



CURRICULUM VITAE

Dr. Giorgos P. Veldes

Assistant Professor

School of Science-Department of Physics

University of Thessaly

Head of “**H**igh fr**E**quencies, **m**etamate**R**ials and **n**ONlinear waves **LAB**oratory, **HERON LAB**”, <https://heronlab.phys.uth.gr/>

1. Personal Data

Name Giorgos
Surname Veldes
Father's Name Petros
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Year and place of birth 01/01/1970, Pirgos Ilias
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2. Education

Department of Physics, National and Kapodistrian University of Athens.
2015 PhD degree with Thesis: “Localized waves in nonlinear metamaterials”
Advisor: Professor D.J. Frantzeskakis
1998 **Department of Physics and Informatics, National and Kapodistrian University of Athens.**
Master (M.Sc.) in Electronic and Telecommunications Engineering
1995 **Department of Physics, University of Athens.**
BSc. in Physics

3. Career - Employment

Academic Sector

September 2019-present Assistant Professor, Department of Physics, University of Thessaly
February 2019-September 2019 Assistant Professor, General Department, University of Thessaly
October 2017-January 2019 Assistant Professor, Department of Electronics Engineering, Technological Educational Institute of Sterea Ellada
June 2010-October 2017 Lecturer (permanent), Department of Electronics Engineering, Technological Educational Institute of Sterea Ellada
September 2008-June 2010 Lecturer (non-tenured), Department of Electronics Technological Educational Institute of Lamia

4. Research experience

Area of expertise: Microwave and High Frequency Communications with emphasis in nonlinear waves.
My interests include: metamaterials, nonlinear waves, plasma physics, radio astronomy technology, deep space communications.

a. Projects

- 08/2106-09/08/2019** Researcher in the project **NPRP9-326-1-067 «Split-ring resonator based nonlinear metamaterials: from few to many, theory and experiments»** which was evaluated as an excellent research project and funded (765.000 \$) by Qatar National Research Fund (QNRF)
- 12/2017-today** Co-PI of the project of the first **Hellenic radio telescope THERMOpYlae**. The first radio telescope in Greece and at the southernmost end of Europe is currently being created as part of a research collaboration involving University of Thessaly (PI Dr. Giorgos Veldes) and Hellenic Open University (PI Dr. Nectaria Gizani).
- 7/2022-11/2025** External collaborator in the project **CIRA-2021-064 με τίτλο «Rogue Waves and Extreme Events in Plasmas and in Space Science »** which will be funded (580.000 \$) by KU Internal Funding (scheme = CIRA = competitive internal research award)
- 9/2022-today** Researcher in the **ARTEMIS-JLS Solar Radio Spectrograph**

b. Citations of published work

h-index= 6. Total of 185 (or 146) citations to-date (within parenthesis, excluding self-citations); data from *Scopus*, alternatively: h-index: 6; 218 citations, data from *Google Scholar*; Eight (8) papers in refereed journals and one (1) proceedings paper.

<https://scholar.google.gr/citations?user=43lvBeQAAAAJ&hl=el>

c. Highlights from my research & indicators of esteem

The article[**J-3**] (ref. Publication List below) *by G.P. Veldes et al* (Journal of Optics, 2013)

-has been selected by the journal Editors to be included in the “Highlights of 2013” collection (Editorial certificate awarded) (<http://iopscience.iop.org/2040-8986/page/Highlights-of-2013>);

-has been ranked among the top 10 most-cited original research papers for 2015 JOPT research excellence award (<http://iopscience.iop.org/article/10.1088/2040-8978/17/10/100201>).

5. Selected publications

- [**J-5**] Yannan Shen, P. G. Kevrekidis, G. P. Veldes, D. J. Frantzeskakis, D. DiMarzio, X. Lan, and V. Radisic, *From solitons to rogue waves in nonlinear left-handed metamaterials*, Phys. Rev. E **95**, 032223 (2017).
- [**J-4**] G.P. Veldes, J. Cuevas, P.G. Kevrekidis, & D.J. Frantzeskakis, *Coupled backward- and forward-propagating solitons in a composite right- and left-handed transmission line*, Phys. Rev. E **88**, 013203 (2013).
- [**J-3**] G. P. Veldes, J. Borhanian, M. McKerr, V. Saxena, D. J. Frantzeskakis, and I. Kourakis, *Electromagnetic rogue waves in beam-plasma interactions*, J. Opt. **15**, 064003 (2013).
- [**J-2**] G. P. Veldes, J. Cuevas, P. G. Kevrekidis, and D. J. Frantzeskakis, *Quasidiscrete microwave solitons in a split-ring-resonator-based left-handed coplanar waveguide*, Phys. Rev. E **83**, 046608 (2011).
- [**J-1**] L. Q. English, S. G. Wheeler, Y. Shen, G. P. Veldes, N. Whitaker, P. G. Kevrekidis, and D. J. Frantzeskakis, *Backward-wave propagation and discrete solitons in a left-handed electrical lattice*, Phys. Lett. A **375**, 1242 (2011).

6. Major Collaborations

- Prof. D.J. Frantzeskakis Department. of Physics, National and Kapodistrian University of Athens, Greece
- Prof. P.G. Kevrekidis, Department of Mathematics and Statistics, University of Massachusetts, Amherst, Massachusetts, USA
- Dr. I. Kourakis, Khalifa University of Science and Technology, Department of Mathematics, Abu Dhabi, UAE
- Dr N. Gizani, Assistant Professor, School of Science and Technology, Hellenic Open University