Curriculum Vitae (February 2026)

Adriana BUICĂ (Drăgăşani, November 25, 1971)

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Languages: Romanian, English, Spanish (written/spoken), Catalan, French, Italian (read)

ACADEMIC POSITIONS

Since 1995 I am working in the Department of Mathematics at Babeş-Bolyai University, in the following positions: Associate Professor (since February 2007); Lecturer (January 2002 – January 2007); Teaching Assistant (October 1995 – January 2002)

RESEARCH INTERESTS

Qualitative Theory of Differential Equations, Dynamical Systems, Operator Theory Periodic Solutions, Bifurcations, Averaging Methods

STUDIES AND DEGREES

2014 Habilitation in Mathematics, Babeş-Bolyai University

2000 PhD in Mathematics, Babeş-Bolyai University

1995 Licensed in Mathematics , Babeş-Bolyai University, Cluj-Napoca

1990 Secondary School Drăgăşani

RESEARCH VISITS (longer than 3 months)

2008 (3 months) Universitat de Lleida, Spain, MCYT/FEDER Grant

2007/2008 (5 months) Universitat de Lleida, Spain, Visiting Professor position

2005/2006 (10 months) Universitat Autònoma de Barcelona, Spain, AUF grant

2003/2004 (18 months) Centre de Recerca Matemàtica, Barcelona, Spain, MECD grant

SHORT RESEARCH VISITS

2026, 2024, 2022, 2020, 2016, 2011, 2008, 2007, 2005, 2004 (few weeks) Universitat Autònoma de Barcelona, Spain

2019 (two weeks) Shanghai Jiao Tong University, China

2018, 2016, 2015, 2014, 2013, 2012, 2010, 2009 (few weeks) Universitat de Lleida, Spain

2015 (two weeks) Plymouth University, United Kingdom

2011 (two weeks) Imperial College London, United Kingdom

2008 (one week) UNED Madrid, Spain

2007 (one week) Universidad de Granada, Spain

2005 (two months) University of Würzburg, Germany, DAAD grant

2003 (one month) Institut Henri Poincaré, Paris, France, ERCOM exchange

TEACHING ACTIVITY

I have been teaching the following subjects (theory and problems) since 1995: Calculus, Ordinary Differential Equations, Dynamical Systems, Sobolev Spaces, Partial Differential Equations, Biomathematics, Fixed Point Theory

MEMBER IN DOCTORAL COMMITTEES

2019 Lorand Parajdi, Babeş-Bolyai University (Romania)
2015 Rizgar Hagi, Plymouth University (United Kingdom)

2013 Oana Maria Mleşniţe, Babeş-Bolyai University (Romania)

2013 Elísabet Vela, Universidad de Sevilla (Spain)

2010 Cecilia Crăciun, Babeş-Bolyai University (Romania)

2010 Mircea Rus, Babeş-Bolyai University (Romania)

2008 Susanna Maza, Universitat de Lleida (Spain)

MEMBER IN INTERNATIONAL RESEARCH TEAMS

2018-2020 MTM2017-84383-P (MICINN, Spain); Director: Prof. Dr. M. Grau
Orbitas periódicas e integrabilidad en sistemas diferenciales continuos

2015-2017 MTM2014- 53703-P (MICINN, Spain); Director: Prof. Dr. M. Grau
Métodos cualitativos en sistemas diferenciales continuos

2012-2014 MTM2011-22877 (MICINN, Spain) ; Director: Prof. Dr. I. A. García
Bifurcaciones, integrabilidad y propiedades cualitativas de familias de campos vectoriales
2010-2012 Grant 2009SGR381 (CIRIT, Catalonia) ; Director: Prof. Dr. J. Giné
Métodos cualitativos en las ecuaciones diferenciales
2009-2011 MTM2008-00694 (MCYT, Spain); Director: Prof. Dr. J. Giné
Métodos cualitativos e integrabilidad en las ecuaciones diferenciales en el plano

MEMBER IN NATIONAL RESEARCH TEAMS

2019-2022 PN-III-P1-1.1-TE-2019-1306; Director: Conf. Dr. Adriana Nicolae
Optimizare şi sisteme dinamice: tehnici geometrice şi bazate pe logică

2012-2018 PN-II-ID-PCE-2011-3-0094; Director: Prof. Dr. Radu Precup
Metode operatoriale pentru sisteme neliniare şi aplicaţii

2005-2008 CNCSIS 187/2005-2008; Director: Prof. Dr. Adrian Petruşel
Sisteme dinamice

2004-2006 CNCSIS 345/2004-2006; Director: Prof. Dr. Radu Precup
Operatori neliniari şi ecuaţii cu derivate parţiale

2001-2002 ANSTI A09/2001; Director: Lect. Dr. Andras Domokos
Analiza matematică a unor procese evolutive cu memorie

2000-2003 CNCSIS 261/2000 351/2001; Director: Prof. Dr. Radu Precup
Probleme neliniare cu valori pe frontieră şi aplicaţii

1999-2001 BM 159/1999-2001; Director: Prof. Dr. Ioan A. Rus
Operatori neliniari şi ecuaţii diferenţiale

EDITOR, REVIEWER, EVALUATOR

Editor at *Fixed Point Theory* (from 2020);
Managing Editor at *Fixed Point Theory* (2000–2020);
Reviewer for Mathematical Reviews and Zentralblatt MATH;
External evaluator of a scientific project for FONDECYT (Fondo Nacional de Desarrollo Científico y Tecnológico) Chile;
Referee at various mathematical journals

ORGANIZATION OF INTERNATIONAL MEETINGS

Member in the Scientific Committee of the "XVI edition of the French-Romanian conference on Applied Mathematics", August 2024 Bucharest, Romania.

Member in the Organizing Committee of the "International Conference on Nonlinear Operators, Differential Equations and Applications", in July 2015, July 2011, July 2007, August 2004, Cluj-Napoca, Romania;

Co-organizer of the special session "Periodic solutions for dynamical systems" within "The 10th AIMS Congress on Dynamical Systems, Differential Equations and Applications", July 2014, Madrid, Spain.

TALKS IN SEMINARS AND CONFERENCES

<u>Talks in international conferences</u>

Fifth Symposium on planar vector fields, January 2026, Universitat de Lleida, Spain.
`https://www.gsd.uab.cat/symp2026/`

Worshop on dynamical systems, January 2024, Universitat de Lleida, Spain.

Advances in qualitative theory of differential equations, February 2023, Universitat des Iles Balears, Spain.

Second virtual workshop on dynamical systems, November 2021, University of Sao Paolo, Brasil

International Conference on Difference Equations and Applications, 24–28 July 2017, Timişoara, Romania

Fourth symposium on planar vector fields, 5–9 September 2016, Lleida, Spain

International Conference on Nonlinear Operators, Differential Equations and Applications, 14–17 July 2015, Cluj-Napoca, Romania -

Congreso Real Sociedad Matemática Espannñola, 2–6 February 2015, Granada, Spain

Workshop on slow-fast dynamics: theory, numerics, applications to life and earth sciences, 3–7 June 2013, Barcelona, Spain

New trends in dynamical systems, 1–5 October 2012, Salou, Spain

International Conference on Differential Equations (EquaDiff 2011), 1–5 August 2011, Loughborough, United Kingdom

International Conference on Nonlinear Operators, Differential Equations and Applications, 5–8 July 2011, Cluj-Napoca, Romania

Dynamical Days, 4–6 November 2010, Calatayud, Spain

Third symposium on planar vector fields, Universitat de Lleida, Spain, 2010.

Singularités des champs de vecteurs du plan. Bifurcations et applications, Centre International de Rencontres Mathématiques, 2009, Marseille, France

Workshop on Resonance Oscillations and Stability of Nonsmooth systems, 16–25 June, Imperial College London, United Kingdom

Mathematical Models in Engineering, Biology and Medicine. Conference on Boundary Value Problems, 16–19 September 2008, Santiago de Compostela, Spain

International Conference Semicentennial Tiberiu Popoviciu Institute of Numerical Analysis, 7–10 May 2008, Cluj-Napoca, Romania

International Conference on Nonlinear Operators, Differential Equations and Applications, July 2007, Cluj-Napoca, Romania

International Conference on Topological Methods, Differential Equations and Dynamical Systems, 13–16 June 2007, Firenze, Italy

International Conference on Nonlinear Operators, Differential Equations and Applications, August 2004, Cluj-Napoca, Romania

NoLineal, June 2004, Toledo, Spain

Recent Trends in Dynamics, July 2003, Porto, Portugal

Third International Conference on Applied Mathematics, October 2002, Baia-Mare, Romania

Theodor Angheluţă Conference, June 2002, Băişoara, Cluj, Romania

4$^{\text{éme}}$ Colloque Franco-Roumain de Mathématiques Appliquées, September 1998, Metz, France

Students Conference, April 1995, Gödölö, Hungary.

Seminar Talks:

The international online seminar of GSD-UAB, Centre de Recerca Matemàtica, Barcelona, Spain (march 2021)

Shanghai Jiao Tong University, China, September 11, 2019

Universidad de Sevilla, Spain, July 2013

Imperial College London, United Kingdom, July 2011

UNED Madrid, Spain, 2008

Universitat Autònoma de Barcelona, Spain, 2007, 2006, 2005, 2004, 2003

Universidad de Granada, Spain, 2007

Universitat de Lleida, Spain, 2007

University of Stuttgart, Germany, 2005

University of Würzburg, Germany, October 2000.

Conf. Dr. Adriana Buică