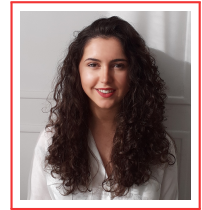


Carmen Abia Sanz

2nd year PhD Student. Physicist.

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Info

Birth date February, 10th, 1996, Oviedo, Spain.
Address 6 Place d'Avril, 38000 Grenoble, France.

Education

- 2019-currently **PhD in Materials Science & Physics**, *Institut Laue-Langevin*, in collaboration with *Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC)*, Grenoble, France.
Tailoring of new Perovskites for solar cells and their study with neutron and X ray diffraction
- 2018-2019 **Master in Condensed Matter Physics and Nanophysics**, *Autonomous University of Madrid (UAM)*, Madrid, Spain.
- 2014-2019 **Bachelor's degree in Physics**, *University of Oviedo*, Oviedo, Spain.

Experience

Professional

- 2020-currently **PhD Representative**, *elected PhD Representative of the ILL Doctoral School*, Grenoble, France.
- 2020 (1 week) **Student**, *FullProf School*, Grenoble, France.
Course on FullProf Suite crystallographic programs (diffraction data treatment).
- 2019 (1 week) **Student**, *Crystallography School*, Jaca, Spain.
- 2019 (2 weeks) **Student**, *Hands-On Research in Complex Systems School*, Trieste, Italy.
Programme on Photon Science.
- 2018 (8 weeks) **Intern**, *DESY International Summer Student Programme*, Hamburg, Germany.
Programme on Photon Science.
- 2017 (4 weeks) **Intern**, *ILL/ESRF International Summer Student Programme*, Grenoble, France.
Programme on X-Ray and Neutron Science.
- 2017 (2 weeks) **Intern**, *MAX IV Laboratory*, Lund, Sweden.
Internship at MAX IV Laboratory, synchrotron radiation facility.
- 2016 **Student**, *University of Barcelona (UB)*, Barcelona.
Course on Microscopic Characterization Techniques.

Other

- 2017 (3 weeks) **Student**, *University of California*, San Diego.
Introduction to Big Data
- 2016 (2 weeks) **Student**, Viena, Austria.
German immersion programme.
- 2013 (3 weeks) **Student**, Biarritz, France.
French immersion programme.
- 2012 (3 weeks) **Student**, Biarritz, France.
French immersion programme.
- 2011 (6 months) **Student**, *Westdale High School*, Hamilton, Ontario (Canada).
International exchange programme in Canada.

Publications

- 2020 **IntechOpen**, *Carlos A. Lopez, Maria C. Alvarez-Galvan, Carmen Abia, et al.*, Feb. 28th, 2020.
Structural Phase Transitions of Hybrid Perovskites $\text{CH}_3\text{NH}_3\text{PbX}_3$ ($X = \text{Br}, \text{Cl}$) from Synchrotron and Neutron Diffraction Data.
- 2020 **ACS Omega**, *Carlos A. Lopez, Carmen Abia et al.*, 2020 5 (11), 5931-5938.
Crystal Structure Features of CsPbBr_3 Perovskite Prepared by Mechanochemical Synthesis.
- 2020 **Scientific Reports**, *Carlos A. Lopez, Carmen Abia et al.*, 10, 11228.
Enhanced stability in $\text{CH}_3\text{NH}_3\text{PbI}_3$ hybrid perovskite from mechano-chemical synthesis: structural, microstructural and optoelectronic characterization.

Conferences and Seminars

- 2020 **ILL PhD Seminars 2019-2020**, *Institut Laue-Langevin*, Grenoble, France.
Oral presentation about my PhD project

Languaje skills

Spanish		<i>mother tongue</i>
English	advanced	<i>2014 – Cambridge English Advanced (CAE)</i>
German	intermediate	
French	intermediate	

Computer skills

Programming languages	Python, Matlab, Mplab, \LaTeX , TikZ, pgfplots.
Crystallographic software	FullProf Suite, JANA, WinGX.
Platforms	Windows, macOS, Ubuntu.
Tools	Office Suite, Origin.

Interests

Art and Music Education for 11 years. 2005-2016.