

# Georgios F. Pierris

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## Education

### University of Wales, Newport

PhD in Robotics

*expected date of finish April 2012*

EU Funded FP7 ROBOSKIN Project

Thesis Committee: Torbjorn Dahl (advisor), Brendan D'Árcaigh

Wales, United Kingdom

### Technical University of Crete

Diploma in Electronic and Computer Engineering *5 year degree*

*GPA 8.0/10.00, April 2009*

Thesis title: Soccer Skills for Humanoid Robots

Thesis Committee: Michail G. Lagoudakis (advisor), Nikos Vlassis,  
Katerina Mania

Chania, Greece

### Kryoneri High School

June 2003, GPA : 18.4/20.0

Graduated 1st in class and received a money scholarship  
from Eurobank.

Athens, Greece

## Research Interests

Robotics, Motion Planning, Artificial Intelligence, Autonomous Agents,  
Artificial Life, SAT problems, Network applications, Reinforcement Learning,  
Neural Networks, Multi-agent Systems, Auctions, Stochastic Games, Motion Capture

## Research Experience

### Early Stage Development Funded (ESDF) project

February 2011 - March 2011

Leader of the software engineering work package to research,  
and develop a set of machine learning algorithms with  
applications on file pattern recognition to help  
digital forensics investigators fight e-crimes, pedophilia etc.

### Research Coordinator in ICT, EWB, UK

December 2010 - present

Management of Industry-Academia partnered projects in ICT.  
Engineers Without Borders is a non-profit organization  
aiming to alleviate poverty through engineering projects

### EU-COGNITION member

March 2010 - present

European Network of researchers in Cognitive Science

### Research Associate in RoboDoc project

March 2010 - present

Marie-Curie Funded Project

### Motion Capture Technologies

December 2009 - present

"Retargeting" methods for real time human to robot teleoperation

### **Newport's RoboCup Team**

Team Leader of the University of Wales, Newport,  
Simulation Robocup Team

November 2009 - present

### **RoboCup Team "Kouretes"**

Member of the Technical University of Crete RoboCup team  
Aibo robots (localization) and Nao robots (motion skills)

November 2006 - May 2009

## **Publications / Technical Reports**

- Georgios Pierris and Torbjørn S. Dahl, Compressed Sparse Code Hierarchical SOM on Learning and Reproducing Gestures in Humanoid Robots, Proceedings of the IEEE International Symposium in Robot and Human Interactive Communication (RO-MAN'10), Viareggio, Italy, September 12-15, 2010
- Georgios Pierris and Michail G. Lagoudakis, An Interactive Tool for Designing Complex Robot Motion Patterns, Proceedings of 2009 IEEE International Conference on Robotics and Automation( ICRA 2009 ), May 12 - 17, 2009, Kobe, Japan
- Andreas Panakos, Alexandros Paraschos, Georgios Pierris, Daisy Chroni, Efstathios Vafeias, Eleftherios Chatzilaris, Evangelos Vazaios, Michail G. Lagoudakis, Nikos Vlassis, Kouretes 2008: Nao Team Report, November 2008.
- Kouretes+AUEBo 2008, Aibo Standard Platform League Team Description Paper, Proceedings of the 12th RoboCup International Symposium, July 2008, Suzhou, China.
- Kouretes 2008, Nao Standard Platform League Team Description Paper, Proceedings of the 12th RoboCup International Symposium, July 2008, Suzhou, China.

## **Invited Talks**

- Tactile Feedback for Social and Industrial Robots, invited by the British Computing Society, February 2011
- An Interactive Tool for Designing Complex Robot Motion Patterns, Forum Mobile Roboter And Autonome Systeme, Hannover Messe, April 2009

## **Participations**

### **Competitions**

- RoboCup 2011, Istanbul, Turkey, July 5-11, 2011  
Ranked 3rd among 26 teams around the world in the Nao Standard Platform League and 2nd in the Open Challenge Competition.
- GermanOpen 2011, Magdeburg, Germany, March 31-April 3, 2011  
Ranked 7th among 12 teams in the Nao Standard Platform League
- RoboCup 2008, Suzhou, China, July 14-20, 2008  
Ranked 3rd among 16 teams around the world in the Nao Standard Platform League
- RomeCup 2008, Rome, Italy, May 15, 2008  
Ranked 3rd among 3 teams in the Aibo Standard Platform League.
- GermanOpen 2007, Hanover, Germany, April 16-21, 2007  
Ranked 7th among 10 teams in the Aibo Standard Platform League.

## Expositions / Fairs

- The National Eisteddfod Event, Ebbw Vale, Wales, UK, August 6-7, 2010, Member of the RoboCup Event organizing committee of the 3D simulated league and the Standard Platform League
- The National Eisteddfod Event, Ebbw Vale, Wales, UK, July 31 - August 7th, 2010, Exposing people to robotics, controlling the Naos using XBOX-360 controllers and real time Nao control wearing a motion capture suit
- Festival della Creativita, Florence, Italy, October 24-26, 2008  
Nao and Aibo exhibition games between Kouretes and S.P.Q.R
- Athens Digital Week, Athens, Greece, October 14-16, 2008  
Nao and Aibo exhibition games between Kouretes and S.P.Q.R
- Technotown, Villa Torlonia, Rome, Italy, May 10-11, 2008  
Aibo exhibition games between Kouretes and S.P.Q.R
- Hi-Tech Innovators Partenariat, Thessaloniki, Greece, October 5-6 , 2007  
Demonstration games with invited team Cerberus

## Work Experience

**Self-Employed Software Engineering Consultant** February 2011 - present  
C++, Python, Matlab, Special Projects  
Cardiff, UK

**Private Lessons Tutor** September 2006 - June 2008  
Maths Lessons,  
High School Students, Chania, Greece

**Call Center Agent** July 2006  
Collections Department,  
First Data, Ag.Stefanos, Attikis, Greece

**Call Center Agent** June 2005 - August 2005  
Sales Department,  
First Data, Ag.Stefanos,Attikis, Greece

**Human Resources Administrator** June 2004 - August 2004  
HR department, Training Program  
First Data, Ag.Stefanos, Attikis, Greece

## Computer Skills

### Programming Languages:

High Expertise : C, C++, Python, Java, Ruby, SQL, VHDL, L<sup>A</sup>T<sub>E</sub>X

Medium Expertise : Urbi, HTML, Assembly, flex, bison

### Operating Systems:

Linux, Windows

### **Software Applications:**

Matlab, Webots, MSOffice, OpenOffice, MySQL, Qt, FLTK

### **Miscellaneous:**

TCP/IP networking, troubleshooting and debugging skills

## **Language Skills**

- **Greek**  
Mother tongue
- **English**  
TOEFL iBT : 106 November 2008  
Proficiency in English by University of Cambridge  
Proficiency in English by University of Michigan
- **German**  
Zertifikat Deutsch(B1) by Goethe Institut

## **Extracurricular Activities**

Member of The Greek MENSA, The High IQ Society.

Received my Lifeguard license in August 2005

Joined the Research and Rescue Volunteer Unit 'Dias' as Lifeguard

Playing a Greek traditional instrument named 'Bouzouki'

**Hobbies :** Fishing, Skiing, Basketball, Music, Traveling

## **Personal Information**

Date and Place of Birth : May 6, 1985 in Cholargos, Attiki

Nationality : Greek

Marital Status : Single

## **References**

Reader/Coordinator Dr. Torbjorn S. Dahl  
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University of Wales, Newport  
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Email: torbjorn.dahl@newport.ac.uk

Assistant Professor Michail G. Lagoudakis  
Department of Electronic and Computer Engineering  
Technical University of Crete, Greece  
Phone: +30-28210-37244  
Email: lagoudakis@intelligence.tuc.gr