West University of Timişoara
Faculty of Mathematics and Computer Science
Department of Mathematics
Prof. Dr. Bogdan SASU

CURRICULUM VITAE

CONTACT INFORMATION

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EDUCATION AND DIPLOMAS

⋄ 1990 - 1995 B. Sc. in Mathematics with honors, Faculty of Mathematics, West University of Timişoara, Specialization *Mathematics*, overall average grade **9.97**, overall average grade at bachelor exam **9.96**, grade of the graduation thesis **10**.

⋄ M. Sc. with honors, Specialization Applied Mathematics in Fluid Mechanics at West University of Timişoara within the TEMPUS Program in collaboration with University of Nice-Sophia Antipolis, University Paris VI, University of Metz and University of Grenoble. The graduation thesis *L'étude de l'interaction onde de surface/onde interfaciale en prèsence de tensions superficielles* was elaborated at Institut Non Linéaire de Nice - Sophia Antipolis; overall average grade **10**, the grade at the dissertation exam **10**.

⋄ 01.12.1998 - 16.03.2002 Ph.D. in Mathematics with honors and distinction, West University of Timişoara, PhD Thesis: *The Asymptotic Behavior of Evolution Families*

HABILITATION

⋄ Habilitation Thesis: *On the Asymptotic Behavior of Dynamical Systems and Applications*, Babeş-Bolyai University, Cluj-Napoca, October 25, 2013.

⋄ Habilitation Certificate - awarded by OM 5633 / 11.12.2013.

⋄ PhD Advisor in Mathematics, Doctoral School of Mathematics, West University of Timişoara, starting with January 30, 2014.

PROFESSIONAL EXPERIENCE

◇ 01.10.2013 - present **Professor**, Department of Mathematics, Faculty of Mathematics and Computer Science, West University of Timişoara.

◇ 01.06.2007 - 30.09.2013 **Associate Professor**, Department of Mathematics, Faculty of Mathematics and Computer Science, West University of Timişoara.

◇ 01.10.2002 - 31.05.2007 **Lecturer**, Department of Mathematics, Faculty of Mathematics and Computer Science, West University of Timişoara.

◇ 01.10.1998 - 30.09.2002 **Teaching Assistant**, Chair of Analysis, Faculty of Mathematics, West University of Timişoara.

◇ 01.10.1995 - 30.09.1998 **Instructor**, Chair of Analysis, Faculty of Mathematics, West University of Timişoara.

MANAGERIAL ACTIVITIES

◇ 15.12.2011 - present **Director** of the Department of Mathematics from Faculty of Mathematics and Computer Science, West University of Timişoara.

◇ March 2012 - present **Director** of the *Research Center in Qualitative Theory of Systems with Applications in Control Problems* from West University of Timişoara.

Research projects as project leader

◇ **Director** of the Exploratory Research Project *Qualitative Properties of Dynamical Systems and Applications to Control Theory*, grant PN II IDEI 1081, CNCSIS code 550/2009, financed by UEFISCSU/UEFISCDI, period: 2009-2011. The main results of the project were published in 21 articles in prestigious ISI journals with important (high) impact factors.

◇ **Director** of the Excellence Research Project *Dynamical Systems and Applications in Infinite Dimensional Spaces*, CEEX grant ET No. 4/2006, financed by MEdC-UEFIS CSU, period: 2006-2008.

◇ **Director** of the research project *Mathematical Modelling and Qualitative Properties of Dynamical Systems*, CNCSIS AT grant No. 50/2006, financed by MEdC-ANCS, year 2006.

Team member in charge with the periodic reports

◇ Member in charge with the annual report/official documents of the Exploratory Research Project *Advanced Research Studies on the Asymptotic Behavior of Evolution Equations*, grant PN II IDEI 1080, CNCSIS code 508/2009, financed by UEFISCSU/UEFISCDI, period: 2009-2011

◇ Member in charge with the annual report/official documents of the research contract *Asymptotic Behavior of Deterministic and Stochastic Evolution Equations in Infinite Di-*

mensional Spaces, CNCSIS grant A, code 1379, financed by MEdC-UEFISCSU, period: 2005-2007

◇ Member in charge with the annual report/official documents of the research contract *Qualitative Properties of Evolutionary Processes with Control in Banach Spaces*, CNCSIS grant A, CNCSIS codes: 246/2002, 249/2003, 249/2004, financed by MEdC-UEFISCSU, period: 2002-2004

◇ Member in charge with the annual report/official documents of the research contract *Asymptotic Behavior of Control Systems in Infinite Dimensional Spaces*, CNCSIS grant A, CNCSIS codes: 21/1999, 849/2000, 305/2001, financed by MEdC-UEFISCSU, period: 1999-2001

SCIENTIFIC ACTIVITY

Research areas

◇ the asymptotic behavior of dynamical systems and evolution equations

◇ qualitative theory of discrete dynamical systems and difference equations

◇ control theory

Publications

◇ over 90 articles in pure and applied mathematics

◇ **56** articles in *Web of Science Core Collection (Clarivate Analytics)*, **57** articles in *Scopus* and **84** articles in *Mathematical Reviews.*

◇ 3 mathematical monographs and 3 lecture notes.

◇ 2 chapters in books edited by prestigious publishers (Cambridge Scientific Publishers, INTECH Austria).

◇ **443 citations** without self-citations in Web of Science and over **490 citations** without self-citations in Scopus;

◇ **1588 citations** in Google Scholar, **665 citations** in Mathematical Reviews;

◇ **h-index = 18** (Web of Science Clarivate Analytics), **h-index=18** (Scopus).

◇ **h-index = 23**, **i-10 index = 51** (Google Scholar).

◇ **Web of Science Researcher ID**: https://www.webofscience.com/wos/author/record/1160262

◇ **Scopus ID**: https://www.scopus.com/authid/detail.uri?authorId=6603370753

◇ **ORCID**: http://orcid.org/0000-0003-2411-1971

◇ **Google Profile**: https://scholar.google.ro/citations?user=x3yg5moAAAAJ&hl=en

Scientific Societies

◇ Member of international societies:

- ○ *International Society of Difference Equations* (invited member since 2005)
- ○ *American Mathematical Society* (since 2006)
- ○ *European Mathematical Society* (since 2006)

◇ Member of the *Academy of Romanian Scientists* (since 2016); Corresponding Member since 2022.

◇ Member of the *Romanian Mathematical Society* (since 1998).

Research projects:

◇ 3 research projects as project leader.

◇ 12 research projects as team member (at 4 projects in charge with the periodic reports).

Research Centers

◇ Member of the *Research Center in Qualitative Theory of Systems with Applications in Control Problems*, West University of Timişoara (since 2010).

◇ Scientific Coordinator of the *Seminar of Asymptotic and Geometric Behaviour of Dynamical Systems* within the Research Center in Qualitative Theory of Systems with Applications in Control Problems.

◇ Member of the *Research Center in Analysis and Geometry*, Department of Mathematics, West University of Timişoara, period 2004–2010.

Research Visits / Invited Professor

◇ 16.07.2009 - 02.08.2009 Invited researcher at Laboratory J. A. Dieudonné, University of Nice-Sophia Antipolis, France.

◇ 27.06.2008 - 17.07.2008 Invited researcher at Laboratory J. A. Dieudonné, University of Nice-Sophia Antipolis.

◇ 18.09.2007 - 05.10.2007 Research visit at Laboratory J. A. Dieudonné, University of Nice-Sophia Antipolis.

◇ 18.06.2007 - 29.06.2007 Research visit at Institute Galilée, University Paris XIII.

◇ 10.07.2006 - 07.08.2006 Research visit at Laboratory J. A. Dieudonné, University of Nice-Sophia Antipolis.

◇ 28.06.2005 - 07.07.2005 Research visit at Department of Mathematics, University of Metz.

◇ 20.05.2001 - 30.09.2001 O.N.B.S.S. Scholarship postgraduate studies (PhD studies) financed by Romanian Government at Laboratory J. A. Dieudonné, University of Nice-Sophia Antipolis.

◇ 20.09.2000 - 20.10.2000 Research visit at Laboratory J. A. Dieudonné, University of Nice-Sophia Antipolis.

◇ 15.03.1999 - 15.06.1999 Socrates Scholarship awarded in competition at Department of Functional Analysis, Technical University of Vienna, coordinator: Professor Heinz Langer.

◇ 15.06.1994 - 15.09.1994 TEMPUS Scholarship, specialization in hydrodynamics, at Institute Non Linéaire de Nice - Sophia Antipolis (INLN), coordinator: Professor Frédéric Dias.

Conferences - selection

International Conferences

◇ ICDEA 2024 - 29th International Conference on Difference Equations and Applications, Paris, France, July 24-28, 2024.

◇ RISMAA 2024 - Sixth Romanian Itinerant Seminar on Mathematical Analysis and its Applications, Babeş-Bolyai University, Cluj Napoca, Romania, May 30-31, 2024.

◇ ICDEA 2023 - 28th International Conference on Difference Equations and Applications, Phitsanulok, Thailand, July 17-21, 2023.

◇ Progress on Difference Equations - PODE 2023, Università Cattolica del Sacro Cuore, Milan, Italy, May 29-31, 2023.

◇ ICDEA 2022 - 27th International Conference on Difference Equations and Applications, Paris-Saclay, France, July 18-22, 2022.

◇ ICDEA 2021 - 26th International Conference on Difference Equations and Applications, Sarajevo, July 26-30, 2021.

◇ ICDEA 2019 - 25th International Conference on Difference Equations and Applications, London, United Kingdom, June 24-28, 2019.

◇ ICDEA 2018 - 24th International Conference on Difference Equations and Applications, Dresden, Germany, May 21-25, 2018.

◇ ICDEA 2017 - 23rd International Conference on Difference Equations and Applications, Timişoara, July 24-28, 2017.

◇ CMMSE 2014 - 14th International Conference on Computational and Mathematical Methods in Science and Engineering, Rota Cadiz, Spain, July 2-7, 2014.

◇ Joint International Meeting of the AMS and the Romanian Mathematical Society, Alba Iulia, June 27-30, 2013.

◇ ICNPAA 2012 World Congress - 9th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences, Vienna, July 10-14, 2012.

◇ CMMSE 2012 - 12th International Conference on Computational and Mathematical Methods in Science and Engineering, La Manga Murcia, Spain, July 2-5, 2012.

◇ ICNODEA 2011 - International Conference on Nonlinear Operators, Differential Equations and Applications, Cluj-Napoca, July 5-8, 2011.

◇ CMMSE 2011 - 11th International Conference on Computational and Mathematical Methods in Science and Engineering, Alicante, Spain, June 26-30, 2011.

◇ OT23 - 23rd International Conference on Operator Theory, Timişoara, 2010.

◇ ICNPAA 2008 - 7th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences, Genoa, Italy, June 25-27, 2008.

◇ ICTP 50 - International Conference Semicentennial „Tiberiu Popoviciu", Institute of Numerical Analysis, Cluj-Napoca, May 7-10, 2008.

◇ OT21 - 21th International Conference on Operator Theory, Timişoara, 2006.

◇ OT20 - 20th International Conference on Operator Theory, Timişoara, 2004.

◇ OT19 - 19th International Conference on Operator Theory, Timişoara, 2002.

◇ ICNODEA 2001 - International Conference on Nonlinear Operators, Differential Equations and Applications, Cluj-Napoca, September 12-15, 2001.

National Conferences

◇ National Conference on Mathematical Analysis and Applications, Iaşi, 2007.

◇ National Conference on Mathematical Analysis and Applications, Timişoara, 2006.

◇ Conference of the Romanian Mathematical Society, 2005.

◇ Conference on Analysis, Functional Equations, Approximation Theory and Convexity - Tiberiu Popoviciu, Cluj-Napoca, 2004.

◇ National Conference on Mathematical Analysis and Applications, Cluj-Napoca, 2002.

◇ Conference on Analysis, Functional Equations, Approximation Theory and Convexity - Tiberiu Popoviciu, Cluj-Napoca, 2002.

◇ National Conference on Mathematical Analysis and Applications, Craiova, 2001.

◇ National Conference on Mathematical Analysis and Applications, Timişoara, 2000.

◇ Conference of the Romanian Mathematical Society, Craiova, 1999.

◇ Conference on Analysis, Functional Equations, Approximation Theory and Convexity - Tiberiu Popoviciu, Cluj-Napoca, 1999.

◇ National Conference on Mathematical Analysis and Applications, Timişoara, 1998.

Awards

◇ *„Mihail Ghermănescu" Award for Mathematics and Computer Science* on the occasion of the Excellence Gala of West University of Timişoara, November 2021.

◇ *Award for Scientific Activity* (West University of Timişoara, 2002).

◇ *Diploma* for special achievements as project leader (2010).

DIDACTIC ACTIVITY

Courses at undergraduate programs

◇ Mathematical Analysis 1, Mathematical Analysis 2, Convex Analysis, Computational Analysis, Discrete Dynamical Systems, Qualitative Theory of Linear Control Systems.

Seminars and laboratories at undergraduate programs

◇ Mathematical Analysis 1, Mathematical Analysis 2, Mathematical Analysis 3, Convex Analysis, Computational Analysis, Discrete Dynamical Systems, Qualitative Theory of Linear Control Systems, Real Analysis, Complex Analysis, Functional Analysis, Topology and Real Functions.

Courses at master programs

◇ Program *Analytic and Geometric Modeling of Systems*: Linear Control Systems, Nonautonomous Systems with Control / Nonautonomous Control Systems, Variational Control Systems, Evolutionary Processes with Control.

Seminars at master programs

◇ Program *Analytic and Geometric Modeling of Systems*: Linear Control Systems, Nonautonomous Systems with Control / Nonautonomous Control Systems, Variational Control Systems, Evolutionary Processes with Control.

Courses and seminars at doctoral school

◇ Courses at *Doctoral School of Mathematics*: Asymptotic Behavior of Variational Systems

◇ Seminars at *Doctoral School of Mathematics*: Asymptotic Behavior of Variational Systems

Didactic publications: 3 lecture notes, 3 monographs for master and PhD students and 4 collections for students.

◇ 2008 - present **Director/ in charge** of the master program *Analytic and Geometric*

Modeling of Systems from West University of Timişoara.

OTHER ACTIVITIES

Editorial Activity

◇ Member of the **Editorial Board** of the journal *Annals of the Academy of Romanian Scientists - Series on Mathematics and Its Application*, since December 2018.

◇ 1998- present Member of the **Editorial Board** of the journal *Annals of West University of Timişoara - Mathematics and Computer Science* and Editor-in-Chief in the period March 2012 - February 2022.

◇ Invited Editor - Carpathian Journal of Mathematics 38 (2002), no. 3 *Special issue dedicated to Professor Emeritus M. Megan on the occasion of his 75th anniversary*, Invited Guest Editors A. L. Sasu, B. Sasu https://semnul.com/carpathian/issue-3-2022/

◇ **Co-Editor** of the *Proceedings of the 8th National Conference of Mathematical Analysis and Applications - CAMA 2006, Timişoara 1–2 December 2006*, West University of Timişoara Annals, Mathematics and Computer Science Series 45 (2007), fasc. 1 (277 pages) and fasc. 2 (249 pages), Editors D. Gaşpar, A. L. Sasu, B. Sasu.

Reviewer/referee

◇ **Reviewer** for *Mathematical Reviews* and *Zentralblatt für Mathematik* since 2005.

◇ **Referee** - selection: *Journal of Mathematical Analysis and Applications*, *Discrete and Continuous Dynamical Systems-B*, *Nonlinear Analysis Series A: Theory, Methods and Applications*, *Applied Mathematics Letters*, *Journal of Difference Equations and Applications*, *Proceedings of Edinburgh Mathematical Society*, *Monatshefte für Mathematik*, *IMA Journal of Mathematical Control and Information*, *Electronic Journal of Qualitative Theory of Differential Equations*, *Advances in Difference Equations*, *Abstract and Applied Analysis*, *Fixed Point Theory*, *Operator Theory: Advances and Applications*, etc.

Evaluator

◇ 2024-present Member of the Commission of Mathematics of CNATDCU - National Council for Attestation of Academic Titles, Diplomas and Certificates at Ministry of National Education and Scientific Research.

◇ 2017-2020 President of the Appeal Committee of Mathematics at CNATDCU - National Council for Attestation of Academic Titles, Diplomas and Certificates at Ministry of National Education and Scientific Research.

◇ January 2015 - May 2016 Member of the Commission of Mathematics of CNATDCU - National Council for Attestation of Academic Titles, Diplomas and Certificates at Ministry of National Education and Scientific Research, according to OM 3050/09.01.2015 and OM 3019/11.01.2016.

⋄ Member of selection commissions for permanent positions of Professors and Associate Professors at: Babeş-Bolyai University Cluj-Napoca, University of Bucharest, West University of Timişoara.

⋄ Member of Habilitation Commissions at University of Bucharest, Babeş-Bolyai University Cluj-Napoca, Politehnica University of Bucharest and Technical University of Cluj-Napoca.

⋄ Member of PhD Commissions (for public presentations of doctoral theses) at West University of Timişoara and University of Bucharest.

⋄ Member of the Selection Committee for the *Traian Lalescu Award for Mathematics and Natural Sciences* at Banat Excellence Gala, Editions: 2014 and 2015.

⋄ Evaluation expert - member of the National Register of Experts (2005-2009).

⋄ **External reviewer** for: 2017 Regular Research Funding Competition, National Fund for Scientific and Technological Development (FONDECYT) of the Chilean Government Commission for Scientific and Technological Development (CONICYT).

Accreditation of study programs

⋄ 2024 In charge/representative at the evaluation visit of ARACIS in order to accredit the master domain *Mathematics* and the study program *Financial Mathematics*, which were reaccredited by ARACIS.

⋄ 2023 In charge/representative at the evaluation visit of ARACIS in order to accredit the undergraduate programs *Mathematics Informatics* and *Mathematics*, which were reaccredited by ARACIS in June/October 2023.

⋄ 2021 In charge with the research center in Mathematics/representative at the evaluation visit of ARACIS in order to accredit the doctoral domain *Mathematics*.

⋄ 2019 In charge/representative at the evaluation visit of ARACIS in order to accredit the master domain *Mathematics* and the study program *Analytic and Geometric Modeling of Systems*, which were both reaccredited by ARACIS in March 2019.

⋄ 2018 In charge/representative at the evaluation visit of ARACIS in order to accredit the undergraduate program *Mathematics Informatics*, which was reaccredited by ARACIS in May 2018.

⋄ 2014 In charge/representative at the evaluation visit of ARACIS in order to accredit the undergraduate programs *Mathematics* and *Mathematics Applied*, which were reaccredited by ARACIS.

⋄ 2013 In charge/representative at the evaluation visit of ARACIS in order to accredit the undergraduate program *Mathematics Informatics*, which was reaccredited by ARACIS.

⋄ In charge with the accreditation/evaluation documents of the master program *Analytic and Geometric Modeling of Systems* (since 2007).

◇ In charge with the accreditation/evaluation documents of the master program *Operator Models Applied in Optimal Control (and Differential Geometry)* (2002-2007).

◇ In charge with the founding documents for *Research Center in Qualitative Theory of Systems with Applications in Control Problems*, West University of Timişoara, 2010.

◇ In charge with the accreditation/evaluation documents for *Research Center in Analysis and Geometry* (2004-2010), West University of Timişoara, director: Professor D. Gaşpar.

Organizer of scientific events

◇ **Main Organizer** of ICDEA 2017 - The 23rd International Conference on Difference Equations and Applications, July 24-28, 2017, West University of Timişoara, Romania: https://icdea2017.uvt.ro/

◇ Organizer and coordinator of the exploratory workshop WE: Dynamical Systems. Theory and Applications (Sisteme dinamice. Teorie şi aplicaţii) within the Diaspora Conference entitled *Diaspora Conference in Scientific Research in Higher Education in Romania* (Conferinţa Diaspora în Cercetarea Ştiinţifică în Învăţământul Superior din România), Timişoara, April 25-28, 2016.

◇ Member of the Scientific Committee of the *Romanian Itinerant Seminar on Mathematical Analysis and its Applications* (RISMAA) 2018-present.

◇ Member of the Scientific Committee of the *20th Annual Conference of the Romanian Mathematical Society* held in honor of the 80th anniversary of Emeritus Professor Ioan A. Rus, Baia Mare, May 19-22, 2016.

◇ Organizer of the intensive lectures for master students Shape Optimization Problems (October 31 - November 4, 2011) at West University of Timişoara, organized in collaboration with University of Savoia, University of Pisa and University of Grenoble.

◇ Organizer of the 8th National Conference of Mathematical Analysis and Applications, held in honor of the sixtieth anniversary of Professor M. Megan (2006).

◇ Member of the local organizing committee at the *19th International Conference on Operator Theory* and respectively at the *20th International Conference on Operator Theory.*

Prof. Dr. Bogdan Sasu

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