




PERSONAL INFORMATION

**Ioannis Kostikas**

-  Athens (Greece)
-  [ikostikas@phys.uoa.gr](mailto:ikostikas@phys.uoa.gr)
-  <http://philastron.phys.uoa.gr/>

Sex Male | Date of birth 23/11/1990 | Nationality Greek

WORK EXPERIENCE

October 2013–December 2013

**Traineeship**

1st Model Experimental Secondary School, Athens (Greece)

EDUCATION AND TRAINING

2008–Present

**Undergraduate Student**

Faculty of Physics in National and Kapodistrian University of Athens (UoA), Athens (Greece)

2013–Present

**Associate at Department of Astrophysics, Astronomy and Mechanics. Department of Physics**

National and Kapodistrian University of Athens (UoA), Athens (Greece)

2013–Present

**Member of Education Technology Lab**

Faculty of Philosophy, Pedagogy and Psychology, National and Kapodistrian University of Athens (UoA),

2013–Present

**Member of the History and Philosophy of Astronomy and Physical Sciences Research Group**

Faculty of Physics, National and Kapodistrian University of Athens (UoA), Athens (Greece)

Researcher

Group's Website Administrator

PERSONAL SKILLS

Mother tongue(s)

Greek

Other language(s)

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

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
[Common European Framework of Reference for Languages](http://www.cerl.eu)

Organisational / managerial skills

Experience in organizing conferences and scientific workshops

Computer skills

Excellent use of computers (Word, Excel, Power Point, Internet)

Programming knowledge  
 -Logo (excellent)  
 -C, C ++ (good)  
 -Matlab (good)  
 Very good handling of Photoshop  
 Web Hosting

**Other skills**

- Exploiting new technologies in science education
- Constructing prototype educational scenarios in Physics
- Creating microworlds in Natural Sciences in Logo-based environment (E-Slate) and Scratch
- Using Web 2.0 tools for educational use
- \* Using Wiki
- \* Google Docs
- \* Create animated videos and including them in the educational process
- \* ToonDoo, Pixton (creating comics)
- Knowledge of special education
- Knowledge of educational and cognitive psychology

**Driving licence** A1, B

**ADDITIONAL INFORMATION**

**Publications in scientific journals (refereed)**

- "The perception of time by humans according to John Philoponus and its relation with the Theory of Special and General Relativity". Konstantinos Kalachanis, Efstratios Theodossiou, Evangelia Panou, Vassilios Manimanis, Ioannis Kostikas, International Journal of Humanities and Social Science Vol. 3 No. 20; December 2013
- "From the Unity of the Elements of Nature in Empedocles to a Unified Theory of Everything in Modern Physics" Panou, E., Kalachanis, K., Theodossiou, E., Kostikas, I., Manimanis. V.N. and Dimitrijević, M.S., journal Facta Universatis, Series: Philosophy, Sociology, Psychology and History, accepted September 2013
- "The Presocratic Scientific Revolution: The contribution of Milesian Philosophers in the study of cosmology" :Constantine Kalachanis, Ioannis Kostikas, Efstratios Theodossiou, *Celestia journal, Olympic Center for Philosophy and Education (in press, May 2013)*
- "From the unity of nature according Empedocles, to Grand Unified Theory in Modern Physics": Constantine Kalachanis, Evangelia Panou, Efstratios Theodossiou, Ioannis Kostikas Basil Manimanis, *Dia-Logos journal*, Philosophical Magazine, Papazisis, Athens (in press, March 2013).

**Presentations - Tasks**

Diploma Thesis on "Microworlds Design in logo based environment using the E-Slate platform and study of the design process"

"The Chronicle of Calendars", European Heritage Days 2013, Archaeological Museum of Piraeus, Sunday 29/09/2013

In the context of the Department of Physics courses were drafted the following tasks:

- Democritus. The Pentathlon Philosopher. Review of his Life and Work
- Roger Bacon-Niceforus Gregoras. Parallel Lives. The introducers of calendar reform

- Moon's Ionosphere. Methods of Measurement and explanation of the phenomenon
- Construction of educational scenarios in Engineering
- Educational Scenario in informal education on the subject: Introduction of basic principles of meteorology at the 2nd Class of Secondary School in the teaching of an interdisciplinary course on thermodynamics and chemistry of the atmosphere, in Physics and Chemistry

#### Participation in Conferences

"Contribution of Democritus on Philosophical and Scientific Thought", 2nd Philosophy and Cosmology Scientific Conference, 13-14 May 2013

- Constructionism 2012 - Volunteer
- 2nd Conference on Philosophy and Cosmology - Member of the Organizing Committee
- 1st International Conference on New Developments in Science and Technology Education (May 2014) - Local Organizing Committee

#### Conferences Attendance

- Funding opportunities for companies and individuals from the program Horizon 2020 (13-14/12/2013)
- XXI SEAC 2013 Conference, Société Européenne pour l'Astronomie dans la Culture 2013 (1-7 September 2013, Athens)
- HNPS2013, 22nd Symposium of the Hellenic Nuclear Physics Society (31 May & 01 June 2013)
- Integration and use of ICT in the Educational Process (10-12 May 2013, Athens)
- Childhood: Sociological, Cultural, Historical and Educational Dimensions (11-14 April 2013, Athens)
- Constructionism 2012 (21/25 August 2012, Metropolitan Hotel, Athens)
- 11th International Conference on Meteorology, Climatology and Atmospheric Physics (29 May-1 June 2012, Athens)
- Dyslexia in Higher Education (23/5/2012, Athens)
- Philosophy and Cosmology (7-8 March 2012, Athens)

#### Seminars

Summer School 2012 at National Scientific Centre "Demokritos" in Greece. Thematic Areas:

- Information Technologies and Communication Engineering
- New Technologies and Cultural Heritage

Seminars of Astrophysics at Gerostathopoulio University Observatory during the periods:

- March to June 2011
- October 2011-January 2012
- March to June 2012
- October 2012-January 2013
- March to June 2013

#### Participation in associations

American Geophysical Union [2012]  
Hellenic Physical Society

#### Citations

4th in Panhellenic Student Competition in Chemistry 2007