



**THE CYPRUS
INSTITUTE**

RESEARCH • TECHNOLOGY • INNOVATION

Curriculum Vitae

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Education:

2012 – 2016 (January) – PhD in Environmental and Atmospheric Sciences Department (EEWRC),
The Cyprus Institute, Cyprus.

2008 - 2010 – MSc in Environmental Physics, Physics Department, National and Kapodistrian
University of Athens, Greece

2004 - 2008 – BSc in Physics, Physics Department, National and Kapodistrian University of Athens,
Greece.

Professional Experience:

01/03/2018 – to date: Head of the PROTEAS Facility Operations, The Cyprus Institute

01/03/2016 – 31/12/2017: Post Doctoral Fellow, The Cyprus Institute

15/11/2010 – 31/03/2012: Research Assistant, The Cyprus Institute

Research Experience:

Project participation:

2017 – 2021: INSHIP: Integrating National Research Agendas on Solar Heat for Industrial Processes
(H2020-LCE-2016-2017, Topic: LCE-33-2016)

2016 – 2018: NESTER: Networking for Excellence in Solar Thermal Energy Research
(Horizon 2020 TWINNING H2020-TWINN-2015)

2015 – 2020: CySTEM: Cyprus Solar Thermal Energy for the Mediterranean, Horizon 2020 ERA Chairs
(H2020-WIDESPREAD-2014-2)

2015 – 2019: SMART GEMS: Smart Grids Energy management Staff
(H2020-MSCA-RISE-2014 Topic: MSCA-RISE-2014; Action: MSCA-RISE)

2014 – 2018: STAGE-STE: The Scientific and Technological Alliance for Guaranteeing the European Excellence in Concentrating Solar Thermal Energy
(Seventh Framework Programme for Research and Technological Development FP7)

2011 - 2014: STEP - EW: Solar Thermal Production of Electricity and Water
(INTERREG Greece-Cyprus 2007-2013)

Teaching Experience:

Fall 2008, 2009: Postgraduate Associate “Mechanics, and Thermodynamics Laboratory”,
National and Kapodistrian University of Athens

Spring 2009, 2010: Postgraduate Associate “Meteorology Laboratory”,
National and Kapodistrian University of Athens

Outreach Project Coordination:

2013, 2014, 2015, 2016, 2017, 2018: Member of the coordinating team of the annual Solar Car Challenge (The Cyprus Institute)

Honours and Achievements:

2015: Cyprus bi-communal co-operation award (Stelios philanthropic foundation)

2004 – 2008: Scholarship from the Cyprus State Scholarship Foundation (IKY)

Computer skills:

Microsoft Office, Powerpoint
Energy Planning and simulation: TRNSYS,
COMSOL Multiphysics, Matlab
Data monitoring and analysis: LabVIEW design platform
(Laboratory Virtual Instrumentation Engineering Workbench)

Training Attended:

2018 – Executive Training Programme on Equality in Employment, **Nicosia**

2013 – Workshop on Advanced Scientific Visualization, **Nicosia**

2012 – Cyprus Advanced HPC Workshop Winter 2012, **Nicosia**

2011 – Cyl/ TAU Research Workshop on “Applications of Earth Observations and Modelling”, **Nicosia**

2011 – LinkSCEEM -2 Climate Modelling Thematic Workshop, **Nicosia**

2010 - Thermal comfort and energy saving in building sector, **Athens**

2009 – Energy Saving and use of Renewable Energy Sources in the building Sector, **Athens**

Presentations and Outreach:

- 2018** – 6th International Conference on RESEE: Concentrated Solar Power for the Co-generation of Electricity and Desalinated Water: The PROTEAS Experiments, *Nicosia*
- 2018** – NESTER Workshop on CSP + Desalination: The PROTEAS Facility: Cogeneration of electricity and Desalination of Sea Water, *Nicosia*
- 2018** – CSP4Climate 2018: CSP - DSW concept and potential, *Nicosia*
- 2018** – American University of Beirut collaboration visit, *Beirut*
- 2018** – NESTER secondment PSA - CIEMAT, *Almeria, Part II*
- 2018** – NESTER secondment PSA - CIEMAT, *Almeria, Part I*
- 2017** – STAGE – STE: CSP + Desalination: Small scale Multiple Effect Distillation units, University of Seville, *Seville*
- 2017** – NESTER workshop CNRS – PROMES, *Odeillo*
- 2017** – NESTER workshop ENEA: General overview of the instrumentation and the control of the PROTEAS facility, *Rome*
- 2016** – NESTER school: CSP + D: The case study of PROTEAS facility, The Cyprus Institute, *Nicosia*
- 2016** – STS-MED: STS – MED Inauguration ceremony of SEKEM Fresnel plant, *Egypt*
- 2016** – RES2016: Characterization and dynamic performance of a small scale four effect distillation unit coupled to a pilot CSP plant, *Nicosia*
- 2016** – TWINNING: Project coordinators meeting, *Brussels*
- 2015** – EDS 2015: A transient model for forward and parallel feed MED, *Palermo*
- 2014** - STS – MED Training Programme : CSP and desalinated water _Thermal methods, *Nicosia*
- 2014** - EDS 2014: Experimental evaluation of a multiple effect distillation unit in low seawater flow, *Limassol*
- 2014** – AdaptToClimate: Evaluation of a solar powered distillation unit as mitigation to water scarcity and climate, *Nicosia*
- 2013** – STS-MED Regional Event: Desalination: Grey water system using Multiple Effect Distillation Technique, *Nicosia*
- 2013** – POEM 2013: Thermal desalination performance analysis, *Nicosia*
- 2013** – RES 2013: Thermal desalination performance analysis, *Nicosia*
- 2012** – POEM 2012: Evaluation of a multi-effect distillation unit in low seawater flow conditions, *Limassol*
- 2012** – HEAT: Heat island mitigation technique, *Larnaca*

Posters :

- 2017** – SolarPACES 2017
- 2015** – EWAAC 2015
- 2012** – EWAAC 2012

Publications:

Peer – Reviewed Journals:

Published:

1. M.C. Georgiou, A.M. Bonanos & J.G. Georgiadis (2016) Evaluation of a solar powered distillation unit as a mitigation to water scarcity and climate change in Cyprus, *Desalination and Water Treatment*, 57:5, 2325-2335, DOI: [10.1080/19443994.2014.989637](https://doi.org/10.1080/19443994.2014.989637)
2. M.C. Georgiou, A.M. Bonanos & J.G. Georgiadis (2015) Experimental evaluation of a multiple-effect distillation unit in low seawater flow conditions, *Desalination and Water Treatment*, 55:12, 3267-3276, DOI: [10.1080/19443994.2014.940638](https://doi.org/10.1080/19443994.2014.940638)
3. Marios C. Georgiou & Aristides M. Bonanos (2016) A transient model for forward and parallel feed MED, *Desalination and Water Treatment*, 57:48-49, 23119-23131, DOI: [10.1080/19443994.2016.1180480](https://doi.org/10.1080/19443994.2016.1180480)
4. Marios C. Georgiou, Aristides M. Bonanos, and John G. Georgiadis, "Evaluation of a Multiple-Effect Distillation Unit under Partial Load Operating Conditions," *Conference Papers in Energy*, vol. 2013, Article ID 482743, 9 pages, 2013. <https://doi.org/10.1155/2013/482743>.

5. C. N. Papanicolas, A. M. Bonanos, M. C. Georgiou, E. Guillen, N. Jarraud, C. Marakkos, A. Montenon, E. Stiliaris, E. Tsioli, G. Tzamtzis, and E. V. Votyakov, AIP Conference Proceedings 1734, 100008 (2016); doi: <https://doi.org/10.1063/1.4949196>.
6. Evgeny V. Votyakov, Marios C. Georgiou, Elena Guillen, Efstathios Stiliaris, and Costas N. Papanicolas, Experimental methodology to calculate thermal losses of a molten salt cavity receiver AIP Conference Proceedings **2033**, 040041 (2018); <https://doi.org/10.1063/1.5067077>
7. Konstantinos G. Stokos, Efstathios Stiliaris, Aristides M. Bonanos, Marios C. Georgiou, Elena Guillen, Alaric Montenon, and Costas N. Papanicolas The control system at PROTEAS, AIP Conference Proceedings 2033, 210019 (2018); <https://doi.org/10.1063/1.5067221>
8. Aristides M. Bonanos, Marios C. Georgiou, Elena Guillen, and Costas N. Papanicolas, CSP+D: The case study at the PROTEAS facility, AIP Conference Proceedings **1850**, 170001 (2017); <https://doi.org/10.1063/1.4984564>

Refereed:

1. M.C. Georgiou, A.M. Bonanos, J.G. Georgiadis, Evaluation of a multiple-effect distillation unit under partial load operating conditions, in Hindawi Publishing Corporation Conference Papers in Energy, Cairo, 2013.