

## **Curriculum vitae**

### **Cristina Ștefania STAMIN**

Doctor în Științe Matematice  
Universitatea Politehnică București  
Facultatea de Științe Aplicate

---

#### **Parcurs universitar**

- 2013-2015      Master în domeniul de studii universitare de masterat Științe  
ingineresti aplicate, programul de studii universitare de masterat  
Teoria codării și stocării informației  
Universitatea Politehnică București  
Facultatea de Științe Aplicate  
Lucrarea de dizertație: Compresia entropică  
Coordonator: conf. univ. dr. Radu URSIANU.
- 2003 – 2009      Doctorat în Matematică,  
Universitatea Politehnică București  
Facultatea de Științe Aplicate  
Titlul tezei de doctorat: Geometria și interacțiunea sistemelor  
termodinamice neolonyme  
Data susținerii: 9 octombrie 2009  
Conducător de doctorat: prof. univ. dr. Constantin UDRIȘTE  
Juriul tezei: prof. univ. dr. Gheorghe CĂTA-DANIL (președinte),  
prof. univ. dr. Constantin UDRIȘTE, prof. univ. dr. Vincenzo  
CIANCIO, prof. univ. dr. Gabriel-Teodor PRIPOAE, prof. univ. dr.  
Vladimir BALAN, prof. univ. dr. Olivian SIMIONESCU-PANAIT
- 2000 – 2002      Master, specializarea Algebră  
Universitatea București  
Facultatea de Matematică  
Lucrarea de dizertație: Tipuri de reprezentări finite  
Coordonator: prof. univ. dr. Dragoș ȘTEFAN
- 1996 – 2000      Universitatea București  
Facultatea de Matematică  
Specializarea: matematică (în limba franceză)

## **Experiența profesională universitară**

|                |                                                                                                                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2012 - prezent | Asistent dr.<br>Universitatea Politehnică București<br>Facultatea de Științe Aplicate<br>Departamentul de Metode și modele matematice<br>Seminarii de matematică                                       |
| 2011 – 2012    | Lector dr. colaborator<br>Universitatea Politehnică București<br>Facultatea de Științe Aplicate<br>Departamentul de Matematică și Informatică<br>Seminari de Matematici speciale și Analiză matematică |
| 2010 – 2011    | Asistent dr. colaborator<br>Universitatea Politehnică București<br>Catedra de Matematici I<br>Seminari de Algebră și laborator Maple                                                                   |
| 2010 – 2011    | Asistent dr. colaborator<br>Universitatea de Științe Agronomice și Medicină Veterinară<br>București<br>Catedra de Matematica<br>Seminarii de matematica                                                |
| 2003 – 2007    | Doctorand bursier cu frecvență<br>Universitatea Politehnică București                                                                                                                                  |
| 2002 – 2004    | Asistent colaborator<br>Universitatea Politehnică București<br>Catedra de Matematici II<br>Seminarii de matematică                                                                                     |
| 2000 – 2002    | Asistent colaborator<br>Universitatea București<br>Facultatea de Matematică<br>Catedra de Algebră<br>Seminari de Algebră                                                                               |

**Burse de studiu:** bursa de studiu - doctorat, Universitatea Politehnică București (oct. 2003 - nov. 2007)

## **Activitate științifică**

**Domenii de interes științific:** geometrie diferențială, analiză matematică și algebră

## **Publicații**

### ***Cărți***

1. Dogaru, O., Stamin C., Algebră liniară. Calcul vectorial - exerciții și probleme, Colecția Manuale. Tratatate. Monografii, Editura Fair Partners 2008.
2. Dogaru, O., Constantinescu, M., Stamin C., Geometrie analitică. Geometrie diferențială - noțiuni teoretice și probleme, Colecția Manuale. Tratatate. Monografii, Editura Fair Partners 2009.
3. Sebe, G. I., Stamin, C. S., Calcul diferencial, Colecția Manuale. Tratatate. Monografii, Editura Fair Partners 2012.

### ***Articole in extenso, publicate în reviste din fluxul international principal***

1. Balan V., Stamin C., State-space exact linearization and stabilization with feedback control in SODE economic models, Journal of Applied Mathematics and Computing, Springer Berlin / Heidelberg, Volume 28, Numbers 1-2 / August, (2008).
2. Stamin C., Udriște, C., Nonholonomic geometry of Gibbs contact structure, UPB Scientific Bulletin, Series A, Vol. 71, Iss. 2, 2009.
3. Matei, I., Stamin, C., Explaining the relationship between energy consumption and economic growth in a dynamic panel model: Are the BRICs countries different?, International Journal of Environmental & Agriculture Research (IJOEAR), Vol-2, Issue-7, July 2016.

### ***Publicații in extenso, în lucrări ale conferințelor internaționale de specialitate***

1. Balan V., Stamin C., Applications of the nonlinear feedback control in neural excitation processes, Proceedings of the 5th Annual Symposium on "Mathematics Applied in Biology & Biophysics" BioMathPhys2006, 16-17 June 2006, Iași, Romania, Scientific Annals of U.A.S.V.M. Iași, Sect. Horticulture, Tom XLIX, 2 (2006), 119-128.
2. Balan V., Stamin C., Goal-asymptotic approach within space exact linearization of the Hindmarsh-Rose bursting model, Proceedings of The XIV-th Conference on Applied and Industrial Mathematics (Satellite Conference of ICM 2006), 17-19 August 2006, Chișinău, Moldova, (2006), 26-30.
3. Dogaru, O., Udriște, C., Stamin C., From curves to extrema, continuity and convexity, Proceedings of The 4-th International Colloquium of Mathematics in Engineering and Numerical Physics (MENP-4), October 6-8, (2006), Bucharest,

Romania, pp. 58-62.

4. Balan, V., Stamin C., Stabilization with feedback control in the Kaldor economic model. Proceedings of the 4th international colloquium on mathematics in engineering and numerical physics (MENP-4), Bucharest, Romania, October 6-8, 2006. Mathematics sections, Bucharest, Geometry Balkan Press, BSG Proceedings 14, 19-24 (2007).

5. Dogaru, O., Udriște, C., Stamin C., Lateral extrema and convexity, Proceedings of The International Conference "Differential Geometry and Dynamical Systems" (DGDS-2007), October 5-7, (2007) Bucharest, Romania, pp. 82-88.

6. Dogaru, O., Udriște, C., Stamin C., Extremum problems with unidimensional constraints, Proceedings of the 7th WSEAS International Conference on Applied Computer and Applied Computational Science (ACACOS '08), Hangzhou, China, April 6-8, (2008), pp. 41-49.

7. Stamin C., Udriște, C., The geometry of Gibbs-Duhem-Pfaff thermochemical systems, Proceedings of The 7th WSEAS International Conference on Instrumentation, Measurement, Circuits and Systems (IMACS-08), Hangzhou, China, April 6-8, (2008), Electrical and Computer Engineering Series, pp. 77-89.

8. Stamin C., Udriște, C., Subriemannian geometry of an open thermodynamical system, in Proceedings of the 2nd WSEAS International Conference on Multivariate Analysis & its Application in Science and Engineering (MAASE'09), Istanbul, Turkey, May 30-June 1, 2009, pp 60-67.

9. Stamin C., Udriște, C., Dogaru, O., The interaction of two open thermodynamical systems, WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'09), Moscow, Russia, August 20-22, (2009), 618-202.

10. Stamin C., Udriște, C., Nonholonomic Gibbs hypersurface, The International Conference of Differential Geometry and Dynamical Systems (DGDS-2009) October 8-11, 2009, University Politehnica of Bucharest, Romania.

11. Stamin, C. S., Udriște, C., Nonholonomic Geometry of Gibbs-Duhem Symplectic Metric Structure, Proceedings of the 15th International Conference on Automatic Control, Modelling & Simulation (ACMOS-13), Brasov, Romania, June 1-3, 2013

12. Șandru, O.I., Vlădăreanu, L., Munteanu, R.A., Stanciu, C.L., Stamin, C., Genetic Algorithm for the Learning Automata, The annual symposium of the Institute of Solid Mechanics, SISOM 2013 and Symposium of Acoustics and Symposium of Robotics, Bucharest, May 21-22, 2013.

### ***Conferințe naționale/internaționale și seminarii***

1. 2006 The 5th Annual Symposium on "Mathematics Applied in Biology Biophysics", 16-17 June, Iași, Romania.
2. 2006 The Conference on Applied and Industrial Mathematics (Satellite Conference of ICM 2006) 17-19 August 2006, Chișinău, Moldova.
- 3, 2007 The 4th international colloquium on mathematics in engineering and numerical physics (MENP-4), October 6-8, Bucharest, Romania.
4. 2007 The International Conference "Differential Geometry and Dynamical Systems" (DGDS-2007) October 5-7, Bucharest, Romania.
- 5, 2008 The 7th WSEAS International Conference on Instrumentation, Measurement, Circuits and Systems (IMACS-08), April 6-8, Hangzhou, China.
6. 2009 The 2nd WSEAS International Conference on Multivariate Analysis & its Applications in Science and Engineering (MAASE'09), May 30-June 1, Istanbul, Turkey.
7. 2009 International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'09) August 20-22, Moscow, Russia.
8. 2009 The International Conference of Differential Geometry and Dynamical Systems (DGDS-2009), October 8-11, University Politehnică of Bucharest, Romania.
9. The 15th International Conference on Automatic Control, Modelling & Simulation (ACMOS-13), Brasov, Romania, June 1-3, 2013
10. The annual symposium of the Institute of Solid Mechanics, SISOM 2013 and Symposium of Acoustics and Symposium of Robotics, Bucharest, May 21-22, 2013

### **Diverse**

Competențe lingvistice: franceză (fluent), engleză (mediu).

## LISTA DE LUCRĂRI PUBLICATE

Stamin Cristina Ștefania

### A. TEZA DE DOCTORAT

Geometria și interacțiunea sistemelor termodinamice neolonome (**T**)

### B. CĂRTI PUBLICATE

1. Dogaru, O., **Stamin** C., Algebră liniară. Calcul vectorial - exerciții și probleme, Colecția Manuale. Tratatate. Monografii, Editura Fair Partners 2008 (**Ca**).
2. Dogaru, O., Constantinescu, M., **Stamin** C., Geometrie analitică. Geometrie diferențială - noțiuni teoretice și probleme, Colecția Manuale. Tratatate. Monografii, Editura Fair Partners 2009 (**Ca**).
3. Sebe, G. I., **Stamin**, C. S., Calcul diferential, Colecția Manuale. Tratatate. Monografii, Editura Fair Partners 2012 (**Ca**).

### C. ARTICOLE/STUDII IN EXTENSO PUBLICATE

1. Balan V., **Stamin** C., State-space exact linearization and stabilization with feedback control in SODE economic models, Journal of Applied Mathematics and Computing, Springer Berlin / Heidelberg, Volume 28, Numbers 1-2 / August, (2008) (**Rio**).
2. **Stamin** C., Udriște, C., Nonholonomic geometry of Gibbs contact structure, UPB Scientific Bulletin, Series A, Vol. 71, Iss. 2, 2009 (**Ris**)
3. Matei, I., **Stamin**, C., Explaining the relationship between energy consumption and economic growth in a dynamic panel model: Are the BRICs countries different?, International Journal of Environmental & Agriculture Research (IJOEAR), Vol-2, Issue-7, July 2016 (**Rio**)
4. Balan V., **Stamin** C., Applications of the nonlinear feedback control in neural excitation processes, Proceedings of the 5th Annual Symposium on "Mathematics Applied in Biology & Biophysics" BioMathPhys2006, 16-17 June 2006, Iași, Romania, Scientific Annals of U.A.S.V.M. Iași, Sect. Horticulture, Tom XLIX, 2 (2006), 119-128 (**Vi**).
5. Balan V., **Stamin** C., Goal-asymptotic approach within space exact linearization of the Hindmarsh-Rose bursting model, Proceedings of The XIV-th Conference on Applied and Industrial Mathematics (Satellite Conference of ICM 2006), 17-19 August 2006, Chișinău, Moldova, (2006), 26-30 (**Vi**).

6. Dogaru, O., Udriște, C., **Stamin** C., From curves to extrema, continuity and convexity, Proceedings of The 4-th International Colloquium of Mathematics in Engineering and Numerical Physics (MENP-4), October 6-8, (2006), Bucharest, Romania, pp. 58-62 (**Vi**).
  
7. Balan, V., **Stamin** C., Stabilization with feedback control in the Kaldor economic model. Proceedings of the 4th international colloquium on mathematics in engineering and numerical physics (MENP-4), Bucharest, Romania, October 6-8, 2006. Mathematics sections, Bucharest, Geometry Balkan Press, BSG Proceedings 14, 19-24 (2007) (**Vi**).
  
8. Dogaru, O., Udriște, C., **Stamin** C., Lateral extrema and convexity, Proceedings of The International Conference "Differential Geometry and Dynamical Systems" (DGDS-2007), October 5-7, (2007) Bucharest, Romania, pp. 82-88 (ISI) (**Vis**).
  
9. Dogaru, O., Udriște, C., **Stamin** C., Extremum problems with unidimensional constraints, Proceedings of the 7th WSEAS International Conference on Applied Computer and Applied Computational Science (ACACOS '08), Hangzhou, China, April 6-8, (2008), pp. 41-49 (**Vis**).
  
10. **Stamin** C., Udriște, C., The geometry of Gibbs-Duhem-Pfaff thermochemical systems, Proceedings of The 7th WSEAS International Conference on Instrumentation, Measurement, Circuits and Systems (IMACS-08), Hangzhou, China, April 6-8, (2008), Electrical and Computer Engineering Series, pp. 77-89 (**Vis**).
  
11. **Stamin** C., Udriște, C., Subriemannian geometry of an open thermodynamical system, in Proceedings of the 2nd WSEAS International Conference on Multivariate Analysis & its Application in Science and Engineering (MAASE'09), Istanbul, Turkey, May 30-June 1, 2009, pp 60-67 (**Vis**).
  
12. **Stamin** C., Udriște, C., Dogaru, O., The interaction of two open thermodynamical systems, WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'09), Moscow, Russia, August 20-22, (2009), 618-202 (**Vis**).
  
13. **Stamin** C., Udriște, C., Nonholonomic Gibbs hypersurface, The International Conference of Differential Geometry and Dynamical Systems (DGDS-2009) October 8-11, 2009, University Politehnica of Bucharest, Romania (**Vi**).
  
14. **Stamin**, C. S., Udriște, C., Nonholonomic Geometry of Gibbs-Duhem Symplectic Metric Structure, Proceedings of the 15th International Conference on Automatic Control, Modelling & Simulation (ACMOS-13), Brasov, Romania, June 1-3, 2013 (**Vis**)

15. Șandru, O.I., Vlădăreanu, L., Munteanu, R.A.; Stanciu, C.L., **Stamin**, C., Genetic Algorithm for the Learning Automata, The annual symposium of the Institute of Solid Mechanics, SISOM 2013 and Symposium of Acoustics and Symposium of Robotics, Bucharest, May 21-22, 2013 (**Vi**).

16. Meghea, I., **Stamin**, C.S., On a problem of mathematical physics equations, Bulletin of the Transilvania University of Brașov, Vol 11(60), No. 2 – 2018, Series III: Mathematics, Informatics, Physics, 169-180 (**Vi**).

25.09.2025

Stamin Cristina Ștefania