

PERSONAL INFORMATION



Lavinia-Gabriela Carpen

📍 Str. Principala, nr 88, Teisani-Prahova(Romania)

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Sex Female | Date of birth 09/11/1993 | Nationality Romanian

WORK EXPERIENCE

- 2016-Present **Physicist**  
Low Temperature Plasma Laboratory at National Institute for Laser, Plasma and Radiation Physics (NILPRP), Bucharest-Magurele, web: <http://www.inflpr.ro/ro>
- 2015-2016 **Internship practice at the National Institute for Laser, Plasma and Radiation Physics (Plasma Processes, Materials and Surfaces Group)**  
Magurele-Ilfov (Romania)
- September 2015 **Summer school 1<sup>st</sup> ELI-NP (The Extreme Light Infrastructure-Nuclear Physics)**, Magurele-Ilfov ,Bucharest
- July 2015 **Summer school "Joint Institute for Nuclear Research"**  
Dubna, Russia
- September 2014 **Internship practice at the National Institute for Laser, Plasma and Radiation Physics ( Laser Department)**  
Magurele-Ilfov (Romania)
- September 2014 **Internship practice in Optoelectronics (INOE)**  
Magurele-Ilfov (Romania)

EDUCATION AND TRAINING

- 2017-Present **Master in Medical Physics**  
Faculty of Physics, University of Bucharest
- 2012-2016 **Bachelor Degree Applied (Engineering) Physics specialization,**  
Faculty of Physics, University of Bucharest  
Bachelor degree project: *Bacteria inactivation in a liquid environment using filamentary argon plasma jet generated in ambient atmosphere*  
Magurele-Ilfov (Romania)
- 2008-2012 **High school diploma**  
National College "Nicolae Iorga"  
Valenii de Munte (Romania)

Mother tongue(s) Romanian

| Other language(s) | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|-------------------|---------------|---------|--------------------|-------------------|---------|
|                   | Listening     | Reading | Spoken interaction | Spoken production |         |
| English           | B2            | B2      | B1                 | B2                | B2      |
| French            | A2            | A2      | A1                 | A1                | A1      |

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

Communication skills Volunteering in different project and activities:

- Let's do it Romania
- European research night 2013, 2014, 2015

Job-related skills

- Internship practice for my bachelor degree project in microbiology laboratories;
- Participate in school activities and extracurricular activities-school competitions(first,second place and mentions);

Digital Competence

good command of Office suite(word processor, presentation software)  
 base command in programming language( Mathematica, C++, Pascal, Fortran)  
 base command in programming language Matlab  
 good command in industry-leading scientific graphing -OriginLab  
 initiation in technical drawing Autocad

Driving licence B

#### ADDITIONAL INFORMATION

**Conferences** National physics contest "Dragomir Hurmuzescu", first prize awarded with bachelor degree project;

**Presentations**  
**Projects** S. Vizireanu, M.D. Ionita, E. R. Ionita, S. D. Stoica, L. Carpen, M. Teodorescu, I. Ion, D. Panaitescu, G. Dinescu - Nanomaterials processing by plasma in liquids - 17th International Conference On Plasma Physics And Applications, 2017 - poster presentation;

L.G. Carpen, C. Chireceanu, M. Teodorescu, A. Chiriloaie, A. Teodoru, G. Dinescu – " The effect of a cold atmospheric filamentary plasma jet on stored products pest and wheat germination" - 17th International Conference On Plasma Physics And Applications, 2017 - poster presentation;

L.G Carpen, M. Teodorescu, L.M Ditu, M.C Chifiriuc, G. Dinescu- "Bacteria inactivation in a liquid environment using filamentary argon plasma jet generated in ambient atmosphere" - International Conference on Electrical Discharges with Liquids (ICEDL), COST Action, Kocaeli, Turkey, 2016-poster presentation;

M. Teodorescu, G. Dinescu, B. Mitu, L. Carpen, S. Vizireanu, R.E. Ionita, M.D. Ionita, V. Satulu, D. Stoica, C. Stancu, V. Marascu –" Imaging diagnostics of the interaction of a

filamentary plasma jet with liquids”, ICEDL Kocaeli, Turkey 2016, oral presentation;

L. G. Carpen, M. Teodorescu, C. Stancu, B. Mitu, G. Dinescu-, „Perspectives for plasma cleaning of large dimension optical elements used in high power laser material interaction”- Summer school 1<sup>st</sup> ELI-NP (The Extreme Light Infrastructure-Nuclear Physics)- poster presentation.