



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **LOGOFĂTU, Petre Cătălin**
Address(es) INFLPR, Lasers, str. Atomiştilor nr 409, Măgurele, jud. Ilfov, 077125, CP MG-36, ROMANIA
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E-mail logofatu@gmail.com
Nationality Romanian
Date of birth 11.01.1968
Gender Male

Desired employment / Occupational field

Senior Scientific Researcher

Work experience

Dates November 1992 – August 1996 and December 2003 onwards
Occupation or position held ACS, CS, CSIII, CSII, CSI
Main activities and responsibilities Scientific research
Name and address of employer INFLPR, Lasers, str. Atomiştilor nr. 409, Măgurele, jud. Ilfov, 077125, CP MG-36, ROMANIA
Type of business or sector Research and development
Dates August 1996 – October 2003
Occupation or position held Teaching assistant, research assistant
Main activities and responsibilities Scientific research
Name and address of employer University of New Mexico, Centre for High Technology Materials, Albuquerque, NM, USA
Type of business or sector University

Education and training

Dates August 1996 – July 2000
Title of qualification awarded PhD in Optical Sciences
Principal subjects/occupational skills covered Thesis title "Sensitivity-optimized scatterometry" I studied general optics and I specialized in scatterometry and sensitivity optimization
Name and type of organisation providing education and training University of New Mexico
Dates September 1987 – July 1992
Title of qualification awarded Diplomate engineer in physics
Principal subjects/occupational skills covered Thesis title "Optical processing of information". I studied general physics and I specialized in Fourier optics and holography.
Name and type of organisation providing education and training Universitatea Bucureşti, Facultatea de Fizica Tehnologica

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Independent user	C2	Proficient user	B1	Independent user	B2	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Intercultural: I lived for 7 years in USA in a multicultural university environment among colleagues from all parts of the world.

Organisational skills and competences

As a senior researcher I had to instruct and coordinate the junior researchers in my research group. I was for 3 years during my sojourn at the University of New Mexico the head of the nanometrology department of the Centre for High Technology Materials.

Computer skills and competences

Computer languages: Pascal, Fortran, Mathematica, Mathcad, Labview. I am also proficient with Microsoft Office programmes.

Annexes

List of articles published in scientific international journal with impact factor.

List of articles published in scientific international journal with impact factor

No	Article
1	P.C. Logofătu, D. Apostol, V. Damian and R. Tumber, "Ambiguities in determining the optical constants for two reflection methods", <i>Appl. Opt.</i> 35 (1), 117-119 (1996) doi:10.1364/AO.35.000117
2	P.C. Logofătu, D. Apostol, V. Damian and R. Tumber, "Optimum angles for determining the optical constants from reflectivity measurements", <i>Meas. Sci. Technol.</i> 7 (1), 52-57 (1996). DOI: 10.1088/0957-0233/7/1/007
3	D. Apostol, P.C. Logofătu, V. Damian and A. Dobroiu, "Sensitivity analysis of parameter determination from measurements of directly measurable quantities using the Jacobian", <i>Opt. Eng.</i> 35 (5), 1288-1291 (1996). doi:10.1117/1.600998
4	P.C. Logofatu, D. Apostol, V. Damian and R. Tumber, "Determination of optical constants of metal by near grazing incidence reflectivity measurements," <i>Infrared Phys. Techn.</i> 37 (3), 335-341 (1996).
5	A. Dobroiu, P.C. Logofătu, D. Apostol and V. Damian, "Statistical self-calibrating algorithm for three-sample phase-shift interferometry", <i>Meas. Sci. Technol.</i> 8 (7), 738-745 (1997). DOI: 10.1088/0957-0233/8/7/008
6	P.C. Logofătu, S. A. Coulombe, B. K. Minhas and J. R. McNeil, "Identity of the cross reflection coefficients for symmetric surface-relief gratings", <i>J. Opt. Soc. Am. A</i> 16 (5), 1108-1114 (1999). doi:10.1364/JOSAA.16.001108
7	P.C. Logofătu, "Analysis of phase measurement error for null generalized ellipsometry using the phase compensator", <i>J. Optoelectron. Adv. M.</i> , 3 (1), 45-49 (2001)
8	P.C. Logofătu, "Simple method for determining the fast axis of a wave plate", <i>Opt. Eng.</i> 41 (12), 3316-3318 (2002). doi:10.1117/1.1519242
9	A.K. Sharma, S.H. Zaidi, P.C. Logofătu and S.R.J. Brueck, "Optical and electrical properties of nanostructured metal-silicon-metal photodetectors", <i>IEEE J. Quantum Elect.</i> 38 (12), 1651-1660 (2002).
10	P.C. Logofătu, "Sensitivity analysis of grating parameter estimation", <i>Appl. Opt.</i> 41 (34), 7179-7186 (2002) doi:10.1364/AO.41.007179
11	P.C. Logofătu, "Phase-modulation scatterometry," <i>Appl. Opt.</i> 41 (34), 7187-7192 (2002) DOI: 10.1364/AO.41.007187
12	P.C. Logofătu, D. Apostol, V. Damian, I. Iordache, M. Bojan, R. Müller, "Abelès method revisited," <i>Appl. Opt.</i> 45 (6), 1120-1123 (2006) doi:10.1364/AO.45.001120
13	A.K. Sharma, P.C. Logofatu, C.S. Mayberry, S.R.J. Brueck and N.E. Islam, "Effects of dimensional nanoscaling on the optical and electrical properties of crystalline Si thin films", <i>Journal of Applied Physics</i> , 101 (10), 104914 (2007) DOI: 10.1109/JQE.2002.805112
14	P.C. Logofatu, D. Apostol, "The Fourier transform in optics: from continuous to discrete or from analogous experiment to digital calculus," <i>J. Optoelectron. Adv. M.</i> , 9 (9), 2838-2846 (2007)

15	D. Apostol, P.C. Logofatu, S. Florea, V. Damian, I. Iordache, M. Bojan, "Accurate calibration of grating pitch", J. Optoelectron. Adv. M., 10 (2), 352-355 (2008)
16	P.C. Logofatu, D. Apostol, "Fully statistical approach for regression analysis," Measurement 41 (10) 1100-1104 (2008) doi:10.1016/j.measurement.2008.03.001
17	D. Apostol, V. Damian, P.C. Logofatu, "Nanometrology for microsystems: interferometry," Romanian Reports in Physics, 60 (3), 815–828 (2008)
18	P.C. Logofatu, I. Ardelean, D. Apostol, I. Iordache, M. Bojan, C. Moiescu, B. Ionita, "Determination of the magnetic moment and geometrical dimensions of the magnetotactic bacteria using an optical scattering method", Journal of Applied Physics 103 (9) 094911 (2008) DOI: 10.1063/1.2917404
19	V. Nascov, P.C. Logofatu, "Fast computation algorithm for the Rayleigh-Sommerfeld diffraction formula using a type of scaled convolution," Appl. Opt. 48 (22), 4310-4319 (2009) doi:10.1364/AO.48.004310
20	M. Rosu, B. Ionita, D. Apostol, F. Garoi, P.C. Logofatu, "Histogram equalization and specification in interferometry," Optoelectronics and Advanced Materials – Rapid Communications 3 (4) 376-378 (2009)
21	Bogdan Ionita, Petre Catalin Logofatu, Dan Apostol, "Lucky interferometry for displacement measurement", Optical Engineering 48 (11) 115602 (2009) doi:10.1117/1.3264960
22	Petre Cătălin Logofătu, John Robert McNeil, Adrian Sima, Bogdan Ioniță, Florin Garoi, Dan Apostol, "The characterization of gratings using the optical scatterometer", Romanian Journal of Physics 55 (3-4) 376-385 (2010)
23	P. C. Logofatu, F. Garoi, A. Sima, B. Ionita, D. Apostol, "Classical holography experiments in digital terms", Journal of Optoelectronics and Advanced Materials, 12 (1) 85-93 (2010)
24	R. Müller, D. Cristea, M. Kusko, P. Obreja, D. Esinenco, V. Damian, P. C. Logofatu, "SU8 polymer materials used in integrated optic microsystems" Optoelectronics And Advanced Materials – Rapid Communications 4 (2) 228 – 233 (2010)
25	Victor Nascov, Petre Catalin Logofatu and Dan Apostol, "The Fourier transform in optics: from continuous to discrete (II)," J. Optoelectron. Adv. M. 12 (6) pp. 1311-1321 (2010).
26	F. Garoi, P. C. Logofatu, D. Apostol, C. Udrea, P. Schiopu, "Interferometric vibration displacement measurement," Romanian Reports in Physics, 62 (3), 671-677 (2010)
27	Bogdan Ioniță, Petre Cătălin Logofătu, Dan Apostol, "Precise interferometric length measurement using real-time fringe fitting," Optik 122 (10) 868-871 (2011) doi:10.1016/j.ijleo.2010.06.011
28	I. Apostol, V. Damian, P.C. Logofatu, D. Apostol, I. Iordache, Rodica Muller, "UV light controlled surface modulation of polymeric films," Romanian Reports in Physics 63 (1), 172-182 (2011)
29	Dan Apostol, Cristian Udrea, Florin Garoi, Tiberius Vasile, Petre Cătălin Logofătu, "High diffraction order grating interferometer for pitch measurement," Optical Engineering 50 (10), (2011)
30	Bogdan Florin Ionita, Florin Garoi, Petre Catalin Logofatu, Dan Apostol "PZT calibration," Optik 124 (17) 2803–2806 (2013)
31	Petre Catalin Logofatu, Victor Nascov, "Addendum to the Sampling Theorem: Improved Accuracy Interpolation for Sampled Functions," Romanian Journal of Physics, Volume 59, Number 3-4, 2014
32	Garoi, F; Logofatu, PC; Iordache, J; Vasile, T; Coltuc, D, "On the implementation of hadamard spectroscopy," UNIVERSITY Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics Volume: 77 Issue: 1 Pages: 177-186 Published: 2015
33	Petre C Logofatu, Victor Damian, "Super resolution terahertz imaging by subpixel estimation: application to hyperspectral beam profiling," J. Opt. 20 (5) 055701 (2018)
34	P. C. Logofătu, V. Damian, T. Vasile, M. L. Pascu, "Two instances of image super-resolution using sensor raster scanning and deconvolution," to be published in Romanian Reports in Physics, http://www.rp.infim.ro/IP/A383.pdf
35	Petre Cătălin Logofătu, Victor Damian, "Snapshot interferometric multispectral imaging using deconvolution and colorimetric fit," accepted for publication in Optics and Laser Technology