







PERSONAL INFORMATION

Louisa Giannoudi



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 [http://www.linkedin.com/profile/view?id=99288813&trk=hb\\_tab\\_pro\\_top](http://www.linkedin.com/profile/view?id=99288813&trk=hb_tab_pro_top) (Linkedin profile Louisa Giannoudi)  
 Skype: calimero1330

Sex Female | Date of birth 15/11/1978 | Nationality Greek

JOB APPLIED FOR

**Research Fellow in projects/ Research assistant manager**

WORK EXPERIENCE

current – 1/2014

**Research on CO<sub>2</sub> parameters (laboratory and desk studies) (GLAYKI, MedSeA, Copernicus MED Insitu TAC)**  
**HCMR (Hellenic Centre for Marine Research) - Institute of Oceanography:** 46km Athens-Sounio, 19013 Anabyssos, Greece  
 - Participation in perturbation experiments with laboratory cultures.  
 - Water column measurements of CO<sub>2</sub> and alkalinity parameters.  
 - Using seacarb during experimental work for computation of pH.  
 - Ph measurements in perturbation experiments  
 - Analysis of seawater samples for CO<sub>2</sub> and alkalinity parameters from several cruises.

current – 1/2014

**Assistant Project Manager (PERSEUS, IRIS-SES, ACTIONMED, MEDREGION)**  
**HCMR (Hellenic Centre for Marine Research) - Institute of Oceanography:** 46km Athens-Sounio, 19013 Anabyssos, Greece  
 - Assisting in managing 2 European projects. One under the DG Environment and the other under the DG Research.  
 - Dealing with meetings, workshops, conferences. Keeping meeting minutes and making presentations whenever necessary.  
 - Editing of the projects deliverables and communicating with all partners.  
 - Working also on the projects' education outreach. Assisting with school visits at the institute and helping with the organisation of school visits.

12/2014 – 10/2006

**Recalled Researcher (Chemistry/Biotechnology)**  
**HCMR (Hellenic Centre for Marine Research) - Institute of Oceanography:** 46km Athens-Sounio, 19013 Anabyssos, Greece  
 - Update and creation of research protocols. Inform research database.  
 - Cell cultures and culture studies.  
 - Laboratory research in the framework of EU-projects under different research topics  
 - Involvement in project management of national and international research projects  
 - Exploitation and dissemination of results for scientific papers and governmental reports  
 - Presentation of research findings on scientific conferences as well as to the wider public  
 - Fund-raising activities for international projects, preparation of tenders and project proposals  
 Business or sector Governmental Research body under the auspice of the Ministry of Education, Lifelong Learning and Religious Affairs, Greece

03/2006 – 06/2005

**Research Fellow (Development of Molecular Imprinted Polymers on biosensors for Clinical Analysis)**  
 Cranfield Centre for Biosensors and Technology, **Cranfield University**, Silsoe, UK

- Research on plasma originated from pigs and humans
  - Development of trial protocols for the anaesthetic drug Propofol
  - Research on legal and ethical studies
  - Exploitation and dissemination of results
  - Organization, planning and participation on research meetings
  - Fund-raising activities for bilateral cooperation projects (GR & D), preparation of tenders and project proposals
- Business or sector** University of Cranfield, UK. Project in collaboration with Sphere Medical Ltd, Cambridge, UK.

10/2004 – 11/2001

**Part time Research Assistant (Development of a biosensor)**

Cranfield Centre for Biosensors and Technology, **Cranfield University**, Silsoe, UK

- Research on herbicides/pesticides
  - Development of trial protocols for several herbicides/pesticides
  - Research on several analytical chemistry techniques
  - Exploitation and dissemination of results
  - Organization, planning and participation on research meetings, conferences and workshops
  - Preparation of meetings minutes, technical forms and 6 months research updates
- Business or sector** University of Cranfield, UK.

EDUCATION AND TRAINING

2004 – 2001

**PhD (Doctor of Philosophy)**

PhD on biotechnology  
 PhD thesis title: "Development of disposable electrochemical sensors for detection of photosystem inhibiting herbicides"  
 - Testing of several protocols  
 - Development of a biosensor  
 - Laboratory research and attendance of conferences  
 Cranfield Centre for Biosensors and Technology, Cranfield University, Silsoe Campus, UK

PhD graduate with honours

2001 – 2000

**Master of Science. MSc in Oceanography**

Taught Master Course in Oceanography  
 Southampton Oceanography Centre, University of Southampton, UK

MSc graduate with honours

1997 - 2000

**Bachelor of Science. BSc in Chemical Oceanography**

Taught course  
 Department of Earth Sciences, Liverpool University, UK

Honours graduate.  
 Grade from D.O.A.T.A.P. (degree recognition body) 6.3

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

|         | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
|         | Listening     | Reading | Spoken interaction | Spoken production |         |
| English | C2            | C2      | C1                 | C1                | C2      |

Replace with name of language certificate. Enter level if known.

|  |    |    |    |    |    |
|--|----|----|----|----|----|
| French   | A2 | A2 | A2 | B1 | B1 |
| Replace with name of language certificate. Enter level if known. |    |    |    |    |    |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
 Common European Framework of Reference for Languages

- Communication skills**
- Team work: Worked in various types of teams from research to national swimming teams. For 4 years was a member of a national swimming and sailing team.
  - Mediating skills: Worked with students at workshops and conferences. Member at research conferences organizing committees.
  - Intercultural skills: Worked in a multidisciplinary research field and been involved with several nationalities.

- Organisational / managerial skills**
- Filing, meetings organizer, purchasing of stationary and chemical products, preparing presentations, organizing fieldtrips.
  - Member of the organizing committee of international and national symposiums and conferences.

- Job-related skills**
- Laboratory and field based research experience. Knowledge of several chemical instruments. Worked in the development of biosensors for medical and environmental application.

**Digital competence**

| SELF-ASSESSMENT        |                 |                  |                  |                  |
|------------------------|-----------------|------------------|------------------|------------------|
| Information processing | Communication   | Content creation | Safety           | Problem solving  |
| Independent User       | Proficient User | Basic User       | Independent User | Independent User |

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

Replace with your other computer skills. Specify in what context they were acquired. Example:

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software gained as an amateur photographer

- Computer skills**
- Certified with ECDL( European Computer Driving Licence for Windows XP). Competent with most Microsoft Office programmes. I am a heavy internet user (familiar with internet databases) and I have also worked in PC windows and MS-DOS environment as well as Macintosh (Apple Mac).

- Other skills**
- Certified as First Aider and employed by Cranfield University to provide First Aid Support in Silsoe campus until arrival of emergency services due to remoteness of campus.

- Driving licence**
- B Category

ADDITIONAL INFORMATION

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## Publications

- Krasakopoulou E., Souvermezoglou E., Giannoudi L., Goyet C (2017). Carbonate system parameters and anthropogenic CO<sub>2</sub> in the North Aegean Sea during October 2013. *Continental Shelf Research*, 149, 69-81.
- Karim K, Giannoudi L., Piletska E., Chianella I., Henry O.Y.F., Laitenberger P., Piletsky S.A., Cowen T (2015). Development of MIP sensor for monitoring propofol in clinical procedures. *Journal of the Chinese Advanced Materials Society*. Volume 3, Issue 3.
- Renzi M., et al (2014). Guidelines on spatial and temporal extent of monitoring water column and seabed habitats indicators based on their scales of natural variation. Technical Report. September 2014. IRIS-SES project.
- Zervoudaki S.\*, Frangoulis C., Giannoudi L., Krasakopoulou E. (2012). Effects of raised CO<sub>2</sub> and temperature on egg production, hatching and metabolic rates of a Mediterranean copepod species (*Acartia clausi*). *Mediterranean Marine Research*, 15(1), 74-83.
- Giannoudi L., Touloupakis E., Piletska E., Piletsky S.A. Amperometric Biosensor Setup Based on a Photosynthetic-Organic Matrix. (submitted)
- Giannoudi L., Varkitzi I., Petrou P.S., Pyrgaki C., Kakabakos S.E., Pagou K. A Biosensor for phytoplankton cultures. *Marine Biotechnology in Europe, Biotech Advances*. (in preparation)
- Giannoudi L., Piletska E., Piletsky S. (2006). Development of Biosensors for the Detection of Hydrogen Peroxide, book chapter in *The Use of Photosynthetic Proteins for Technological Applications: Biochips, Biosensors and Biodevices*, BioScience Publishers
- Touloupakis E., Giannoudi L., Piletsky S.A., Guzzella L., Pozzoni F. and Giardi M.T.G (2004). A multi-biosensor based on immobilized Photosystem II on screen-printed electrodes for the detection of herbicides in river water. *Biosensors and Bioelectronics*, volume 20, 1984-1992.
- Krejci J., Prasek J., Fucik L., Khatib S., Hejatkova E., Jakubka L., and Giannoudi L. (2004). Screen-printed sensors with graphite electrodes comparison of properties and physical method of sensitivity enhancement. *Microelectronics International, Formely Hybrid Circuits*, volume 21, number 3, 20-25.

## Presentations/Conferences

- 14 oral / poster conference presentations and 15 technical reports.
- Giannoudi L., VARKITZI I., PETROU P.S., PYRGAKI C., KAKABAKOS S. & K. PAGOU (2010). A Biosensor for Phytoplankton Cultures. 14th International Conference on Harmful Algae, Crete, Greece, 1
- Giannoudi L., VARKITZI I., PETROU P.S., PYRGAKI C., KAKABAKOS S. & K. PAGOU (2010). An Amperometric immunosensor tested on *Prorocentrum lima* cultures. European Science Foundation, Marine Biotechnology: Future Challenges, 20-25 June, Italy. Invited Oral Presentation.
- Giannoudi L., Varkitzi I., Petrou P., Pyrgaki C., Anthoula M., Paulidou A., Chatzianestis G., Kakabakos S., Pagou K. First Approach to an okadaic amperometric immunosensor: application to culture samples. Oral presentation during the 9th Symposium of Oceanography and Fisheries held at Patra, Greece, 13-16 May 2009.
- Giannoudi L., VARKITZI I., PETROU P.S., PYRGAKI C., KAKABAKOS S. & K. PAGOU (2008). First approach to an okadaic acid amperometric immunosensor: application to environmental samples. Poster presented at the 13th Conference on Harmful Algae, Hong Kong, 3-7 November.
- Giannoudi L., PETROU P.S., KAKABAKOS S.E., PAGOU K. (2008). A biosensor for rapid toxin analysis. Poster presented at the "Third International Workshop on Multianalyte Biosensing Devices", in the framework of the "34th International Conference on Micro and Nano Engineering 2008" 18-19/09/2008, Athens, Greece.
- Giannoudi L., VARKITZI I., PETROU P.S., PYRGAKI C., KAKABAKOS S. & K. PAGOU (2008). Detection of algal toxins with the aid of an amperometric immunosensor and its application to real samples. Poster presented during the World Congress on Biosensors, Organizers: University of Cranfield and Elsevier, 14-16 May 2008, Sanghai (China).
- Giannoudi L., VARKITZI I., PETROU P.S., PYRGAKI C., KAKABAKOS S. & K. PAGOU (2008). Towards a biosensor for the rapid screening of algal toxins. Poster presented during the 4th International Biotechnology Forum, held at Zappeion Megaron in Athens, Greece, February 2 – 3, 2008. (Excellency award winner).
- Giannoudi L., TOULOUPAKIS E., PILETSKA E., GUZZELLA L., GIARDI M.T. & PILETSKY S. (2005). "Detection of herbicides in environmental samples by applying the "Hill" reaction of photosynthesis on electrochemical techniques". Instrumental Methods of Analysis 2005 (IMA 05), 2-6 October 2005, Iraklion, Crete, Greece. Poster presentation.
- Giannoudi L. & PILETSKY S. (2005). "Screen printing on molecular imprinted membranes for electrochemical use". 2nd World Congress on Synthetic receptors. Synthetic Receptors 2005. 7-9 September 2005, Salzburg, Austria.
- Giannoudi L. & PILETSKY S. (2005). "Screen printing on molecular imprinted membranes for electrochemical use". 2nd World Congress on Synthetic receptors. Synthetic Receptors 2005. 7-9 September 2005, Salzburg, Austria.
- Giannoudi L., PILETSKA E. & PILETSKY S. (2004). "Amperometric detection of pesticides with the aid of several mediators based on Hill reaction". 55th Annual meeting of the International Society of Electrochemistry. September 2004, Thessaloniki, Greece. (poster).
- Giannoudi L. & PILETSKY S.. "Amperometric detection of herbicides with the aid of several mediators based on Hill reaction". Silsoe Research Conference, Silsoe, University of Cranfield, June 2004. Oral Presentation.
- Giannoudi L., PILETSKA E., & PILETSKY S.. "Electrochemical sensor for the detection of herbicides based on Hill reaction". The 8th World Congress on Biosensors. Biosensors 2004. May 2004, Granada, Spain. Poster Presentation.
- Giannoudi L., PILETSKY S., & PILETSKA E.. "New polymer/graphite electrodes for electrochemical measurements". 1st World Congress on Synthetic Receptors. Synthetic Receptors 2003, October 2003, Lisbon, Portugal. Poster Presentation.
- Giannoudi L., PILETSKA E., & PILETSKY S.. "Amperometric detection of Hydrogen Peroxide with a graphite/polymer composite electrode". 54<sup>th</sup> Annual meeting of the International Society of Electrochemistry, "The Role of Electrochemistry in the sustained development of modern societies", August/September 2003, Sao Pedro, Brazil. Oral Presentation.

- Projects**
- Research project "PERSEUS" – Policy-oriented marine environmental research in the southern European seas. FP7 project – DG Research.
  - Project "IRIS-SES", Integrated regional monitoring implementation strategy in the southern European seas. Project under DG Environment.
  - Research project on ocean acidification "MedSea". EU research project.
  - Research project in the framework of the program "ENTER-2004", which constitutes an action of the Operational Program for Competitiveness (EPAn) and is part-financed by the General Secretariat of Research and Technology (GSRT) and the European Social Fund (EU).
  - EU Research project (2006-2010) SESAME. Unluata cruises. 21th March 2008 – 5th April 2008. Monitoring of the Aegean sea.
  - EUROCEANS EU Research project (monitoring). Analysis of samples for pCO<sub>2</sub>.
  - EU Research project (2001-2004) BEEP. Framework Programme 5. Contract No QLK3-2001-01629. Program in the Area of Life Sciences. Environmental Research on Herbicides.
  - Scott Polar Research Institute (SPRI) Database for sea-surface ice analysis collected from a submarine

- Honours and awards**
- 2010 - Awarded a grant from the European Science Foundation (ESF) to attend the 1<sup>st</sup> conference on Marine Biotechnology.
  - 2008 – 'Best Poster' awarded in the area of green biotechnology at the 4th International Greek Biotechnology Forum (IGBF4) that was organized in Zappeio Megaro of Athens from the Urban Company of Biotechnology, Biosciences and Culture, BIONOVA.
  - 2006 – Awarded from the Royal Society, UK the prize for the development of MIP biosensor for detection of the anaesthetic drug Propofol.
  - 2002 - Awarded a grant from the Royal Society of Chemistry to attend the 54<sup>th</sup> Annual meeting of the International Society of Electrochemistry, "The Role of Electrochemistry in the sustained development of modern societies".
  - 2001- Awarded a studentship from Cranfield University, Silsoe, U.K. in order to study for a postgraduate degree.

**Memberships** Royal Society of Chemistry, UK (expired)

**References** Dr Kalliopi Pagou, [popi@ath.hcmr.gr](mailto:popi@ath.hcmr.gr)  
Hellenic Centre for Marine Research, Institute of Oceanography, 46,7 km Athens-Sounio Avenue, Anavissos

Professor Sergey Piletsky, [s.piletsky@cranfield.ac.uk](mailto:s.piletsky@cranfield.ac.uk)  
Cranfield Univeristy, Cranfield Health, Vincent Building, Cranfield Campus

## ANNEXES

- copies of degrees and qualifications;