

# Orestis Panagopoulos

## Physicist

📅 Feb 1989

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🌐 [github.com/orestispanago](https://github.com/orestispanago)

🌐 [linkedin.com/in/orestispanago](https://linkedin.com/in/orestispanago)

🌐 [orestispanago.github.io](https://orestispanago.github.io)

## Experience

### Researcher

#### “SCoSCo” project

📅 2017 – present

📍 LAPUP, University of Patras, Greece

- Coordination and overview of the Greek-German Project “Solar Collectors with Static Concentrators for solar thermal applications at intermediate and medium temperatures” including 5 partners, and 8 Work Packages, designing an innovative solar thermal collector.
- Design of solar concentrators on AutoCAD®, FreeCAD.
- Optical modelling of concentrators using SolTrace, Tonatiuh, Solstice and COMSOL Multiphysics®
- Thermal modelling of system and components using CARNOT toolbox on MATLAB Simulink®.
- Planning of experimental campaign, design and implementation of experimental setup and data acquisition system.

### Researcher

#### Patras Urban Heat Island

📅 2017 – 2019

📍 LAPUP, University of Patras, Greece

- Timeseries and geospatial data analysis in Python, QGIS.
- Design of remote data acquisition system based on the LoRa protocol, implementation with low-cost devices.

## Education

### B.Sc. in Physics

#### Physics Department

📅 2014

📍 University of Patras, Greece

### Master’s Degree

#### Department of Electrical and Computer Engineering

📅 2016

📍 University of Patras, Greece

Title: Distributed Green Electric Power and the Advanced Network Infrastructure for its Management and Economy

### PhD candidate

#### LapUp

📅 2017 - Present

📍 University of Patras, Greece

Subject: Concentrating solar thermal systems, numerical simulations and experimental study

### Coding Bootcamp, Java

#### Alliance For Digital Employability (AFDEmp, [www.afdemp.org](http://www.afdemp.org))

📅 March-June 2020

📍 Athens, Greece

500 hours of intensive training in Software Development, organized by PeopleCert ([www.peoplecert.org](http://www.peoplecert.org)) and HEPIS ([www.hepis.gr](http://www.hepis.gr)). Developed under the academic supervision of the Athens University of Business and Economics (AUEB).

## Profile

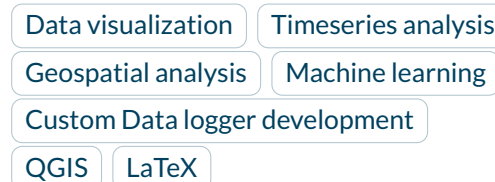
I am a Physicist with more than 2 years of experience (2017 - today) in the development and management of research projects.

I have cooperated with companies namely Calpak (GR), Hilger and Heliokon (DE). My main area of experience lies in the management of multiple projects/tasks, in physics modelling software and data analysis. My intention for my next job is a role that extends my skills and offers high motivation and challenging goals.

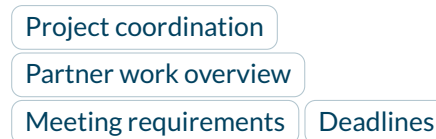
## Development skills



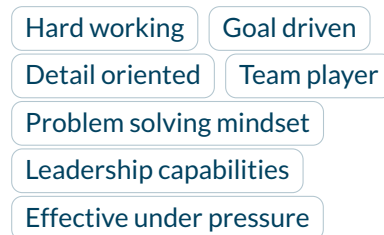
## Data science skills



## Management



## Soft & other skills



## Certificates

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PeopleCert Software Developer Skills

Java - Foundation Level

📅 May 2020

PeopleCert Software Developer Skills

Java - Advanced Level

📅 June 2020

## Publications

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### 📄 Journal Articles

- Barone, G., A. Buonomano, C. Forzano, A. Palombo, and O. Panagopoulos (2019a). "Experimentation, modelling and applications of a novel low-cost air-based photovoltaic thermal collector prototype". In: *Energy Conversion and Management* 195. ISSN: 01968904. DOI: [10.1016/j.enconman.2019.04.082](https://doi.org/10.1016/j.enconman.2019.04.082).
- – (2019b). "Photovoltaic thermal collectors: Experimental analysis and simulation model of an innovative low-cost water-based prototype". In: *Energy* 179. ISSN: 03605442. DOI: [10.1016/j.energy.2019.04.140](https://doi.org/10.1016/j.energy.2019.04.140).

### 👥 Conference Proceedings

- J., Goettsche, Alexopoulos S., Dümmmler A., Argiriou A.A., Panagopoulos O. Kosmopoulos G., and Dokouzis A (2020). "Solar Process Heat Collector with mirror-array concentration system". In: *EUROSUN 2020 - 13th International Conference on Solar Energy for Buildings & Industry*. Athens, Greece.
- A., Argiriou A. and Panagopoulos O. (2018). "Urban heat island effect in Patras, Greece. Preliminary results". In: *COMECAP 2018 - 14th International Conference on Meteorology, Climatology and Atmospheric Physics*. Alexandroupolis, Greece.
- P., Baggio, Barone G., Buonomano A., Forzano C., Palombo A., and Panagopoulos O. (2018). "Low-cost water-based photovoltaic thermal collectors: experimental investigation and simulation model". In: *Proceedings of SDEWES 2018 - 13th Conference on Sustainable Development of Energy, Water and Environment*. Palermo, Italy.

## Most Proud of

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[airsense.tk](https://airsense.tk)

Air pollution IoT sensors eshop and measurements hosting service.  
Bootcamp team project

## Languages

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Greek (native) ●●●●●●

English ●●●●●●

French ●●●●●●

## IT skills

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Linux

MS Windows™

MS Office™

H/W management

Raspberry Pi

## Interests

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Martial arts

Outdoor activities

Hunting

Guitar playing