



# Demetris Gerogiannis

## CONTACT


Nationality: Greek

Gender: Male

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<https://www.linkedin.com/in/dgerog>

<https://github.com/dgerog>

Skype: skype

## WORK EXPERIENCE

**01/01/2008 - CURRENT**

### DeepTech Consultant / Entrepreneur

#### DeepTech Skills:

Algorithm Design, Software Development, Databases, Networks, Artificial Intelligence (AI), Machine Learning (ML), Computer Vision (CV), Deep Learning, DLT (Blockchain), Smart Contracts, Autonomous Vehicle Navigation, Wearable Devices, IoT.

#### DevOps Skills:

C/C++, PHP (CodeIgniter), Python (Scikit Learn, NumPy, TensorFlow), NodeJS (ExpressJS, Mongoose, JWT), Web programming (HTML/CSS/JS - AJAX), Wordpress (Deployment, Plugin Dev, Theme Dev), XML, Matlab, UNIX, LATEX, MySQL, MongoDB, OpenCV, System Admin, Network Security, Git, GDPR, Solidity, REST API Development (OAuth2), Docker, Kubernetes, DigitalOcean.

#### Business Dev Skills:

Business Model Canvas, Value Proposition Canvas, Unit Economics, Financial Projections Analytics.

#### Project Proposal Submission/Project Coordination:

EU Funded / National Funded project proposal preparation & submission, Project coordination.

**01/01/2012 - 30/06/2014**

### Software analyst

QReca! Private Company

Co-founder and CEO/CTO of a startup that provided digital marketing services. Build a platform for fast, easy and cost effectively development of web applications running on mobile devices, triggered by QR codes and NFC tags. The technology is licensed to a British firm for further exploitation.

#### Milestones:

- 2013 – Startupbootcamp @ Amsterdam, NL. The startup was selected among 250+ international startups that have applied for this accelerator project.
- 2013 - Outreach Europe Program - Startup Activation @ Trento, IT. QReca! and one more Greek startups were selected in that program from that region.

Ioannina, Greece

01/01/2015 - 01/01/2017

● **Software analyst**

CemUP Inc

Serving as a remote software analyst for a US fitness startup my job was to study and develop a platform for remote coaching. The basic concept was to give a tool for allowing coaches to train online & offline athletes (personal/group training) and athletes to search for coaches and hire them. I worked as a full stack developer and developed the API system (as a standalone engine) to support the backend and frontend (iOS/Android mobile app).

A corporate wellbeing version was also included, giving the opportunity to companies to use it for offering wellbeing benefits to their employees.

The platform was also integrated with 3rd party solutions to sync with fitness devices (Fitbit).

Finally, a basic bot installation was developed allowing frontend users to start their own training programs by defining their availability and fitness goals.

Intro Video: [https://www.youtube.com/watch?v=GfnIfGD\\_Ybl](https://www.youtube.com/watch?v=GfnIfGD_Ybl)

Austin, United States

01/06/2017 - 31/05/2018

● **Software analyst**

IAMSupportCare Ltd

IAMSupportCare was a spin-off project of CemUP with the aim to serve as a hub for children with assistive technology via a health and wellness portal.

The CemUP platform was partially used and a special feature was integrated in the CemUP core platform (the parental access) allowing parents to create custodian accounts and control them on behalf of them.

Austin, United States

01/01/2018 - CURRENT

● **Software analyst**

Mantis Business Innovation Private Company

As a CTO of the company I have worked in the following projects:

1. Mantis Innovation Management System (Mantis IMS): A platform to organize innovation actions as a digitalization of pipelined process, from the initial phase (collect project proposals), the evaluation process (one or more phases - evaluators can be invited to evaluate assigned submissions electronically) and the monitoring (via KPIs tracking) of accepted proposals. My duties in that project included:

- product development (system architecture -workflows/user scenarios - data models/database architecture)
- software development (backend server - frontend UI) - PHP/MySQL + HTML/CSS/jQuery
- setup of the CI/CD pipeline to maintain and deliver new functionalities for the clients

- setup the customer support pipeline including the designing and implementation of a knowledge database

2. (Hellenic) National Startup Registry: An initiative to identify the Greek startup ecosystem. The Mantis IMS was licensed and used by the Greek government to create a holistic directory of the innovation ecosystem in Greece.

My duties in that project included:

- configuration of the related Greek government cloud infrastructure in order to install the Mantis IMS platform
- support the corresponding staff to use the installed platform
- consultancy to the Greek Government (Ministry of Development) regarding the operations of the installed platform and how that could be used efficiently for the various Greek state's needs.

3. Online training system: To cover various Greek chambers' needs to deliver online training to their members regarding the Covid19 safety protocols I designed and built an online learning management system (installation - content upload - customer support)

Information and communication | Athens, Greece

**2007 - 2009**

### ● **University research assistant**

Technological and Educational Institute of Epirus

Worked as research assistant teaching the following courses:

- Artificial Intelligence (Lab, Informatics Sector)
- Pattern Recognition (Lab, Informatics Sector)
- Web Applications (Lectures & Lab, Informatics Sector)
- Programming II (Lab, Informatics Sector)

Arta, Greece

**2009 - 2012**

### ● **Information Technologies Educator**

Institute of Professional Education

Vocational training in the fields:

- Programming (Lectures & Lab)
- Introduction to Informatics (Lab)

Ioannina, Greece

## EDUCATION AND TRAINING

**2007 - 2014** - Ioannina, Greece

## ● **PhD in Computer Science**

University of Ioannina

PhD Thesis: "Feature extraction for image and point set analysis."

Thesis degree: Excellent

My PhD research expanded in the area of Computer Vision (a combination of Image Processing and Machine Learning Techniques).

During my PhD research I dealt with low level features, proposing methods about how to extract meaningful structures from images and sets of points. Then, the features could be used to solve real life problems. In brief, I investigated and proposed solutions for the following problems:

- Image registration: The problem relies in bringing images that depict the same information but in various conditions, e.g. captured in different time periods, so as to establish an association between pixels of the images that represent the same information and study them, e.g. the progress of a cancer tumor
- Shape description: The problem relies in the extraction of features representing the shape of an object. The proposed algorithm was used to extract further information from vessels in retinal images, to describe drawings and allow them to be categorized, image compression

A list of my publications (not updated regularly): <http://www.cs.uoi.gr/~dgerogia/publications.html>

### Research Interests:

Image processing, image analysis, computer vision, pattern recognition, machine learning, robot vision, Internet of Things, Distributed Ledgers Technologies

EQF level 8

**2005 - 2007** - Ioannina, Greece

## ● **MSc in Computer Science**

University of Ioannina

MSc in Computer Science with a specialty in Technologies & Applications

EQF level 7

**2001 - 2005** - Ioannina, Greece

## ● **BSc in Computer Science**

University of Ioannina

BSc Thesis: "Solving ordinary differential equations with artificial neural networks."

Diploma degree: 7.3/10

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Greek

### English

Listening  
**C2**

Reading  
**C2**

Spoken  
production  
**C2**

Spoken  
interaction  
**C2**

Writing  
**C2**

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### German

Listening  
**A2**

Reading  
**A2**

Spoken  
production  
**A2**

Spoken  
interaction  
**A2**

Writing  
**A2**

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# PUBLICATIONS

## Publications

### Journal Papers

1. D. Gerogiannis, C. Nikou and A. Likas. Elimination of outliers from 2D point sets using the Helmholtz principle. *Signal Processing Letters*, 2015. To appear.
2. D. Gerogiannis, C. Nikou and A. Likas. Modeling sets of unordered points using highly eccentric ellipses. *EURASIP Journal on Advances in Signal Processing*, 2014:11, 2014.
3. D. Gerogiannis, C. Nikou and A. Likas. Registering sets of points using Bayesian Regression. *Neurocomputing*, Vol. 89, pp.122-133, 2012
4. D. Gerogiannis, S. A. Sofianos, I. E. Lagaris, G. A. Evangelakis. One-Dimensional Inverse Scattering Problem in Acoustics, *Brazilian Journal of Physics*, Volume 41, 2011
5. D. Gerogiannis, C. Nikou and A. Likas. The mixtures of Student's t-distributions as a robust framework for rigid registration. *Image and Vision Computing*, Vol. 27, No 9, pp. 1285-1294, 2009

### Conference Papers

1. D. Gerogianis, C. Nikou and L. Kondi. Shape encoding for edge map image compression. *IEEE International Conference on Image Processing (ICIP'15)*, 27-30 September 2015, Quebec City, Canada (accepted).
2. D. Gerogianis, C. Nikou and A. Likas. Global sampling of image edges. *IEEE International Conference on Image Processing (ICIP'14)*, 27- 30 October 2014, Paris, France
3. A. Giotis, D. Gerogiannis and C. Nikou. Word spotting in handwritten text using contour-based models. *14th International Conference on Frontiers in Handwriting Recognition (ICFHR'14)*, 1-4 September 2014, Hersonisos, Crete, Greece.
4. D. Gerogiannis, C. Nikou. Tex-Lex: Automated generation of texture lexicons using images from the World Wide Web. *International Conference on Digital Signal Processing (DSP'13)*, 1-3 July 2013, Santorini, Greece.
5. D. Gerogiannis, C. Nikou and A. Likas. Fast and efficient vanishing point detection in indoor images. *21st International Conference on Pattern Recognition (ICPR'12)*, 11-15 November 2012, Tsukuba, Japan.
6. D. Gerogiannis, C. Nikou and A. Likas. A split-and-merge framework for 2D shape summarization. *7th International Symposium on Image and Signal Processing and Analysis (ISPA'11)*, 4-6 September 2011, Dubrovnik, Croatia.
7. D. Gerogiannis, C. Nikou and A. Likas. Robust image registration using mixtures of t-distributions. *8th IEEE Computer Society Workshop on Mathematical Methods in Biomedical Image Analysis (MMBIA'07)*, in conjunction with *ICCV'07*, 14-20 October 2007, Rio de Janeiro, Brazil.

8. D. Gerogiannis, C. Nikou and A. Likas. Rigid image registration based on pixel grouping. In Proceedings of the 14th International Conference on Image Analysis and Processing (ICIAP'07). 10-14 September 2007, Modena, Italy.

## DRIVING LICENCE

● Driving Licence: B

## RECOMMENDATIONS

● Upon request.

## HONOURS AND AWARDS

### ● Honours and awards

- 1st prize at the Pre-Reload Greece (RG) Challenge Startup acceleration bootcamp (2018). RG Challenge is an intense short (about 10 days) acceleration bootcamp program to prepare a business plan and pitch an idea in front of investors that evaluate your pitch.
- 2nd prize in the Fintech Challenge (2017) business contest organized by Alpha Bank (one of the 4 systemic banks in Greece) for proposing a social entrepreneurial venture to optimize and increase trust in donations. A Smart Contract was developed as part of the implementation to support the proposal.
- 2nd prize in the Business Contest "Innovation Odysseys 2012" organized by the University of Ioannina and the Science and Technology Park of Epirus, for the development of the QReca! Platform (a set of tools for developing smart applications).
- Participated in the 13rd Innovact, 2009, Reims, France, proposing a piezoelectric apparatus for energy harvesting. The proposal was among the 28 finalists selected over 300 submissions for the Paneuropean awards "Innovact2009, Youth hopes for Innovation".
- 3rd prize in the Business Contest "Innovative Business Ideas", organized by the Business Innovation Center of Epirus, Greece (May 2006). The idea described an advertising system for Video On Demand services.

## ORGANISATIONAL SKILLS

### ● Organisational skills

Project management skills gained through my experience as CTO in various startups working with developers.

## COMMUNICATION AND INTERPERSONAL SKILLS

### Communication and interpersonal skills

Good communication skills gained through my experience

- as CTO in various startups working with developer
- as research assistant teacher
- as a vocational educator
- as teacher assistant during my MSc and PhD studies
- as member of the organizing committee, mentor and coach during the Greentech challenge acceleration program

## OTHER SKILLS

### Other skills

STARTUP & TECH MENTORING/COACHING

Member of the Organizing Committee (2018, 2019) of Greentech Challenge, organized by the National Technological University of Athens - A business acceleration program for students to learn and build a business plan. During that period I have coached more than 10 teams (Business Model Canvas/ Value Proposition Canvas building)

## ACADEMIC SERVICES & DISTINCTIONS

### Academic Services & Distinctions

- Founding member and interim chair (October 2012 – July 2013) of IEEE student branch, University of Ioannina
- Reviewer in scientific journals: IEEE Transactions on Image Processing, EURASIP Journal on Advances in Signal Processing, Intl. Journal of Control, Automation and Systems Reviewer in scientific conferences: Intl. Conference on Digital Signal Processing 2013 Book chapter reviewer at [PACKT] Publishing

## PATENTS

### Patents

"A system for automatic embedding of advertisements in a video streaming process", Greek Patent Office (2007).



## VOLUNTEER ACTIVITIES

### ● Volunteer Activities

- XXVII Olympic Games, Athens 2004. Olympic Village, in the accreditation department
- Member of the Organizing committee of TEDxIoannina
- Blood donor
- startup mentor

## GENERAL INTERESTS

### ● General Interests

Startups, chess, reading, traveling, engineering