



Curriculum vitae Europass



Personal Information

Name	Filip Xenia
Institutional Address	Molecular and Biomolecular Physics Department, National Institute for R&D of Isotopic and Molecular Technologies (INCDTIM), Donat Street, № 67 – 103, RO-400293, Cluj-Napoca, Romania
Phone, Fax	00-40-264-584037, ext. 182; 00-40-264-420042
E-mail	xenia.filip@itim-cj.ro
Citizenship	Romanian
Birthday	31.03.1968

Work experience

Dates	2011 - to date
Occupation or position held	Senior Researcher (CSII)
Name and address of employer	Molecular and Biomolecular Physics Department, National Institute for R&D of Isotopic and Molecular Technologies (INCDTIM), Donat Street, № 67 – 103, Ro-400293, Cluj-Napoca, Romania
Main activities and responsibilities	Research: structural characterization of Active Pharmaceutical Ingredients (APIs) by NMR crystallography; molecular modeling of physical properties in solids (DFT geometry optimization, chemical shift calculation)
Dates	2002 – 2011
Occupation or position held	Senior Researcher (CSIII)
Name and address of employer	Molecular and Biomolecular Physics Department, National Institute for R&D of Isotopic and Molecular Technologies (INCDTIM), Donat Street, № 67 – 103, Ro-400293, Cluj-Napoca, Romania
Main activities and responsibilities	Research: numerical simulations in high resolution NMR spectroscopy (Spinev, Sympton, Axiom); finite element simulations of heat transport in structured systems and devices
Dates	1999-2002
Occupation or position held	Junior Researcher (CS)
Name and address of employer	Molecular and Biomolecular Physics Department, National Institute for R&D of Isotopic and Molecular Technologies (INCDTIM), Donat Street, № 67 – 103, Ro-400293, Cluj-Napoca, Romania
Main activities and responsibilities	Research: double quantum coherences NMR methods for structural / dynamics investigations of elastomers; spin-dynamics investigated by EPR

Dates	1995 - 1999
Occupation or position held	Research Assistant
Name and address of employer	Molecular and Biomolecular Physics Department, National Institute for R&D of Isotopic and Molecular Technologies (INCDTIM), Donat Street, № 67 – 103, Ro-400293, Cluj-Napoca, Romania
Main activities and responsibilities	Research: solid-state NMR experiments for investigating structure and molecular dynamics in organic compounds; thin films laser deposition

Dates	1992 – 1995
Occupation or position held	<i>Graduate assistant</i>
Name and address of employer	Technical University of Cluj-Napoca, „Centrul Universitar Nord Baia Mare”, Faculty of Sciences, 76 Victoriei Street, 430122 Baia Mare, Romania
Main activities and responsibilities	Teaching activities: Coordinating and conducting seminars and laboratories of electronics, mechanics and thermodynamics

Education and training

Dates	August 2013
Type of training	Workshop
Principal subject	CASTEP Training Workshop 2013
Name and type of organisation providing education training	St. Edmund Hall, A college of the University of Oxford, England

Dates	September 2009
Type of training	Workshop
Principal subject	Calculation of Solid-State NMR Parameters Using the GIPAW Method
Name and type of organisation providing education training	CECAM - Centre Européen de Calcul Atomique et Moléculaire Ecole Polytechnique Fédérale de Lausanne, Batochime (BCH), 1015 Lausanne, Switzerland

Dates	June – November 2002, July-September 2003
Type of training	Research stages – Humboldt Scholarship
Principal subject	Finite element simulations of heat transport in structured systems and devices using ANSYS software
Name and type of organisation providing education training	Ruhr University, Bochum, Germany

Dates	1994-2003
Title of qualification awarded	PhD
Principal subject/occupational skills covered	Solid State Nuclear Magnetic Resonance / double quantum coherences NMR methods for structural / dynamics investigations of elastomers

Name and type of organisation providing education training Babeş-Bolyai University, Faculty of Physics, 1 Kogălniceanu Street, Cluj-Napoca, Romania

Dates **1987-1992**

Title of qualification awarded Bachelor in Physics

Principal subject/occupational skills covered Physics / Solid State Physics

Name and type of organisation providing education training Babeş-Bolyai University, Faculty of Physics, 1 Kogălniceanu Street, Cluj-Napoca, Romania

Personal skills and competences

Mother tongue **romanian**

Other languages **English, french**

Self-assesment
European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(*)Common European Framework of Reference for Languages

Technical skills and competences Operating a Bruker NMR spectrometer

Computer skills **CASTEP, NMR CASTEP** – DFT geometry optimization and NMR chemical shift calculations in crystalline systems;
CONFORMERS – for conformer analyzing
Spinev, Sympson, Axiom - numerical simulations softwares in high resolution NMR spectroscopy
ANSYS - finite element simulations of heat transport
TOPSPIN (aquiring and analyzing NMR data), Origin (data interpretation)