

# Dr Radu Tanasa

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## Work Experience

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- 2014-2017 **Research associate**  
University of Cambridge, Department of Engineering  
Trumpington Street, CB2 1PZ, Cambridge, United Kingdom
- 2013-present **Lecturer**  
"Alexandru Ioan Cuza" University of Iasi, Department of Physics  
Bd. Carol I, 700506, Iasi, Romania
- 2008-13 **Assistant professor**  
"Alexandru Ioan Cuza" University of Iasi, Department of Physics  
Bd. Carol I, 700506, Iasi, Romania
- 2010-12 **Postdoctoral fellow**  
"Alexandru Ioan Cuza" University of Iasi, Department of Physics  
Bd. Carol I, 700506, Iasi, Romania  
*Project title:* "Switching in highly correlated hysteretic systems" (CORELSYS)
- 2005-08 **Teaching Assistant**  
"Alexandru Ioan Cuza" University of Iasi, Department of Physics  
Bd. Carol I, 700506, Iasi, Romania

## Education

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- 2004 - 06 **PhD, Molecular magnetism – photoswitchable materials**  
Versailles Saint Quentin en Yvelines University, Groupe d'Etude de la Matiere Condensee – GEMAC, Distinction: *Tres honorable avec felicitations du jury*  
*Thesis: Analysis and study of the hysteretic properties in thermo- piezo- and photo-switchable spin-transition compounds*
- 2002 - 07 **PhD, Magnetism of nano-structures**  
"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics, Distinction: *Summa cum laude*  
*Thesis: Contributions to the study of magnetization processes in structured particulate ferromagnetic media*
- 2002 - 04 **Master Degree in Physics**  
"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics
- 1998 - 02 **Bachelor Degree in Physics**, Specialization: *Physics*  
"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics

## Awards

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- 2008 **Prize** for *best research group from a Romanian University* awarded by National Authority for Scientific Research (ANCS - Romania) at the "Top of excellence in research" contest
- 2007 **Excellence prize** for *outstanding contributions in physics of magnetic nanostructures* from National science and art foundation of Romanian Academy
- 2007 **European Doctorate in Molecular Magnetism diploma** awarded by MAGMANet (Molecular Approach to Nanomagnets and Multifunctional Materials – FP6 NoE 515767-2)

## Research funding

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### Romanian CNCS (National Research Council) Grant PN-II-RU-PD-2009-1

'Switching in highly correlated hysteretic systems (CORELSYS)'  
80000 EURO (24 months from 1/8/2010)

### Romanian CNCSIS (National University Research Council) TD grant

'Statistical interactions study in ordered nanomagnetic systems like perpendicular recording media'  
6000 EURO (36 months from 1/1/2004)

### French Minister of Research (Ministere délégué a la recherche) grant

'Analysis of hysteresis in spin crossover solids'  
3000 EURO (12 months from 1/10/2005)

Apart from these 3 individual research grants, I have been also team member in 8 international grants and in 25 Romanian research projects.

## Publications & conferences (statistics)

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37 total publications, 17 first / corresponding author refereed publications

*h*-index 13

citations > 400

3 co-author book chapters

conferences presentations > 90 (> 20 invited & oral)

Web profile: [www.researcherid.com/rid/B-4904-2008](http://www.researcherid.com/rid/B-4904-2008)      <http://stoner.phys.uaic.ro/rtanasa.html>

## Research skills

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### Experimental

- Magnetic characterization: VSM / AGM, QD-MPMS
- Optical characterization: transmission spectroscopy, reflectivity under pressure
- Cryogenic closed circuit systems: optical cryostat, Cryomech's 12 LHe plant
- Development of a magnetic tweezers for the study of rheology in biological tissues

### Modeling and simulation

- IT: Fortran, C++, Maple, COMSOL, LabView, Python, OpenCV
- Methods: Monte Carlo, micromagnetics, FFT, master equation

### Organisational

- Experience in scientific projects assessment (CNCSIS & UEFISCDI Romania, NSF Bulgaria)
- Member of the organizing comity of IEEE ROMSC conference (9 editions)
- Editorial Board of Journal of Advanced Research in Physics
- Development of a facility for spin transition materials' optical characterization

## Affiliations

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Institute of Electrical and Electronic Engineers IEEE - Magnetics Society (17 years) – **Senior member**

Romanian Physical Society

CARPAT Excellence Center - "Alexandru Ioan Cuza" University