planning of long bone fracture reductions
- Developed an inventory database and a library database using Lotus Domino

PROJECT SUPERVISION

Project Supervisor

Institute for Biomedical Engineering, University and ETH Zurich, Zurich, Switzerland

Design and supervision of the following Semester Projects:

- “Semi-Automatic Definition of Myocardial Contours for Perfusion MR Imaging”
Anastasia Sylaidi (February - July 2008)

PROJECT SUPERVISION (continued)

- “Improving the Temporal Fidelity of the k - t SENSE Reconstruction”
Benjamin Frey (March - July 2007)
- “Motion Compensation in k - t SENSE Accelerated Cardiac Perfusion Imaging”
Emily Manning (February - July 2007)
- “Dynamic Magnetic Resonance Imaging with k - t GRAPPA”
Cem Murat Deniz (February - July 2006)

TEACHING EXPERIENCE

Teaching Assistant

Institute for Biomedical Engineering, University and ETH Zurich, Zurich, Switzerland (February 2006 - July 2008)

- Biomedical Engineering I
- Magnetic Resonance Imaging
- Specialized Laboratory Course on Cardiac Electrophysiology (Supervisor)
- Philips Pulse Programming Course

Didactic Training

Centre for Teaching and Learning of the ETH Zurich, Zurich, Switzerland (September 9-11, 2006)

- Didactic Workshop for Teaching Assistants

EDUCATION

PhD in Magnetic Resonance Imaging

Institute for Biomedical Engineering, University and ETH Zurich, Zurich, Switzerland (September 2005 - Present)

- Degree: Doctor of Science (PhD work defended on August 26, 2010)
- Subject: Accelerated Magnetic Resonance Myocardial Perfusion Imaging

Diploma in Electrical and Computer Engineering

Electrical and Computer Engineering Department, Aristotle University of Thessaloniki, Thessaloniki, Greece (September 1999 - November 2004)

- Degree: Diploma in Electrical and Computer Engineering
- Specialization: Electronics and Computers
- Grade: 8.14/10 (17th of 234)
- Diploma Work: “Vascularization of Tumor Growth Models”

Secondary Education

High School of Eleftheroupoli, Kavala, Greece (September 1996 - July 1999)

- Average Grades from 1996 to 1999: 20/20

ASSOCIATIONS & ORGANIZATIONS

Leadership

- President of the Hellenic Student Association of Zurich, Zurich, Switzerland (May 2007 - September 2008)
- Member of the Board of the Hellenic Student Association of Zurich, Zurich, Switzerland (July 2006 - September 2008)
- Member of the board of the Association of the Mittelbau at the Department of Information Technology and Electrical Engineering (VMITET), ETH Zurich, Zurich, Switzerland (December 2005 - March 2007)

Membership

- Member of the Institute of Electrical and Electronics Engineers (IEEE)
- Member of the International Society for Magnetic Resonance in Medicine (ISMRM)
- Member of the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB)
- Member of the Society for Cardiovascular Magnetic Resonance (SCMR)

LANGUAGES

- Greek: Mother Tongue
- English: Excellent - Certificate of Proficiency (University of Michigan, 1998)
- German: Very good - ZOP (Goethe Institute, 2010)

COMPUTER SKILLS

Programming

Languages

- C, C++, Java, SQL, Fortran, Pascal, LotusScript

Libraries and Tools

- Microsoft Visual Studio, Qt, OpenGL, ITK, VTK, Eclipse, NetBeans

Software Packages

- MATLAB, Mathematica, LaTeX, R, Microsoft Office

DISTINCTIONS & AWARDS

- ISMRM Educational Stipend (ISMRM Stipend Committee, 2007-2008)
- ERASMUS Scholarship (ETH Zurich, Zurich, Switzerland, 2004)
- University Admission Scholarship (City of Eleftheroupoli, Kavala, Greece, 2000)
- Top Student Award (High School of Eleftheroupoli, Kavala, Greece, 1996-1999)
- Prize of Excellence (High School of Eleftheroupoli, Kavala, Greece, 1996-1999)

PUBLICATIONS

- Under: <http://www.vitanis.net/files/publications.pdf>

ACTIVITIES & INTERESTS

- Basketball (player of Kronos Basket Zurich - Herren 3. Liga West)
- Avid photography fan
- Athens 2004 Olympic Games Volunteer