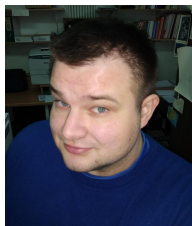


PERSONAL INFORMATION


Jurica Jurec



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Sex Male | Date of birth 06/12/1987 | Nationality Croatian

PREFERRED JOB

Post-doctoral position in Electron Paramagnetic Resonance for cultural heritage applications, Institut de Recherche de Chimie Paris

WORK EXPERIENCE

05/05/2015–Present

scientific assistant

Ruđer Bošković Institute, Division of Physical Chemistry, Laboratory for Magnetic resonances, Zagreb (Croatia)

2014–2015

mathematics and physics teacher

OŠ Ljudevit Gaj, Mihovljan (Croatia)

2014–2014

mathematics teacher

OŠ Belec, Belec (Croatia)

EDUCATION AND TRAINING

05/05/2015–Present

Ph. D. in Solid State Physics

Department of Physics, Faculty of Science, University of Zagreb, Zagreb (Croatia)

title of the thesis: *Low-temperature molecular dynamics of systems exhibiting lattice disorder probed by ESR*

Ph. D. thesis submitted for evaluation,

Ph. D. thesis defense /exam expected not later than autumn of 2019.

2006–2013

M. Sc. in Physics

Department of Physics, Faculty of Science, University of Zagreb, Zagreb (Croatia)

title of the thesis: *Neutron sensitivity of the C₆D₆ scintillation detector*

2002–2006

Secondary school

SŠ Zlatar, Zlatar (Croatia)

title of the thesis: *Probability theory*

1994–2002

Primary school

OŠ Zlatar Bistrica, Zlatar Bistrica (Croatia)

PERSONAL SKILLS

Mother tongue(s) Croatian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
German	B2	B1	B1	B1	A2
French	A1				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills - written and verbal communication skills
 - good presentation skills

Organisational / managerial skills - experience in teamwork
 - ability to solve problems
 - collaborative

Job-related skills - experience in scientific laboratory work
 - experience in Solid State EPR spectroscopy
 - advanced knowledge of pulsed EPR

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem-solving
	Independent user	Independent user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

-experienced with Microsoft Office, QtiPlot, Origin, Root, Mathematica, MatLab (EasySpin)

Driving licence B

ADDITIONAL INFORMATION

Projects Colaborator on the project: *Low-temperature molecular dynamics of systems exhibiting lattice disorder probed by ESR*, principal investigator: Marina Ilakovac Kveder, Ruđer Bošković Institute, Zagreb

Publications 1) Jurec, Jurica; Rakvin, Boris; Jokić, Milan; Kveder, Marina: Electron spin decoherence as a measure of nuclear spin bath frustration, *Journal of non-crystalline solids*, 471 (2017) 435-438.

2) Šarić, Iva; Jurec, Jurica; Reijerse, Edward; Maltar-Stremečki, Nadica; Rakvin, Boris; Kveder, Marina; Impact of disorder on formation of free radicals by gamma-irradiation: Multi-frequency EPR studies of trehalose polymorphs, *Journal of physics and chemistry of solids*, 123 (2018) 124-132.

3) Baibekov, Eduard I.; Jurec, Jurica; Rakvin, Boris; Kveder, Marina; Rabi oscillations as a tool to detect strong coupling of paramagnetic center with the nuclear spin bath, *Journal of non-crystalline solids* 519 (2019) 119440.

- Conferences**
- 1) Šarić, Iva; Jurec, Jurica; Reijerse, Edward; Kveder, Marina; Multifrequency EPR study of stable free radicals in anhydrous trehalose induced by ionizing radiation; Theory and practise in spectroscopy and electrochemistry, University of Groningen, Groningen, Netherlands (2016) (poster presentation).
 - 2) Jurec, Jurica; Rakvin, Boris; Jokić, Milan; Ilakovac-Kveder, Marina; Electron spin decoherence as a measure of nuclear spin bath frustration; Solid-State Science & Research, Zagreb, Croatia (2017) (poster presentation).
 - 3) Jurec, Jurica; Rakvin, Boris; Jokić, Milan; Ilakovac-Kveder, Marina; Probing the differences for TEMPO incorporated in glassy & crystalline ethanol using constant time CPMG experiment; C-MAC Euroschool in Material Science 2017.: Physical properties I- electrons, phonons and interactions in complex systems, Split, Croatia, (2017) (poster presentation).
 - 4) Jurec, Jurica; Rakvin, Boris; Jokić, Milan; Ilakovac-Kveder, Marina; Probing the differences for TEMPO incorporated in glassy and crystalline ethanol using constant time CPMG experiment; 2nd Faculty of Science postgraduate study symposium, Zagreb, Croatia (2018) (poster presentation).
 - 5) Jurec, Jurica; You, Jiayang; Rakvin, Boris; Jokić, Milan; Carić, Dejana; Ilakovac-Kveder, Marina; Efficiency of dynamical decoupling using constant time CPMG experiment in two different model systems; PETER Summer School, CEITEC Brno, Czech Republic (2018) (oral presentation).
 - 6) Jurec, Jurica; Low-temperature molecular dynamics of systems exhibiting lattice disorder probed by ESR; 3rd Faculty of Science postgraduate study symposium, Zagreb, Croatia (2019) (oral presentation).
 - 7) Jurec, Jurica; You, Jiayang; Rakvin, Boris; Jokić, Milan; Carić, Dejana; Ilakovac-Kveder, Marina; Role of nuclear spectral diffusion as the measure of disorder in materials; Solid-State Science & Research, Zagreb, Croatia (2019) (poster presentation).
- References**
- 1) Supervisor of my Ph.D. thesis:
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Head of Laboratory for Magnetic Resonances,
Division of Physical Chemistry,
Ruđer Bošković Institute,
Zagreb, Croatia
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