

## CURRICULUM VITAE<sup>1</sup>

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### EDUCATION.

- Graduated- Faculty of Mathematics, University of Bucharest, 1994.
- Master Degree in Harmonic Analysis, Faculty of Mathematics, University of Bucharest, 1995.
- Ph. D. in Partial Differential Equations, University of Bucharest, 2005. Thesis: *Inverse scattering problems for stratified media*. Adviser Prof. V. Iftimie

### PROFESSIONAL CAREER.

#### Employment.

- 1995–1999: research assistant, Institute of Mathematics of the Romanian Academy;
- 1999–2005: scientific researcher, Institute of Mathematics of the Romanian Academy.
- 2005– : scientific researcher III, Institute of Mathematics of the Romanian Academy.

#### Research visits.

- CMI Marseilles (France) (1999)
- Osaka University, Kiryu University (Japan) (2000),
- CPT Marseilles (France) (2001, 2002)
- Institute for Electrosiences, Lund (Sweden) (2006; supported by Short Visit Grant 1006, within the SPECT Programme, ESF)
- Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas, UNAM (Mexico) 2008.
- Departament of Mathematics, Facultad de Ciencias, Universidad de Chile (Chile) 2010.

**Visiting position.** Ålborg University (May 2001)

#### Lectures in International Meetings.

- *Spectral theory for Schrödinger operators with boundary conditions on a half-space*: Workshop New results in quantum mechanics and related topics (September 1998, Bucharest)
- *Inverse scattering problems for layered media*: Summer School New Analytic and Geometric Methods in Inverse Problems (July 2000, Heriot-Watt University, Edinburgh).
- *On an abstract radiation condition*: Workshop Spectral and Scattering Theory and Related Fields (RIMS Kyoto, 2000).
- *Mourre theory and inverse scattering problems for layered media*: Mini-Workshop in Mathematical Physics, Århus University (May 29, 2001).
- *Inverse scattering problems for Schrödinger operators with magnetic fields*. Workshop Quantum Hamiltonians with Magnetic Fields (Bucharest, 8 - 14 September 2002).

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<sup>1</sup>Last updated on January 20, 2011

- *Multilinear estimates in backscattering theory*: Conference Operator Theory, Analysis and Mathematical Physics OTAMP 2006 (15–22 June 2006, Lund).
- *$L^2$ -Sobolev estimates for the backscattering transformation*: QMath10 Conference, Moieciu (September 2007).
- *Local smoothing for the backscattering transform*. Second International Conference on Pseudo-Differential Operators and Related Topics, Växjö (June 2008).
- *Magnetic Weyl calculus on coadjoint orbits of some semidirect products of Lie groups*. Generalized Functions GF2009, Wien (31 August– 04 September 2009).
- *Weyl-Pedersen calculus on coadjoint orbits of nilpotent Lie groups*. 10-ème Colloque Franco-Roumaine de Mathématiques Appliquées, 26–31 August 2010, Poitiers.

#### Participation in other professional meetings.

- 2nd Operator Algebras and Mathematical Physics Conference, June 26 – July 4, 2003, Sinaia.
- Perspectives in Inverse Problems, 31 May–5 June 2004, Helsinki.
- 6th Operator Algebras International Conference: Operator Algebras and Mathematical Physics-3, August 10–17, 2005, Bucharest.
- Workshop: Mathematical Models for Transport in Macroscopic and Mezosopic Systems Bucharest January 29–February 1, 2005.
- 7th International Conference on Function Spaces, Differential Operators and Nonlinear Analysis, August 25–29, 2008, Helsinki.

**Publications.** : 16 published papers and 2 preprints

VARIOUS.

- *Languages*: English, French, Swedish (read).
- *Translations*:
  - *Analiză Convexă* (Convex Analysis), by R. Tyrrell Rockafellar, Texte Matematiche Esentiale, Theta, Bucuresti 2002 (with D. Belitiță).
  - *Analiză Matriceală* (Matrix Analysis), by Roger A. Horn, Charles R. Johnson, Texte Matematiche Esentiale, Theta, Bucuresti 2001 (with D. Belitiță, R.-N. Gologan)
- *Local organizer* (together with G. Nenciu and R. Purice) of the QMath10 Conference in Moieciu
- *Editor* (together with G. Nenciu and R. Purice) of the volume *Mathematical results in quantum mechanics*. Proceedings of the QMath10 conference, Moieciu, Romania, 10–15 September 2007. Hackensack, NJ: World Scientific. (2008).
- *Reviews* for MathSciNet - Mathematical Reviews, Revue Roumaine des Mathematiques Pures et Appliquées.