

Curriculum Vitae

Personal Information

Name: **Maria**
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Dr. Maria Birba is a Research Associate and member of the High frEquencies, metamateRials and nONlinear waves LABoratory (HERON LAB) of the Department of Physics / University of Thessaly. Her research interests include the study of the ionospheric plasma.

Studies

PhD in Atmospheric Physics, University of Patras

2002 **Phd thesis:** Estimation of the deposition rate of thermal energy from HF radiowaves to ionospheric plasma during experiments of ionosphere's artificial modification, and interpretation of some of the consequent physical phenomena.

Supervisor: Mantas George

Degree in Physics

1992 Department of Physics, School of Natural Sciences, University of Patras,
Grade: 8.43/10.

Senior thesis

Artificial modification of Weather, and Cloud Seeding.

Research experience

20-1-2021-present Postdoctoral Researcher of the Department of Physics, University of Thessaly

11/10/1992-31/08/1993 Participation in the research program ΠΕΝΕΔ89 "Model of structure and dynamic interaction between ionosphere and plasmosphere"

Teaching experience

Higher education

school years 2004-2006 Scientific Associate of the Technological Educational Institute of Ionian Islands, Department of Ecology and Environment (Zakynthos).
Teaching: "Meteorology-Climatology: Theory and Laboratory"

school year 2003-2004 Scientific Associate of the Technological Educational Institute of Patras, Department of Informatics and Media (Pyrgos).
Teaching: «Maths – part I»

school years 1992-1995 Special Postgraduate Scholar (EMY) of University of Patras
Department of Physics, University of Patras
Teaching: «General principles of Physics - part II»

Work experience

- 02/09/2003 – today** Permanent teacher at Public Secondary Education.
Position: 1st Senior High School of Pyrgos Elias.
Present position: Headmistress of the Music School of Elias Prefecture.
- 1994 – 2003** Teacher of Physics in a Secondary private tutoring.

Indicative list of Articles

International Journals

1. "*Studying climate inside the high school classroom*", for publication on the Journal of Modern Education Review, JMER, (by Academic Star Publishing Company, New York, NY, USA).
2. "*Wind and rain: meteorology in the classroom*", Science in School, Winter 2016/issue 38, p. 36-41, (ISSN: Print version: 1818-0353, Online version: 1818-0361).

Greek Journals

1. "*ICT in Science lessons of Junior High School, during the online education*", for publication on the e-Journal "Learning with ICT" of the Greek Union for the utilization of ICT in Education (www.e-diktyo.eu) in cooperation with the Teachers' Panhellenic Union "Michalis Dertouzos" and the Greek department of eTwinning.
2. "*Utilization of both ICT and meteorological data for the comprehension of the behavior of the variables of the gas law in the atmosphere*", Conference Proceedings of the Panhellenic Conference "Educational approaches and experimental teaching in Science" organized by the Department of Educational Sciences for Elementary School and the Department of Physics of the University of Thessaloniki, and The Panhellenic Union of the Laboratory Centers of Natural Sciences (PANEKFE), pg. 67-75, (ISBN: 978-960-93-8075-1), Thessaloniki, 16-17/4/2016.
3. "*Estimation of the ohmic heating rate of the ionosphere by high-power radiowaves*", Conference Proceedings of the 2nd Panhellenic Conference of Meteorology-Climatology and Atmospheric Physics, Zitis Publications, pg. 253-260, Thessaloniki 29-30/9/1994.

School programs and competitions

2003-present

Coordinator of (31) school programs, both European (Comenius, Erasmus, ESA, CERN) and National ones. Coordinator of National and International award-winning competitions as well.

Foreign Languages

English (C2), Italian (B2).