



**THE CYPRUS  
INSTITUTE**

RESEARCH • TECHNOLOGY • INNOVATION

## Curriculum Vitae

### Marios C Georgiou

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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:**

**01/01/2020 – to date:** Manager of the PROTEAS Facility Operations, The Cyprus Institute

**01/01/2018 –31/12/2019:** 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:**

**European Project participation:**

**2024- 2028: BLAZETEC: BREAKTHROUGHS IN THERMAL BATTERIES THROUGH ZERO-EMISSION  
HIGHTEMPERATURE STATIC THERMAL-TO-ELECTRIC CONVERTERS: ( HORIZON-CL5-2023-D3-03-01)**

**Role: CYI's Principal Investigator (PI),**

**2024- 2028: SOLARIZE: Bringing EU-SOLARIS ERIC to its Zenith: ( HORIZON-INFRA-2023-DEV-01-03 )**  
**Role: CYI's Principal Investigator (PI), WP4 Leader**

**2024- 2029: RISEnergy: Research Infrastructure Services for Renewable Energy , ( HORIZON-INFRA-2023-SERV-01-01)**

**Role: CYI's Principal Investigator (PI), Access Manager, providing services to Transnational Users under WP3**

**2022- 2026: WEFE4MED: Towards a Mediterranean WEFE Nexus Community of Practice, PRIMA Coordination and Support Action (CSA)**

**Role: CYI's Co- Principal Investigator (Co – PI), Co – Coordinator of the Project**

**2021 – 2025: StoRIES: Solar Facilities for the European Research Area ( H2020) (H2020-LC-GD-9-1-2020)**

**–Role: CYI's Principal Investigator (PI), Access Manager, providing services to Transnational Users under WP3**

**2019 – 2023: SFERAIII: Solar Facilities for the European Research Area (H2020-INFRAIA-2018-2020)**

**Role: CYI's Principal Investigator (PI), WP7 Leader, Task 6.4 Leader and Access Manager providing services to Transnational Users under WP5**

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

**Role: Task Leader, 5.2.3, 5.4.1**

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

**Role: Participation**

**2015 – 2019: SMART GEMS: Smart Grids Energy management Staff**

*(H2020-MSCA-RISE-2014 Topic: MSCA-RISE-2014; Action: MSCA-RISE)*

**Role: Participation**

**2016 – 2018: NESTER: Networking for Excellence in Solar Thermal Energy Research**

*(Horizon 2020 TWINNING H2020-TWINN-2015)*

**Role: Participation**

**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)*

**Role: Participation**

**2011 - 2014: STEP - EW: Solar Thermal Production of Electricity and Water**

*(INTERREG Greece-Cyprus 2007-2013)*

**Role: Participation**

**Teaching / Mentoring / Advisory Experience:**

**Summer Internships:**

2024 - Supervising undergraduate student from University of Rochester,

2024 - Supervising undergraduate student from FH Münster University of Applied Sciences

2023 - Supervising undergraduate student from Northumbria University

2023 – Supervising undergraduate student from University of Nottingham

2022 – Supervising undergraduate student from University of Glasgow

2021 – Supervising undergraduate student from American University of Beirut  
2021 – Supervising post-graduate student from program from Politecnico di Torino  
2021 – Supervising undergraduate student from National Technical University of Athens  
2021 – Supervising undergraduate student from National Polytechnic Institute of Toulouse).  
2020 – Supervising undergraduate student from University of Cyprus  
2019 – Supervising undergraduate student from American University of Beirut  
2018 – Supervising undergraduate student from American University of Beirut

**Year round Internships:**

2022-2023 – Co- supervising undergraduate student from Northumbria University

**Mentoring / Advisory Experience**

**2019** – External mentoring of a post-graduate student for his Master thesis for the Master of Science in Sustainable Energy Futures and for the Diploma of Imperial College

**2021** – External mentoring of a post-graduate student for his Master thesis in Electrician Engineering Thesis from Frederick University

**2022** – External mentoring of a post-graduate student for her Master thesis for the Master in Mechanical Engineering and Materials Science from Cyprus University of Technology.

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

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

**Outreach Project Coordination:**

**2019:** Science fair

**2013, 2014, 2015, 2016, 2017, 2018, 2019:** Member of the coordinating team of the annual Solar Car Challenge (The Cyprus Institute)

**Honours and Achievements:**

**2019:** Cyl Innovation Awards

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

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

**Professional Service and Memberships:**

Representative of CYI and Cyprus in EU-SOLARIS ERIC

Member of the Steering Committee of CSP-JP

Member of European Desalination Society

Accounting Officer of International Solar Energy Society Cyprus

Member of Cyprus Hydrogen Association

**Computer skills:**

Microsoft Office, Powerpoint

Energy Planning and simulation: TRNSYS

Matlab

Data monitoring and analysis: LabVIEW design platform  
(Laboratory Virtual Instrumentation Engineering Workbench)

**Training Attended:**

**2019** – Strategic Leadership Competencies, *Nicosia*

**2019** – NX Software Training, *Nicosia*

- 2019** – Introduction to Labview, **Nicosia**
- 2018** – Developing Leadership Competencies, **Nicosia**
- 2018** – Executive Training Programme on Equality in Employment, **Nicosia**
- 2013** – Workshop on Advanced Scientific Visualization, **Nicosia**
- 2012** – Cyprus Advanced HPC Workshop Winter, **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:**

- 2024** – RISEnergy KoM - Brussels
- 2023** – Sfera III and SolarPACES Task Workshop – Evora
- 2023** – WEFE4MED – Water Energy Food Nexus Workshop - Barcelona
- 2023** – Sfera III – Management Board Meeting, Madrid
- 2022** – CSP-JP General Assembly – Steering Committee meeting, Almeria
- 2022** – Sfera III – Management Board Meeting, Freiburg
- 2022** – Sfera III – Summer School - 3rd SFERA-III / 16th SOLLAB Doctoral Colloquium and Summer School, ETH Zürich.
- 2022** – CSP-JP General Assembly – Steering Committee meeting, Almeria,
- 2019** – SolarPACES Conference 2019 - Operational Experience of Hot Air Preheating at the PROTEAS Facility, Daegu
- 2019** – i3 Workshop Training on Entrepreneurship, – Energy - Renewable Energy and Business Opportunities, Larnaca
- 2019** – SFERAIII KoM – Facilities and services offered at the Cyprus Institute, Almeria
- 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. 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>.
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. 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)
4. 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)
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. 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>
7. M.C. Georgiou and A. M. Bonanos, "Characterization and dynamic performance of a small scale four effect distillation unit potentially coupled to a CSP plant", in *Proceedings of Renewable Energy Sources and Energy Efficiency, RESEE 2016*, May 2016.
8. 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>
9. 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>
10. K.G. Stokos, M. C. Georgiou, C. Roussos, E. Stiliaris, C. N. Papanicolas, "Experimental Methodology for the Heat Losses Estimation in TES tanks", in *AIP Conference proceedings, SolarPACES 2018, Morocco, October 2018*, vol. 2126, p.200030, <https://doi.org/10.1063/1.5117745>
11. D. R. Corbett, M. Blanco, A.M. Bonanos, M.C. Georgiou, C.N. Papanicolas, C. Roussos, E. Stiliaris, K. Stokos and E. Votyakov, "Object Oriented Modelling of the CSP-DSW Facility", in *AIP Conference proceedings, SolarPACES 2018, Morocco, October 2018*, vol. 2126, p.030016, <https://doi.org/10.1063/1.5117528>
12. K. G. Stokos, E. Stiliaris, M.C. Georgiou, C.C. Roussos and C.N. Papanicolas, "Architecture and Implementation of the Control System at PROTEAS", submitted in *RESEE 2018*, Nicosia, Cyprus, November 2018.
13. A. M. Bonanos, M. C. Georgiou, K.G.Stokos, C.N.Papanicolas, Engineering aspects and thermal performance of molten salt transfer lines in solar power applications, *Applied Thermal Engineering*, (2019) <https://doi.org/10.1016/j.applthermaleng.2019.03.091>
14. Marios C. Georgiou, Aristides M. Bonanos, Konstantinos G. Stokos, Constantinos C. Roussos, Efstathios G. Stiliaris and Costas N. Papanicolas, Operational Experience Of Hot Air

- Preheating At The PROTEAS Facility, AIP Conference Proceedings 2033, 030016 (2020), [10.1063/5.0029953](https://doi.org/10.1063/5.0029953)
15. EU-SOLARIS: The European Research Infrastructure Consortium for CSP Technologies, DOI: [10.52825/solarpaces.v1i.624](https://doi.org/10.52825/solarpaces.v1i.624), December 2023, [SolarPACES Conference Proceedings](#) 1
  16. Aiming Strategy for a Circular Aperture Receiver: Experimental Validation at PROTEAS, DOI: [10.52825/solarpaces.v1i.734](https://doi.org/10.52825/solarpaces.v1i.734), January 2024, [SolarPACES Conference Proceedings](#) 1

**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.