

PERSONAL INFORMATION



Paul Vasos

📍 **Professor of Chemistry**
University of Bucharest
Research coordinator:
Biophysics and Biomedical Applications Laboratory and Group
Researcher ID: NIU-1203-2025
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Sex M | Date of birth 27/05/1977 | Nationality Romanian

POSITION WITHIN THE PROJECT

Professor

WORK EXPERIENCE

2021-present **Professor of Chemistry**
(2016- invited professor)
University of Bucharest, Interdisciplinary Ph. D. School, Ph.D. advisor

- Observing and imaging through spectroscopy
- Scientific projects writing
- Ethics and Academic Integrity
- Quantitative data analysis

Senior Researcher (since 2017)
Extreme Light Structure Nuclear-Physics (ELI-NP)

- Research team coordinator: Biophysics and biomedical applications laboratory and group: 3 junior researchers, 1 technician, 3 Ph.D. and 2 M.Sc. students

2010-2016 **Professor of Chemistry**
Paris Descartes University (Paris-V, now Univ. Paris Cité)

- Research team coordinator: research team composed of 2 Assistant Professors (Maitres de Conférences), 1 Research Engineer, 1 CNRS researcher, Post-Doc., PhD and MSc students;
- Coordinator of the Master-2 Program in *Spectroscopy towards Life Sciences, (Spectroscopie et Analyses vers le Vivant)* Paris Descartes; Teaching and coordination of teaching at various levels : Licence 2, MSc 1,2 (200h teaching /yr)

2008-2011 **Senior Researcher**
Ecole Polytechnique Fédérale de Lausanne

- Lecturer at BSc-2 and PhD level, with independent funding (Ambizione – Swiss National Science Foundation)

2005-2008 Post-Doctorate
 École Polytechnique Fédérale de Lausanne (EPFL)
 Post-doctorate in Prof. Geoffrey Bodenhausen's group

2004-2005 Post-Doctorate
 University of Maryland (College Park, Washington, DC)
 Post-doctorate in Prof. David Fushman's group

EDUCATION AND TRAINING

- 2000-2004 Ph.D. in Structural Biology *University of Florence, IT*
 (International Ph.D. awarded jointly by UniFi, the Univ. of Frankfurt and Univ. of Utrecht)
- Ph.D. thesis: *Physical methods for the study of the structure and stability of macromolecules: development of new NMR approaches and applications to metalloproteins*, University of Florence, (Prof. I. Bertini, Prof. C. Luchinat, Prof. I. Felli)
 - Training period at the Univ. of Utrecht (2003) – Prof. R. Boelens and Prof. A. Bonvin
- 1995-2000 Master in Physics of Atoms and Molecules
University of Bucharest
- MSc-2 thesis: *Structural modelling of Fe₂S₂ ferredoxins: an analysis of fold and function*, University of Bucharest and University of Florence, 2001 (Prof. I. Bertini, Prof. C. Luchinat, Prof. A. Rosato)
 - MSc-1 thesis: *Etude du dépliement de la beta-lactoglobuline par RMN*, Joseph Fourier University, Grenoble, University of Bucharest (Prof. V. V. Grecu, Prof. C. Palivan, Prof. J.-P. Cohen-Addad)

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	Enter level	Enter level	Enter level	Enter level	Enter level
English			C2		
French			C2		
Italian			C2		
Spanish			A2		
Greek			A1		

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ➤ 40 talks at international conferences (of which > 20 invited, 3 keynote lectures):

Organisational / managerial skills
 -Research group management (EPFL – as project PI, Univ Paris Descartes – as Professor and head of group, ELI-NP)
 Management of 10 scientific projects as Principal Investigator (> 5 MEur)
 - Partner PI in 14 financed projects (> 10 MEur)

Job-related skills Teaching, research team coordination

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
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Proficient user Proficient user Independent user Independent user Independent user

Linux platform	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Windows / MS Office	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Corel Draw	Independent user	Independent user	Independent user	Independent user	Independent user
Adobe Acrobat	Independent user	Independent user	Independent user	Independent user	Independent user
Adobe Photoshop	Independent user	Independent user	Independent user	Independent user	Independent user
OriginLab	Independent user	Independent user	Independent user	Independent user	Independent user
Matlab	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Mathematica	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Spin Dynamics	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

Other skills ▪ Project management, paper and project reviewer;

Driving licence B

ADDITIONAL
INFORMATION

- Project Management**
- 2024 - 2027 ELI-RO 2024_039 REMILASI Flash
- 2023 -2026 PI UEFISCDI-PCE: Magnetic resonance methods for new observation timescales in the detection of radiation dose-rate response (PN-IV-P1-PCE-2023-1836)
- 2020 -2023 PI UEFISCDI-PCE Biomarkers of radiation dose-rate (300 kEur)
- noted ‚Excellent’ in terms of obtained results by project funder (PN-III-P4-ID-PCE-2020-2642)
- 2019-2021 PI UEFISCDI-PED (collaboration with Amethyst Radiotherapy) (PN-III-P2-2.1-PED-2019-4212)
- 2017-2020 PI UEFISCDI PCE
- 2014 – 2016: PI *Enhanced nuclear magnetic resonance to follow biomolecules in complex environments: NMR@Com* - 300 kEur IdEx (‚Initiatives d’Excellence’, French Research Ministry);
- 2013 – 2015: PI *Polarisation nucléaire dynamique (DNP) et dissolution suivies par électroporation et RMN* - 100 kEur (Fondation pour la Recherche Médicale) ;
- 2008 – 2011: PI *Storing slow processes in spin memory: long-lived states* - Swiss National Science Foundation (SNSF) and EPFL;
- 2012 – 2015: PI *Longues durées de vie de l’aimantation et hyperpolarisation pour études RMN dans la cellule* - (DIM Analytics Reg Ile de France);
- 2011: ERC phase II project (fundable project – first 20 %);
- 2015 – 2016 : Hubert Curian Partnership, PHC BRANCUSI
- Partner in projects: French Equipex, IdeEx, Swiss National Science Foundation, Swiss Commission for Technology and Innovation, EUROHyperpol, PHC Brancusi, EU COST.
- Scientific Coordination**
- Post-doctorates:** Dr V. Nastasa, Dr Th Asavei, Dr A. Sadet, Dr R. Balzan (Université Paris Descartes),
- Ph.D. students:** D. Serafin (since 2026), A. Ciumeica (since 2022), F. Teleanu (since 2020), I. Fidel (since 2021), L. Fernandes (2012–2015)- continued at Ipheos, R. Sarkar (2006-2010)–continued as researcher and engineer, Univ. Munchen, P. Ahuja (2007-2011)–continued at AstraZeneca (co-supervision with G. Bodenhausen);
- Msc, BSc students:** D. Serafin, F. Teleanu, O. Ianc (UniBuc), Z. Wang, C. Guerniou (Paris-V), A. Bornet, L. Angue (EPFL)
- Professorial, PhD and HDR theses committees:** Univ. Babes-Bolyai 2024 (selection for a Professor in Chemistry); Univ. Florence 2025 (PhD); Univ Florence 2023 (PhD); Ecole Supérieure de Physique et Chimie Paris ESPCI 2015 (Dynamic Nuclear Polarisation, ‚Habilitation’ thesis); Univ. le Mans 2012 (PhD); Ecole Polytechnique Federale Lausanne 2009, 2010 (PhD committees).
- 2011-2014 Biomedical School representative in the Paris V Committee for Certification of PhD supervisors (‚Habilitation’) in Basic Sciences, Engineering, and Life Sciences;
- Honours and Prizes**
- 2023: Invited Professorship, Univ. of Vienna (semester Oct. 2023-Jan. 2024); 2019: Romanian Academy Award *N. Teclu*; 2010: Nominated for the Latsis prize, EPFL; 2008 - 2011: Awarded the ‚Ambizione’ SNCF – Elvetia; 2002 – 2004: Young Scientist European Scholarship; 1995 – 2000: Merit scholarship of the Romanian State (renewed each semester for top 5% students)
- Grants awarded to supervised Ph.D. students and post-docs:** national grant for in-cell NMR Ph.D. school (I. Fidel, 2023); grant for participating at the Univ. Florence Ph.D. school on in-cell NMR (A. Ciumeica, 2023), Fulbright scholarship to New York University 2023 (F. Teleanu), young research ELI-NP competition (silver medal D. Serafin, 2023, bronze medal F. Teleanu 2022), nomination for Varian award at ENC California 2019 (A. Sadet), post-doctoral fellowship by IdEx (R. Balzan, 2012-2015); Ph.D. scholarship by the Fondation Medicale, France (L. Fernandes, 2011-2014)

**Scientific communication,
representation**

Since 2019: Member of the Committee of the Ampere Society, largest Magnetic Resonance society in EU, organiser of Euromar, other European conferences and PhD schools (mandate renewed by the committee in 2023);

40 talks at international conferences (of which > 20 invited, 3 keynote lectures):

Univ. Vienna, NMR for biomolecular kinetics 2023-2024 (invited professor, semester NMR course); iHealth and Technology in Medicine, Tg Mures 2024 (invited), ENC California, 2023 (selected), Diaspora Timisoara 2023 (invited), Univ. Florence Chemistry Doctoral School (invited, 2023), Euromar 2022 (selected), Univ. of Split 2022 (invited), Nuclear Photonics 2018 (invited), RICCE 2017 (invited keynote); Magn. Moments Centr. Europe (MMCE), Vienna 2012 (invited keynote), Univ. Southampton 2015 (invited), Univ. Basel 2014 (invited), Biopolymers, Nove Hradky 2011 (invited), NMR of Biological Solids, Paris 2011 (invited); Colloque de la Section de Physique, EPFL, March 2010 (invited); ENC 2010 Florida, USA (selected), Joint Euromar and Ismar Conference 2010 (invited); Protein NMR Advanced School GIDRM, Univ. Torino, 2009 (invited); Gordon Conference Biddeford, ME 2009 (invited).

Reviewer and editorial activity

Reviewer of projects for ERC starting grants and for various national foundations, Editor for Physical Chemistry and Chemical Physics, Frontiers in Chemistry, Editor for IntJMolSci, reviewer for: Nature-Springer, Science Adv., American Chemical Society, Royal Society of Chemistry, Elsevier (ChemPhysChem, Analytical Chemistry, PhysChemChemPhys, Journal of Magnetic Resonance);

Journal Interview

Bulletin of the Ampere Society, 2022, Researcher profile

Patents

US Patent 8456162, EU Patent EP-P9909; US Patent 8362770, EU Patent: EP-P9917; US Patent 7626386, EU Patent: EP1879039; RO OSIM A00326/2021; A100144/2023.