



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**”, <http://heronlab.phys.uth.gr/>

1. Personal Data

Name	Giorgos
Surname	Veldes
Father's Name	Petros
Researcher unique identifier	http://orcid.org/0000-0002-4899-0563
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” <i>Advisor:</i> 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
2010	School of Science and Technology, Hellenic Open University. Postgraduate Courses in Advanced Studies of 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 Lecturer (permanent), Department of Electronics Engineering, Technological Educational Institute of Sterea Ellada
June 2010-October 2017	Lecturer (non-tenured), Department of Electronics Technological Educational Institute of Lamia
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. Research groups

June 2016-present:	Researcher Associate of the Department of Physics, University of Athens.
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March 2009-present:

Nonlinear Waves Group: Research of the Nonlinear Waves Group focuses on nonlinear waves and solitons with applications in various physical contexts. These include atomic Bose-Einstein condensates (BECs), nonlinear optics (optical fibers, waveguides, waveguide arrays, photonic lattices), electromagnetics (nonlinear waves in metamaterials, complex media, plasmas), and others.

b. Projects

27/12/2017-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). Jumping JIVE leaders (Pablo de Vicente, Leonid Gurvitz) were visited the Hellenic antenna and were satisfied by the excellent status of the antenna. Full support of EVN - VLBI is offered to speed up the Hellenic antenna linking to VLBI.

c. Citations of published work

h-index = 6. Total of 161 (or 125) citations to-date (within parenthesis, excluding self-citations); data from *Scopus*, alternatively: h-index: 6; 192 citations, data from *Google Scholar*; Seven (7) papers in refereed journals and one (1) proceedings paper.

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

d. 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>).

e. Credits

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|---|---|
| Regular reviewer (referee) for international journals | ❖ European Physical Journal B (EPJB) |
| | ❖ European Physical Journal Plus (EPJP) |
| | ❖ Communications in Nonlinear Science and Numerical Simulation (Elsevier) |
| | ❖ Journal of the Optical Society of America B |
| | ❖ Advanced Electromagnetics Journal |
| | ❖ Computer Applications in Engineering Education (Wiley Online Library) |
| | ❖ Journal of the Franklin Institute |

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