

**Mihaela Marinela PAUN**

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**Adresă:** 296 Splaiul Independentei, 060031, Bucuresti, România

Cercetător cu peste 25 de ani de experiență în cercetare interdisciplinară în domeniile biostatistică și biocomputing, bioeconomie, elaborarea politicilor și strategiilor în domeniul cercetării-dezvoltare și inovării, monitorizarea și evaluarea activităților de cercetare științifică activând în instituții de cercetare din Canada, Statele Unite și România.

### **EXPERIENȚA PROFESIONALĂ**

- 10/10/2020 – în curs Bucuresti  
**DIRECTOR GENERAL INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU ȘTIINȚE BIOLOGICE**
- 10/03/2012 – în curs Bucuresti, România  
**CERCETATOR IN STATISTICA APLICATA (CSI DIN 2014, CSII DIN 2012), INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU ȘTIINȚE BIOLOGICE**
- 10/02/2017 – în curs Bucuresti, Romania  
**PROFESOR UNIVERSITAR, ALIBITAT IN STATISTICA SI CIBERNETICA (ATESTAT DIN 28.09.2017) UNIVERSITATEA DIN BUCURESTI, FACULTATEA DE ADMINISTRATIE SI AFACERI**
- 01/09/2003 – 01/05/2013 Ruston, Statele Unite  
**ASSOCIATE PROFESSOR (TENURED) /ASSISTANT PROFESSOR(TENURE TRACK)(INCLUSIV PERIOADA SABATIC ) LOUISIANA TECH UNIVERSITY**

### **EDUCAȚIE ȘI FORMARE PROFESIONALĂ**

- 09/2003 – 05/2006 Louisiana, Statele Unite  
**DOCTORAT ÎN ANALIZĂ ȘI MODELARE COMPUTAȚIONALĂ ȘI STATISTICĂ; DIPLOMĂ OMOLOGATĂ ÎN ROMANIA CA DOCTOR ÎN STATISTICĂ ȘI CIBERNETICĂ, CU NUMĂRUL DESERIE 0000462, 27518 DIN 07.04.2008** Louisiana Tech University
- 09/2001 – 05/2003 London, Ontario, Canada, **MASTER IN STATISTICA SI ACTUARIAT** University of Western
- 01/1999 – 05/2000 London, Ontario, Canada, **MASTER IN INFORMATICA** University of Western Ontario
- 10/1994 – 06/1998 Bucuresti, **LICENȚĂ ÎN MATEMATICĂ ȘI INFORMATICĂ** Universitatea din București
- 2025 - "Managementul performantei – KPI Indicatori cheie de performanta"
- 2022 GUVERNANTĂ CORPORATIVĂ Institutul Bancar Roman
- 2016 MANAGEMENTUL INSTITUTIILOR PUBLICE Academia de Studii Economice Bucuresti
- 2011- 2013 - Leadership training for women faculty in STEM program
  - Workshop for Women Faculty: „How to Boost Your Own Succes;
  - Workshops for Faculty and Administrators”The Logics of Diversity: Why and How Diversity Matters” and “Implementing Diversity”
  - Workshops for Women Faculty: “Mentoring Workshop” and “Worklife Effectiveness”
  - Workshops for Faculty and Administrators: “Negotiation” and “Academic Leadership”
  -

## Competente Lingvistice

Limbă maternă: **ROMÂNĂ**

Altă limbă (Alte limbi):

|                 |    | Oral | Citit | Scris | Conversație |
|-----------------|----|------|-------|-------|-------------|
| <b>ENGLEZĂ</b>  | C2 | C2   | C2    | C2    | C2          |
| <b>SPANIOLĂ</b> | C1 | C1   | B2    | B2    | B2          |

*Niveluri: A1 și A2 Utilizator de bază B1 și B2 Utilizator independent C1 și C2 Utilizator experimentat*

## INFORMATII SCIENTOMETRICE

Web of Science ResearcherID : C-3539-2011 H-Index 11 - 81 publicatii, 1170 citari

ORCID: 0000-0002-3342-9140

Scopus H-Index 13 - (79 publicatii, 1315 citari), Google Scholar - H- 16- (117 publicatii, 915 citari)

## ALTE ACTIVITĂȚI PROFESIONALE

- 09/2021 – ÎN CURS **Membru în consiliul consultativ național al Ministerului Cercetării, Inovării și Digitalizării Colegiul Consultativ pentru Cercetare-Dezvoltare și Inovare (CCCDI) – OM 498/2021**
- 04/2018 – ÎN CURS **Membru al consiliului consultativ național al Ministerului Educației – Consiliul Național de Statistică și Prognoză Învățământului Superior – OM 320 /11/04.2018 și OM3.364/10 martie 2022**
- 04/2017 – 03/2020 **Membru în consiliul consultativ național al Ministerului Educației – Consiliul Național al Cercetării Științifice (CNCS) – OM 231/19 aprilie 2017**
- 06/2017 – 06/2020 **Membru în consiliul consultativ național al Ministerului Educației – Consiliul Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) – secția ȘTIINȚE ECONOMICE ȘI ADMINISTRAREA AFACERILOR – OM 3991/6 iunie 2017**
- 12/2020 – 12.2023 **Expert tehnic în sprijinul proiectului pentru pregătirea DANUBIUS–RI (o infrastructură paneuropeană de cercetare distribuită care susține cercetarea interdisciplinară asupra sistemelor mari râu-mare), POC699/1/1/Infrastructuri mari**

## PROIECTE

2019 – 2022, **ENVironmental Research Infrastructures building Fair services Accessible for society, Innovation and Research, H2020-INFRAEOSC-2018-2020, 2019-2022, budget partner EUR 275 312** Proiect H2020 - coordonator institutie partenera

- 2021 – 2023, **Water scenarios For Copernicus Exploitation, H2020-EU.2.1.6. - INDUSTRIAL LEADERSHIP – Leadership in enabling and industrial technologies – Space, 2021-2023, ID 101004186** Proiect H2020 – coordonator institutie partenera
- 2016 – 2019, **Preparatory phase for the pan-european research infrastructure DANUBIUS-RI , Project ID: 739562, H2020-INFRADEV-2016-2, 2016-2019, budget partner EUR 132 841** Proiect H2020 - coordonator institutie partenera
- 2013 – 2015, **DANube macroregion: Capacity building and Excellence in River Systems (basin, delta and sea), Project ID: 603805, FP7-ENVIRONMENT, 2013-2015, budget partner EUR 45000** Proiect FP7 – persoana cheie
- 2020 – 2023, **PROIECT SUPTOR PENTRU PREGATIREA DANUBIUS - RI (DANS2), Apel:POC/699/1/1/Mari infrastructuri de CD/1/Mari infrastructuri de CD, Mari infrastructuri de CD, decembrie 2020- iunie 2023** Program Operational de Competitivitate - persoana cheie
- 2016 – 2020, **Modelare,Design și Analiză a Sistemelor Sintetice bazate pe Auto-Asamblare: MoDASyS, POC-E-2015- Tip de proiect: Proiecte CD pentru atragerea de personal cu competențe avansate din străinătate,POC 37-257,budget coordinator RON 507,912,2016-2020** Program Operational de Competitivitate - persoana cheie
- 2011 – 2014, **Dezvoltarea unei noi tehnici de segmentare a DNA Arrays, PNII –Tinere Echipe, TE97, 2011-2014, budget coordinator RON 750000** Planul National II - Programul Tinere Echipe - Director de Proiect
- 2008 – 2011,**Grant de Cercetare de la National Science Foundation (NSF 0834483) - (Co-Pi) Investigator secundar, titlul proiectului: “CSR–DMSS, PSCE: Collaborative Research: Scalable Resilience in Large-Scale Systems”, suma acordată proiectului 300.000\$** National Science FoundationCNS: Division Of Computer and Network Systems, [https://www.nsf.gov/awardsearch/showAward?AWD\\_ID=0834483](https://www.nsf.gov/awardsearch/showAward?AWD_ID=0834483) Co-Principal Investigator
- 2007 – 2010, **Grant de Cercetare finantat de Departamentul de Energie (DOE) - (Co-Pi) titlul proiectului: “Reliability, Availability and Serviceability (RAS) for Petascale High-End Computing and Beyond” - budget 300.000\$** Department of Energy <https://arc.csc.ncsu.edu/~mueller/ras.html> Co-Principal Investigator

## Cărți și capitole de cărți

- M. Păun, **Noțiuni de statistica aplicata cu exemple in R**, Editura Matrix, 2016, ISBN: 978-606-25-0278-2. (217 pagini)
- M. Păun, **“Measures of Economic Inequality: Statistical Inequality with Application”**, SBEB Pub., 2008, ISBN 9780980236880, Library of Congress number HB523. P386 2008. (207 pages)
- **“STRATEGIA de DEZVOLTATE A ROMANIEI IN URMATORII 20 de ani”**, Volume 1 Coordinator: Acad. Ionel-Valentin VLAD, Editura Academiei, July 2015, ISBN 978-973-27-2555-9, 498 pages – Co-author (M. Paun), Danube European Project, pg. 351-392.

- “Towards the Integrated Management of the Danube River – Danube Delta – Black Sea system: Proposal for a Strategic Research and Innovation Agenda”, Editors: Jeremy Gault, Chris Bradley, Andrew Tyler, Adrian Stanica, Vangelis Papathanassiou, Gretchen Gettel, GeoEcoMar, 2015, ISBN 978-606-94058-2-6, 53 pages – Co-author (M. Paun)
- “Towards the Integrated Management of the Danube River – Danube Delta – Black Sea system: collaboration of the two EUSDR Flagship Distributed Research Infrastructures”, Editors: Adrian Stanica, Chris Bradley, Andrew Tyler, Helmut Habersack, Bucharest, 2015, GeoEcoMar, 2015, ISBN 978-606-94058-4-0, 48 pages, Co-author (M. Paun)
- “Towards the Integrated Management of the Danube River – Danube Delta – Black Sea system: Proposal for the Development of Human Capital”, Editors: Helmut Habersack, Andrew Tyler, Chris Bradley, Adrian Stanica, Ioana Popescu, GeoEcoMar, 2015. ISBN 978-606-94058-6-4, 49 pages, Co-author (M. Paun)

## Publicații

- Niculescu, AG; Dumitrascu, AM; (...); *Paun, M*, Chifiriuc, MC, Nanotechnology-driven enhancement and modulation of immune responses in monkeypox and respiratory syncytial virus nanovaccine research, Oct 2025 COLLOIDS AND SURFACES B-BIOINTERFACES 254
- Sandu, AM; Chifiriuc, MC; (*Paun, M*); Tantu, MM, Healthcare-Associated Infections: The Role of Microbial and Environmental Factors in Infection Control-A Narrative Review, May 2025, INFECTIOUS DISEASES AND THERAPY 14 (5) , pp.933-971
- Santos, JV; Padron-Monedero, A; (...); Devleesschauwer, B, The state of health in the European Union (EU-27) in 2019: a systematic analysis for the Global Burden of Disease study 2019, May 22 2024, BMC PUBLIC HEALTH 24 (1)
- Rosu, MM; Fiscutean, A and *Paun, M*, The press and government, influencers of citizens political opinions: A quasi-experiment on Brexit, Mar-apr 2024, JOURNAL OF POLICY MODELING 46 (2), pp.272-288
- Martín, JAS; Mitrana, V and *Paun, M*, Networks of evolutionary processors: wheel graph simulation, Dec 2023, JOURNAL OF MEMBRANE COMPUTING 5 (4) , pp.221-237
- Necula, M; Andrei, T; (...); *Paun, M*, Urban Green Index estimation based on data collected by remote sensing for Romanian cities 2023, ROMANIAN STATISTICAL REVIEW (4) , pp.59-76
- Martín, JAS; Mitrana, V and *Paun, M*, Networks of splicing processors: simulations between topologies, Jun 2023, JOURNAL OF MEMBRANE COMPUTING 5 (2) , pp.108-115
- Necula, M; Rosu, MM; (...); *Paun, M*, New Methodological Approach to Classify Educational Institutions-A Case Study on Romanian High Schools, Jul 2022, MATHEMATICS 10 (14)
- Siminea, N; Popescu, V; (*Paun, M*); Petre, I, Network analytics for drug repurposing in COVID-19, Jan 17 2022, BRIEFINGS IN BIOINFORMATICS 23 (1)

- Firescu, A; Necula, M; (...); *Paun, M*, Investigation of the 2019-2021 National Evaluation exam: A case study of high school admissions in Bucharest, 16th International Conference on Business Excellence (ICBE) - New Challenges of the Century - Digital Economy and the Green Revolution, Aug 1 2022, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON BUSINESS EXCELLENCE 16 (1) , pp.59-81
- Necula, M; Rosu, MM; (...); *Paun, M*, New Methodological Approach to Classify Educational Institutions-A Case Study on Romanian High Schools, Mathematics, Jul 2022, 10 (14)
- Buzatu, AR; Cojoc, C; (...); *Paun, M*, Students' perception of online education in the COVID-19 pandemic framework, ROMANIAN STATISTICAL REVIEW, 2020, (3) , pp.3-14
- *Paun, M*; Bilbiie, A; (...); Milea, E, Predicting long-term citation counts in Web of Science: COVID-19 early publications case study, ROMANIAN STATISTICAL REVIEW, 2020, (4) , pp.65-80
- Feldbacher, E; *Paun, M*; (...); Heina, T, Twenty years of research on water management issues in the Danube Macro-region - past developments and future directions, Science of the Total Environment, Dec 1 2016, 572 , pp.1297-1306
- Amarioarei, A; Itcus, C and *Paun, M*, Phytoremediation research - how Romania is placed worldwide, ROMANIAN BIOTECHNOLOGICAL LETTERS, May-Jun 2017, 22 (3) , pp.12651-12660
- Milea, EC; Tiucsan, VM; (...); *Paun, M*, Health Considerations during the COVID-19 Outbreak, INTERNATIONAL JOURNAL OF APPLIED BEHAVIORAL ECONOMICS, 2021, 10 (3) , pp.1-11
- Zhuang, WL; Babin, B; (...); *Paun, M*, The influence of movie's quality on its performance: evidence based on Oscar Awards, MANAGING SERVICE QUALITY, 2014 , 24 (2) , pp.122-138
- Zhuang, WL; Xiao, QA and *Paun, M*, THE EFFECTS OF MOVIE AWARDS ON MOVIE SUCCESS: A REPLICATION USING GOLDEN GLOBE DATA, ECONOMIC COMPUTATION AND ECONOMIC CYBERNETICS STUDIES AND RESEARCH, 2011, 45 (1) , pp.153-165
- *Paun, M*, Inference of the Atkinson index with illustration on Romanian real estate market, ECONOMIC COMPUTATION AND ECONOMIC CYBERNETICS STUDIES AND RESEARCH, 2008, 42 (1-2) , pp.173-18
- Couso, JRS; Arroyo, F; (...); *Paun, M*, Accepting multiple splicing systems, JOURNAL OF KING SAUD UNIVERSITY-COMPUTER AND INFORMATION SCIENCES, Jun 2022, 34 (6) , pp.2910-2915
- Siminea, N; Popescu, V; (...); *Paun, M* ; Petre, I, Network analytics for drug repurposing in COVID-19, BRIEFINGS IN BIOINFORMATICS, Jan 17 2022, 23 (1)
- Couso, JRS; Martin, JAS; (...); *Paun, M*, Simulations between Three Types of Networks of Splicing Processors, Mathematics, Jul 2021, 9 (13)
- Amarioarei, A; Spencer, F; (...); *Paun, M*; Czeizler, E, DNA-Guided Assembly for Fibril Proteins, Mathematics, Feb 2021, 9 (4)
- *Paun, M*; Li, Y; (...); *Paun, A*, Segmenting microarray images using a contour-based method, THEORETICAL COMPUTER SCIENCE, Dec 10 2015, 608 , pp.108-118

- Strimbu, BM; Paun, A; (...); *Paun, M*; Strimbu, VF, Efficient synthetic generation of ecological data with preset spatial association of individuals, CANADIAN JOURNAL OF FOREST RESEARCH, Aug 2021, 51 (8) , pp.1148-1165.
- Strimbu, BM; Amarioarei, A and *Paun, M*, Nonlinear parsimonious forest modeling assuming normal distribution of residuals, Jun 2021, EUROPEAN JOURNAL OF FOREST RESEARCH, 140 (3) pp.659-674
- *Paun, M*; Gunaime, N and Strimbu, BM, Impact of Algorithm Selection on Modeling Ozone Pollution: A Perspective on Box and Tiao (1975), Forests, Dec 2020, 11 (12)
- Amarioarei, A; *Paun, M* and Strimbu, B, Development of Nonlinear Parsimonious Forest Models Using Efficient Expansion of the Taylor Series: Applications to Site Productivity and Taper, Forests, Apr 2020, 11 (4)
- Strimbu, BM; *Paun, M*; (...); Popescu, SC, A scalar measure tracing tree species composition in space or time, PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, Dec 15 2018, 512 , pp.682-692
- Strimbu, BM; Amarioarei, A; (...); *Paun, M*, A posteriori bias correction of three models used for environmental reporting, Forestry, Apr 2018, 91 (1) , pp.49-62
- Strimbu, BM; Amarioarei, A and *Paun, M*, A parsimonious approach for modeling uncertainty within complex nonlinear relationships, Ecosphere, Sep 2017, 8 (9)
- Paun, A; Chandler, C; (...); *Paun, M*, A failure index for HPC applications, JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING, Jul 2016, 93-94 , pp.146-153
- Laosooksathit, S; Nassar, R; (...); *Paun, M*, Reliability-aware performance model for optimal GPU-enabled cluster environment, Jun 2014, JOURNAL OF SUPERCOMPUTING 68 (3) , pp.1630-1651
- Thanakornworakij, T; Nassar, R; (...); *Paun, M*, Reliability model of a system of k nodes with simultaneous failures for high-performance computing applications, INTERNATIONAL JOURNAL OF HIGH PERFORMANCE COMPUTING APPLICATIONS, Nov 2013, 27 (4) , pp.474-482
- Thanakornworakij, T; Nassar, R; (...); *Paun, M*, An Economic Model for Maximizing Profit of a Cloud Service Provider, 2012 SEVENTH INTERNATIONAL CONFERENCE ON AVAILABILITY, RELIABILITY AND SECURITY (ARES) , pp.274-279
- Gottumukkala, NR; Nassar, R; (...); *Paun, M* ; Scott, SL, Reliability of a System of k Nodes for High Performance Computing Applications, IEEE TRANSACTIONS ON RELIABILITY, Mar 2010, 59 (1) , pp.162-169

