

George-Pantelimon POPESCU

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Sex Male | Date of Birth 30/06/1984 | Nationality Romanian | Marital status Married, with kids

PROFESSIONAL EXPERIENCE

2016 – present

Associate Professor

Computer Science and Engineering Department, Faculty of Automatic Control and Computers, University Politehnica of Bucharest

Courses: Numerical Methods, Introduction in Quantum Computing
Applications: Programming, HPC, Numerical Methods, Quantum Computing

Type of business or sector Higher education

2012 - 2016

Lecturer

Computer Science and Engineering Department, Faculty of Automatic Control and Computers, University Politehnica of Bucharest

▪ Courses: Numerical Methods;
Applications: Programming, HPC, Numerical Methods

Type of business or sector Higher education

2008 - 2012

Guest lecturer

Computer Science and Engineering Department, Faculty of Automatic Control and Computers, University Politehnica of Bucharest

▪ Applications: μ C Design, Programming, Numerical Methods

Type of business or sector Higher education

2005 – 2010

Associate in SC μ Software Impex SRL

SC Qerrt Software Impex SRL

▪ Web design, Web programming

Type of business or sector IT

EDUCATION

2014 - 2015

Postdoctoral in Applied Mathematics

Coordinated by prof. Nicolae TAPUS,
University Politehnica of Bucharest

2008 - 2011

PhD in Applied Mathematics

Thesis coordinated by prof. Octavian STANASILĂ,
Applied Sciences Faculty – Mathematics,
University Politehnica of Bucharest

2003 - 2008

Engineering degree

Thesis coordinated by prof. Nicolae TAPUS,
Faculty of Automatic Control and Computers – Computers C3,
University Politehnica of Bucharest

1999 - 2003

Baccalaureate

St Sava College – Intensive Informatics, Bucharest

PERSONAL COMPETENCES

Mother tongue
Other languages*

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	English	C2	C2	C2	
French	C2	C2	B2	B2	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2: Proficient user
*Common European Framework of Reference (CEF) levels

IT Experience

Software programming:
Visual C++, C/C++, S.T.L., Java, WindowsOS, LinuxOS, HTML, XML, JavaScript, OpenGL, Flex, Bison, OpenMP, MPI, Shell Script, Pascal, Phyton, Prolog, Php, Matlab, Octave, Mathematica, Maple;
Hardware programming:
Assembler, WinAVR, Proteus, Multisim, CircuitMaker, ModelSim, Xilinx;
Setup, administration and usage:
WindowsOS, LinuxOS, WebServer, MailServer, FtpServer, Data bases (Oracle, MySql), Networking, Joomla, Moodle;
Design/WebDesign:
Adobe PhotoShop CS, Gimp, Corel, VirtualDub, Macromedia Flash, Ajax;

Driving licence

▪ B

OTHER INFORMATION

Scientific Contributions
(selection)

Books

- Inegalitati alese in matematica - Inegalitati clasice* (Inequalities in Mathematics – Classical Inequalities), Ed. Niculescu, Bucuresti, 2005, p. 180; with I.V.Maftei et al.
- Inegalitati matematice - Modele inovatoare* (Mathematical Inequalities – Innovative Models), Ed. Didactica si Pedagogica, Bucuresti, 2007, p.186; with I.V.Maftei, J.L.Diaz-Barrero and M.Dinca.
- Enunturi Matematice Comentate*, Ed. Politehnica Press, Bucuresti, 2017, p. 105; with O.Stanasila.
- Inegalitati pentru Entropia Informationala*, Ed. Politehnica Press, 2017, p. 120.

Thesis

- Problema logaritmilor discreti in criptografie - Monoizi in criptografie* (en: Discrete Logarithms in Cryptography – Monoids in Cryptography), Graduation thesis, University Politehnica Bucharest, 2008, p. 67 (advisor: prof. dr. ing. Nicolae Tapus).
- Contributii privind entropia si informatia mutuala* (Contributions regarding entropy and mutual information), PhD dissertation, University Politehnica Bucharest, 2011, p. 120 (advisor: prof. dr. mat. Octavian Stanasila).

Editorial experience

1. Reviewer for [PhysicaA](#) – ISSN: 0378-4371;
2. Reviewer for [U.P.B. Sci. Bull., Series A](#) – ISSN: 1223-7027;
3. Reviewer for [Entropy](#) – ISSN: 1099-4300;
4. Reviewer for [Computers and Mathematics with Applications](#) - ISSN: 0898-1221;
5. Reviewer for [Future Generation Computer Systems](#) - ISSN: 0167-739X;
6. Member in the Editorial Board of the [Arhimede](#) Journal, 2002-2007.

- POS DRU Projects**
- 2011, 2012, 2013** Expert in the project: *Cadru de referinta al curriculumului national pentru invatamantul preuniversitar: un imperativ al reformei curriculare* (National Strategic Reference Framework for Undergraduate Education – A Requirement of the Curricula Reform), [POS DRU / 55/1.1/S/25088](#)
(Php, MySQL, webdesign, Joomla, Moodle)
- 2011-2012** Expert in the project: *Dezvoltarea resursei umane pentru managementul eficient al bazelor de date calitative ale rezultatelor examenelor si evaluarilor nationale din invatamantul preuniversitar* (Human Ressources Development for the Efficient Management of Qualitative Data Bases of Undergraduate Level Examination and Evaluation Results), DRU - MEBD – EN, [POS DRU / 57/1.3/S/21086](#)
(ORACLE database, Php, webdesign, Joomla, Moodle)
- 2012** Expert in the project: *Competente cheie TIC in curriculumul scolar* (Key IT&C Competences in Undergraduate Curricula), [POS DRU / 1/1.1/S/5](#)
(Php, webdesign, Joomla, Moodle)
- 2011** Expert in the project: *Restructurarea curriculumului național în învățământul liceal* (Restructuring the National Highschool Curricula), [POS DRU / 55/1.1/S/31536](#)
(Php, MySQL, webdesign, Joomla, Moodle)
- National UPB Projects**
- 2016-2017** Director proiect: Excellence Research Grants Program, UPB - GEX. Identifiers: UPB - EXCELENTA - 2016, Managementul Eficient al Datelor In Sisteme Distribuite Moderne bazat pe Noi Limite ale Entropiei (acronym: [BigDataH](#)), Contract numbers: [18/26.09.2016](#), Universitatea Politehnica din Bucuresti;
- National PNII Projects**
- 2015-2017** Member in the project: DataWay - Real-time Data Processing Platform for Smart Cities: Making sense of Big Data, [PN-II-RU-TE-2014-4-2731](#)
- EU COST Projects**
- 2014-2018** Coordinator for: ICT COST Action CRYPTACUS, [IC 1403](#)
- FP7 Projects**
- 2012-2015** Member in the project: LEXNET Low EMF Networks, [FP7, ID. 2342342](#)

1. 3rd Prize in the 50th Nation-wide Mathematics Contest, Alba-Iulia, 1999.
2. 1st Prize in the Student Scientific Session (Mathematics), C.N.S.S., 2000, with the paper: *On the Second Degree Equation* (with A.F.Cotoi and M.Trantea).
3. 1st Prize in the Student Scientific Session (Informatics), C.N.S.S., 2000, with the project *Probabilities* (with M.A.Tataram).
4. 1st Prize in the Student Scientific Session (Mathematics), C.N.S.S., 2001, with the paper *Geometrical Inequalities in a Triangle*.
5. 1st Prize in the Student Scientific Session (Mathematics), C.N.S.S., 2002 with the paper *On Several Functional Equations*.
6. 1st Prize in the Student Scientific Session (Informatics), C.N.S.S., 2002, with the project *SUPERGRAPH* (with A.F.Cotoi).
7. 1st Prize in the Student Scientific Session (Mathematics), C.N.S.S., 2003 with the paper *Stability Properties in Monoids*.
8. 3rd Prize in the Student Scientific Session (Mathematics), U.P.B., 2004, with the paper *Inverse Elements in Finite Monoids*.
9. 2nd Prize in the Student Scientific Session (Modern Physics), U.P.B., 2004, with the paper, *Are there Fractals in Electromagnetism?* (with M.Trantea and A.Giurgiu).
10. 2nd Prize in the Student Scientific Session (Mathematics), U.P.B., 2005, with the paper *On Riemann's Zeta Function*.
11. Honorable Mention in the Student Scientific Session (Educational Psychology), U.P.B., 2005, with the paper *The Diversity of IQ Testing* (with A.Popa, S.Dumitrescu, and A.Smeureanu).
12. Honorable Mention in the Student Scientific Session (Mathematics), U.P.B., 2006, with the paper *Obtaining rational identities involving polynomials*.
13. 1st Prize in the Case Study 2007 contest – First steps in entrepreneurship, organized by VWI and Forpeople, 9 December 2007. (Member of the Qerrt team, with M.Tataram and A.Popa).
14. Semi-finalist in the Imagine Cup - Embedded Development(Section: Improving Learning) project *The BlueToys*, spring 2007. (Team ASGA with A.Smeureanu, S.Dumitrescu, A.Popa)

Articles (selection)*

- *Some identities involving rational sums*, [Applicable Analysis and Discrete Mathematics](#), Vol. 1, No. 2, October 2007, p. 397-402, ISSN: 1452-8630 (with J. L. Diaz-Barrero and J. Gibergans Baguena).
- *A polynomial and its zeros*, [American Mathematical Monthly](#), Vol. 114, No. 7, (2007), p. 645-647, ISSN: 0002-9890 (with J. L. Diaz-Barrero)
- *Refinements of Aczel, Popoviciu and Bellman's inequalities*, [Computers and Mathematics with Applications](#), Vol. 56, No. 9, November 2008, p. 2356-2359, ISSN: 0898-1221 (with J.L. Diaz-Barrero and M. Grau-Sanchez).
- *Some results on the geometry of zeros of polynomials*, [Proceeding of the Romanian Academy Series A](#), Vol. 12, No. 1, Martie 2011, p. 16-21, ISSN: 1454-9069 (with J.L. Diaz-Barrero and J.J. Egozcue).
- *New Entropy Upper Bound*, [Applied Mathematics Letters](#), Vol. 25, (2012), p. 1887-1890, ISSN:0893-9659 (and N. Tapus).
- *Bounds for Jeffreys–Tsallis and Jensen–Shannon–Tsallis divergences*, [Physica A](#), vol. 413, ISSN 0378-4371, pp. 280--283, November 2014 (with V. Preda and E.I. Slusanschi).
- *Energy-efficient virtualized clusters*, [Future Generation Computer Systems: The International Journal of eScience](#), Volume 74, September 2017, p. 151-157 (cu M.Carabas)
- *A Geometric Programming Solution for the Mutual Interference Model in HetNets*, [IEEE Communications Letters](#), Vol. 20 (9), 2016, p. 1876-1879, ISSN: 1089-7798 (cu L. Diez, R. Agüero)

*For the complete list of publications see the Article List