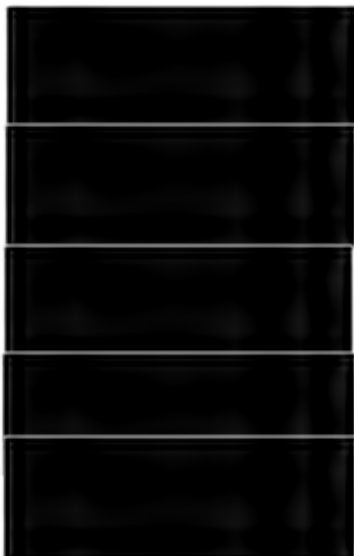


PERSONAL INFORMATION

DESIRED EMPLOYMENT/
POSITION

OTROCOL DIANA IOANA



Technical University of Cluj-Napoca / Faculty of Automation and Computer Science / Department of Mathematics / Associate professor, position 19

WORK EXPERIENCE

2017-present
Occupation

Assistant professor

Technical University of Cluj-Napoca, Memorandumului St., No. 28, Cluj-Napoca 400114, Faculty of Automation and Computer Science, Department of Mathematics, www.utcluj.ro

- Didactic activities - Lectures: Mathematical Analysis, Linear Algebra and Analytical Geometry, Special Mathematics
- Didactic activities - Seminars: Mathematical Analysis, Linear Algebra and Analytical Geometry, (in Romanian and in English), Special Mathematics, Special Mathematics in Engineering (in Romanian and in english), Differential Equations

Type of activity or sector Education, University Education

2016-2017

Extern Assistant professor

Technical University of Cluj-Napoca, Memorandumului St., No. 28, Cluj-Napoca 400114, Faculty of Automation and Computer Science, Department of Mathematics, www.utcluj.ro

- Didactic activities - Seminars: Mathematical Analysis, Linear Algebra and Analytical Geometry, Differential Equations

Type of activity or sector Education, University Education

- 2011-present **Scientific Researcher III**
Tiberiu Popoviciu Institute of Numerical Analysis, Romanian Academy, Fântânele St., no. 57, ap. 67-68, 400320 Cluj-Napoca, ROMANIA, www.ictp.acad.ro
▪ Research Activities
Type of activity or sector Romanian Academy, Research Activities
- 2011-2012 **Extern Assistant**
Iuliu Hatieganu University of Medicine and Pharmacy of Cluj Napoca, Faculty of Pharmacy, Louis Pasteur St., no. 4, 2, 400349 Cluj-Napoca, Romania, www.farmacie.umfcluj.ro
Type of activity or sector Education, University Education
- 2008-2011 **Scientific Researcher**
Tiberiu Popoviciu Institute of Numerical Analysis, Romanian Academy, Fântânele St., no. 57, ap. 67-68, 400320 Cluj-Napoca, ROMANIA, www.ictp.acad.ro
▪ Research Activities
Type of activity or sector Romanian Academy, Research Activities
- 2006-2008 **Researcher**
Tiberiu Popoviciu Institute of Numerical Analysis, Romanian Academy, Fântânele St., no. 57, ap. 67-68, 400320 Cluj-Napoca, ROMANIA, www.ictp.acad.ro
▪ Research Activities
Type of activity or sector Romanian Academy, Research Activities

- 2002-2006 **PhD in Mathematics**
Babes-Bolyai University, Faculty of Mathematics and Computer Science,
Mihail Kogălniceanu St., no. 1, RO-400084 Cluj-Napoca, ROMANIA,
www.cs.ubbcluj.ro
- Didactic and research activities
- Type of activity or sector Education, University Education
- 2001-2002 **Teacher of Mathematics**
Scholar and Industrial Group Construcții de Mașini Sibiu, Romania, Henri Coanda
St., no. 51
- <http://gruphenricoanda.xhost.ro>
- Didactic activities
- Type of activity or sector Education
- 1998-2001 **Teacher of Mathematics**
Technical College Independenta Sibiu, Romania, Gladiolelor St., no. 2
- Didactic activities
- Type of activity or sector Education
- Teacher of Mathematics**
- 1997-1998 National Pedagogic College Andrei Saguna Sibiu, Romania, Aleea Turnu Rosu
St., no. 2
- General School no. 19, Aleea Turnu Rosu no. 2, Sibiu
- Didactic activities
- Type of activity or sector Education

EDUCATION AND TRAINING

- 2014 **Project Manager**
Specialization program for “Project Manager”, COR 241919, SC Industrial Euro, Alba Iulia
- 2002-2006 **PhD in Mathematics**
Doctoral School of Mathematics and Computer Science
Babes-Bolyai University, Faculty of Mathematics and Computer Science
Mihail Kogălniceanu St., no. 1, RO-400084 Cluj-Napoca, ROMANIA.
www.cs.ubbcluj.ro
- Domain: Mathematics
- 2001-2002 **Master’s degree in Mathematics and Applied Informatics**
Lucian Blaga University, Faculty of Sciences, Sibiu, Dr.I.Ratiu St., No 550012, Romania,
- Specialization: **Mathematics and Applied Informatics**
- 1999 **Full time professional degree**
Babes-Bolyai University, Faculty of Mathematics and Computer Science, Mihail Kogălniceanu St., no. 1
RO-400084 Cluj-Napoca, ROMANIA, www.cs.ubbcluj.ro
- 1993-1997 **Bachelor’s degree in Mathematics**
Babes-Bolyai University, Faculty of Mathematics and Computer Science, Mihail Kogălniceanu St., no. 1
RO-400084 Cluj-Napoca, ROMANIA, www.cs.ubbcluj.ro
- Domain: MATHEMATICS

PERSONAL SKILLS

Native Language Romanian

Other Languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
Language Certificate UTCN.					
French	B1	B1	B1	B1	B1

Language Certificate

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills: Good communication skills acquired through experience as a university teacher and scientific researcher III and through

- Participation on national and international scientific conferences.

**Organisational/
Managerial skills**

- 2014** ▪ I attended a course with the specialization “**Project Manager**”, COR 241919, SC Industrial Euro, Alba Iulia
- 2019** I attended a course “**Career coaching for young people**”, in the project CNFIS-FDI-2019-0243, entitled “Increasing the access to technical higher education and social inclusion through career education - PRO UNIV”, Career Counseling and Guidance Center, Tehnical University of Cluj-Napoca
- 2019-2022** ▪ **Assistant manager** - project ROSE (Can!)- Education and career counseling for increasing the retention rate in the first year of university studies at the Faculty of Automation and Computer Science, Technical University of Cluj Napoca. ROSE (Romania Secondary Education Project)-AG239/SGU/NC/II

**Scientific
organizations:**

- Member of the local organizing committee of:
- **Cluj Academic Days**, Cluj-Napoca, Romania, 2008
 - **International Conference on Nonlinear Operators, Differential Equations and Applicatons**, 2004 and 2007, Cluj-Napoca Romania
 - **The 16th International Conference on Applied Mathematics and Computer Science** , Cluj-Napoca, România, 3-6 July, 2019.
 - Member of the local organizing committee of: “**The 13th Romanian - German Seminar on Approximation Theory and Its Applications**”, Cluj-Napoca, România, 3-6 Iulie, 2019.

Other affiliations

- Member of the local organizing committee of: “**10th International Symposium on Generalized Convexity and Monotonicity**”, Cluj-Napoca, România, 22-27 August, 2011.
- Member of the **Romanian Mathematical Society (SSMR)**
- Member of “**Theodor Angheluta Seminar**”
- Editorial secretary of the journal **Journal of Numerical Analysis and Approximation Theory** (Revue d'Analyse Numérique et de Théorie de l'Approximation) in the period 2013-2022
- Editorial secretary of the journal **Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity**

Didactical projects

05 mai 2023-prezent

Learning expert in in the project FDI-2023-F-0322, Career Counseling and Guidance Center, Tehnical University Cluj Napoca

2020-2021

▪ **Educational marketing expert**- in the project „Education and career counseling for increasing the retention rate in the first year of university studies” at the Faculty of Automation and Computer Science, Technical University of Cluj Napoca.
ROSE (Romania Secondary Education Project) - AG239/SGU/NC/II

2019-2021

Learning Expert (support lectures for first year students – project ROSE “Centre of Learning and Study CeSTI”), Technical University of Cluj Napoca, Project No. 99/SGU/CI/II din 17.12.2018

2019-present

Support lectures for students for the competition: ”Traian Lalescu’s Students Mathematics competition”

Digital skills

- Advanced digital skills for Microsoft Office, LaTeX
- Knowledge of programming languages: Matlab, Maple, Mathematica

Driver’s license

▪ B

RESEARCH DOMAIN

- Fixed point theory
- Techniques for approximating the solutions of differential equations
- Ulam-Hyers stability of equations and operators
- The study of the convergence of some classes of linear and positive operators

Reviewer

- Mathematical Reviews
- Nonautonomous Dynamical Systems
- Demonstratio Mathematica
- Discrete and Continuous Dynamical Systems
- Fractal and fractionals
- Qualitative Theory of Dynamical Systems
- Mathematics
- Studia Universitatis Babes-Bolyai Mathematica
- Fixed Point Theory

Publications: 47 Papers and 1 book

Web of Science Hirsh index - 7

Scopus Hirsh index - 8

Google scholar Hirsh index - 11

Publications 29 papers in ISI Journals, 16 papers in BDI journals, 2 papers in Proceedings and 1 book

Relevant publications (ISI)

- V. Ilea, **D. Otrocol**, I.A. Rus, M.-A. Serban, Applications of fibre contraction principle to some classes of functional integral equations, Fixed Point Theory (ISSN: 1583-5022, IF: 1.396), 23 (2022) no. 1, 279-292.
- Novac, **D. Otrocol**, D. Popa, Ulam stability of a linear difference equation in locally convex spaces, Results Math. (ISSN: 1422-6383, IF= 2.214), 76, 33 (2021).
- V. Ilea, A. Novac, **D. Otrocol**, R. Precup, Solutions with a prescribed interval of positivity for differential systems with nonlocal conditions, Appl. Math. Comput. (ISSN: 0096-3003, IF: 4.397), 375 (2020), 15, 125092.
- V. Ilea, **D. Otrocol**, On the Burton method of progressive contractions for Volterra integral equations, Fixed Point Theory (ISSN: 1583-5022, IF: 1.396), 21 (2020), No. 2, 585-594.
- **D. Otrocol**, M.-A. Serban, An efficient step method for a system of differential equations with delay, Journal of Applied Analysis and Computation (ISSN: 2156-907X, IF: 1.429), 8 (2018), No. 2, 498-508.
- **D. Otrocol**, Systems of functional-differential equations with maxima, of mixed type, Electron. J. Qual. Theory Differ. Equ. (ISSN: 1417-3875, IF: 1.316), 2014, No. 5, 1-9.
- T. Catinas, **D. Otrocol**, Iterates of Bernstein type operators on a square with one curved side via contraction principle, Fixed Point Theory (ISSN: 1583-5022, IF: 1.396) 14(2013), no.1, 97-106.
- **D. Otrocol**, V.A. Ilea, Ulam stability for a delay differential equation, Central European Journal of Mathematics (ISSN: 1895-1074, IF: 0.489) 11(7) (2013), 1296-1303
- **D. Otrocol**, I. A. Rus, Functional-differential equations with “maxima” via weakly Picard operators theory, Bull. Math. Soc. Sci. Math. Roumanie (ISSN: 1220-3874, IF: 0.232), 51(99) (2008), No. 3, pp. 253-261.
- **D. Otrocol**, I. A. Rus, Functional-differential equations with maxima of mixed type, Fixed Point Theory (ISSN: 1583-5022, IF: 1.396), 9 (2008), No. 1, pp. 207-220.

Projects Member in 2 research projects

- Efficient numerical methods, with applications on supercomputers, MEdC, Contract 2-CeX-06-11-96, 2006-2008;
- Approximation techniques, numerical and statistical calculation, CNCSIS, Contract Tip A, Cod 355, 2004-2006.

Conferences Participations at 30 national and international conferences

Research Groups

- Member in “**Numerical analysis and approximation theory group**” at Tiberiu Popoviciu Institute of Numerical Analysis, Romanian Academy, Cluj, <http://ictp.acad.ro/ro/personal/>
- Member in the research group „**Nonlinear operators and differential equations**”, Faculty of Mathematics and Computer Science, Babes-Bolyai University Cluj-Napoca, <http://www.math.ubbcluj.ro/~nodeacj/soned.html>

Lecturer PhD. Otrocol Diana Ioana



Date
7 June 2023