

## Europass Curriculum Vitae



### Personal information

First name(s) / Maiden name / Surname(s) **Simona Cîntă Pînzaru**  
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 Nationality Romanian  
 Gender F

### Work experience

Assoc. Professor of Spectroscopy and Lasers, Optoelectronics, Nanomedicine and molecular Diagnostic, Applied Raman and IR spectroscopy in Biomedical Research; Academic research;

Dates 2003-present: Associate Professor, Biomolecular Physics Dept., Babes-Bolyai University, Cluj-Napoca, Romania; Research trajectory;  
 2014 (June)- 2016 (May): Senior researcher, Fellowship of NEWFELPRO Programme MSE/ FP7-Marie-Curie, for Experienced Researchers in Croatia;  
 2005 (Oct.-Dec.) Visiting scientist, Bayerische Julius-Maximilians-Universität Würzburg, Germany;  
 2004 (Sept.-Dec) Visiting scientist, Bayerische Julius-Maximilians-Universität Würzburg, Germany;  
 2003 (Sept-Dec.) Visiting scientist, Bayerische Julius-Maximilians-Universität Würzburg, Germany;  
 1998-2003: Lecturer, Molecular Spectroscopy Dept., Babes-Bolyai University  
 1996 Assoc. research assistant, Bayerische Julius-Maximilians-Universität Würzburg, Germany,  
 1996: Soros Fellowship , Assoc. research assistant, Bayerische Julius-Maximilians-Universität Würzburg, Germany;  
 1995-1998: Assistant professor, Molecular Spectroscopy Dept., BBU position gained in competition;  
 1992-1995: Associated assistant, Optical Spectroscopy Lab., Faculty of Physics, BBU;  
 1988-1995: Professor of Physics in high school, Cluj-Napoca, RO, gained in national competition;  
 1988-1990 Governmental allocation, High school teaching, Teleorman County, RO.

Occupation or position held 2003-present: Assoc. Professor, research trajectory, Biomolecular Physics Dept, BBU  
 Name and address of employer Babes-Bolyai University, Faculty of Physics, Biomolecular Physics Department, Cluj-Napoca, RO 400084

**Education and training**

Dates

1988: Graduated, Faculty of Physics, Babes-Bolyai University, Cluj-Napoca.  
 1988 Sept-1991 May) Physics teaching stage completed and certified.  
 1995-1998: Doctoral Program, Babes-Bolyai University;  
 1996: Soros fellow, PhD student, University of Würzburg, Germany;  
 1998: Doctoral Thesis: "Raman and SERS spectroscopic studies of the metal-adsorbed complex for the biological interest molecules"  
 1999, 2002, Erasmus-Socrates Fellowship, Post Doc at University of Würzburg, Germany;  
 1996 (Sept.-Dec)- Rsearch assistant, PhD student at *Bayerische Julius Maximilians Universitaet Würzburg*;  
 2011: Professional Education: Enrollment in *Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere „Calitate în învățământul superior”, proiect „Întărirea învățământului superior orientat spre competențe” (POSDRU/86/1.2/S/60281).*  
 2016 -Evaluator: Grants Competition for Young Researchers, (GTC-UBB 2016);  
 2016: Expert evaluator, European Commission, Program H2020 (expert EX2013D134729, Contract nr. CT-EX2013D134729-101, Contract nr. CT-EX2013D134729-103)  
 Expert Evaluator national grants;

Title of qualification awarded

Habilitation in Physics (Minister of National Education Order from 04.06.2018;  
 Doctor in Physics (1998) of Babes-Bolyai University, Cluj-Napoca, Romania  
 Licence in Physics (1988)  
 Operator in Nuclear Techniques and Technologies (High school qualification, 1984.

Principal subjects/occupational skills covered

Scientific research & Academic activity  
**Courses:** Spectroscopy and Lasers, Optoelectronics, Nanomedicine and Molecular Diagnostic, Optics, Vibrational spectroscopy methods –Biomedical Applications;  
**Research:** Applied spectroscopy; interface between living organisms and nanoparticles;  
 Research topics :SERS, Applied Raman spectroscopy techniques; Biomolecular physics, Raman techniques for nanomedicine, personalized diagnostic, pharmaceuticals, food control, molecular environmental research; Biophotonics; Fundamental research: light-matter interaction;

**Personal skills and competences**

Mother tongue(s)

**Romanian**

Other language(s)

English, German, Croatian, French

Self-assessment  
*European level (\*)*

**English**  
**German**  
**French**  
**Croatian**

Understanding		Speaking		Writing			
Listening		Reading		Spoken interaction		Spoken production	
	C2		C2		C2		C2
	B2		C1		B2		C1
	B2		C2		B1		B1
	B2		B2		B1		A2

(\*) [Common European Framework of Reference for Languages](#)

Organisational skills

Organiser / Coordinator of scientific meetings: workshops, conference ( *i.e. Workshop Bruker 2002 Cluj-Napoca; Workshop Witec 2008, Cluj-Napoca, Workshop Rigaku 2013, Cluj-Napoca; Workshop Rigaku 2014 “Shedding Laser light on the Adriatic Sea environment”-in cooperation with Rigaku Technologies Inc., 2014, Dubrovnik,Croatia; Workshop B&W TEK, 2015, Dubrovnik, Croatia;*  
 Member in the Organising Committee of the International Conference “Advanced Spectroscopies on Biomedical and Nanostructured Systems” Cluj-Napoca, 4 Editions: (Bio)NanoSpec 2004, 2006, 2008, 2011;  
 Member in the Local Scientific and Organising Committee of the EUCMOS 2012, Cluj-Napoca, RO.  
 Member in the International scientific Committee of ICOVS (2006, 2014, Meerut, India)

Projects management competences	JADRANSERS Project manager (2014-2016) NEWFELPRO -Marie Curie FP7-PEOPLE-2011-COFUND program of the Ministry of Science, Education. and Sports Croatia, grant agreement no. 291823, MSE; University of Dubrovnik; Coordination of research projects: PN_II_ID_2284/ 2008-2011; Grant Director Grant Director (1999-2002), World Bank Grant for Young Researchers BM-T 131; Grant Director CNCSIS –AT – 2000-2002. Member in other projects grants (CNCSIS type) teams - 2005, 2004, 2003, 2002; -Member in COST Action BM140; -Member in POC 2014 - 2020, ID P_40_374, Cod MySMIS: 105765, Beneficiary: BBU 3 international bilateral and institutional agreements, 4 interdepartmental agreements;
Technical skills and competences	Applied Raman spectroscopy; Experimental vibrational spectroscopy, Nanoparticles; SERS; – Developing Raman spectroscopy applications in biomedical, environmental and conservation-restoration field ; Pure and Applied SERS; (Nanomedicine; Pharmaceuticals; Food control; Environment, Cultural Heritage –assessment for conservation-restoration;
Prizes /Awards	The Prize of Babes-Bolyai University for the Excellence in Research, 2011 Poster prize, 5 <sup>th</sup> Summit of Clinical Nanomedicine, Clinam 2012, Basel; Nomination for <i>Dhamelincourt prize</i> , Paris, 2007 Prize “Excellentia”, 2015, of the Students Council of Babes-Bolyai University; Nomination Excellentia Prize for 2018.
Computer skills and competences	User; Microsoft office, specific scientific software, spectral data analysis;
Artistic, social skills and competences	Photography, holography, cultural heritage, Dalmatian tradition and music; Very good communication skills, teaming, public relations skills, media communication;
<b>Additional information</b>	<b>Publications:</b> 72 articles in ISI journals; 5 books/ book chapters; 49 published papers in national and other International journals (BDI); More than 200 contributions in proceedings / book of abstracts; conference programs, webinars; 15 invited lectures; 39 talks and oral presentations to international conferences and meetings; <b>Researcher ID: A-4543-2011</b> ; Profile URL: <a href="http://www.researcherid.com/rid/A-4543-2011">http://www.researcherid.com/rid/A-4543-2011</a> ORCID: <a href="http://orcid.org/0000-0001-8016-4408">http://orcid.org/0000-0001-8016-4408</a> Research Gate: <a href="https://www.researchgate.net/profile/Simona_Cinta_Pinzaru">https://www.researchgate.net/profile/Simona_Cinta_Pinzaru</a> <b>H index 17</b> (Scopus, Web of Science) (self-citations excluded); <b>Google Scholar H-index: 20</b> ; <b>Research topics:</b> Nanomedicine: nanosciences for the benefit of patient. Early cancer diagnostic using optical spectroscopy techniques, including Raman and SERS, combined with complementary techniques; Marine biotoxins: detection and molecular recognition; Food control, aquaculture and seafood characterization and monitoring, using ultrasensitive Raman techniques; Pharmaceuticals; <b>Professional Membership</b> European Technology Platform-Nanomedicine (ETPN); International Association of Physical Chemists (IAPC), European Physical Society (EPS); Romanian Society for Pure and Applied Biophysics (RSPAB); Member in the Editorial Board of the Journal of Spectroscopy , Member: Croatian Microbiological Society; <b>Peer Reviewer</b> in more than 15 ISI journals <b>ERASMUS Coordinator, Faculty of Physics, BBU</b> <b>Other academic activity:</b> member in admission panels, evaluation of doctoral theses (10) master dissertations, licence theses.

Cluj-Napoca, 28.06.2018

Simona Cîntă Pinzaru