

Elisabet Roda Salichs

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23 years old



Education

- 2015-2020 **Graduated in Physics and graduated in Mathematics**, *Universitat Autònoma de Barcelona*.
- 2013-2015 **High School in Science and Technology**, *Escola Garbí -Pere Vergés*.
(Equivalent to "Batxillerat" in Science and Technology)
Average Mark: 10/10 with Honours
Entrance exams to University, PAU: 13.164/14
- 2000-2013 **Pre-School, Primary and Secondary Education**, *Escola Garbí -Pere Vergés*.

Further education and research experience

- 2020-Present **"Empleo Joven" program**, *Grup de Nanomaterials i microsistemes, GNaM*.
I am currently working as a research technician, under the supervision of Prof. Dr. Javier Rodriguez and Dr. Aitor Lopenadia, in the development of efficient structures able to measure thermoelectric properties of nanotubes and 2D materials.
- 2019-2020 **Bachelor's thesis in Physics**, *Grup d'Informació Quàntica, GIQ*.
One year under the supervision of Prof. Dr. John Calsamiglia and Dr. Michalis Skotiniotis. We worked on the problem of simple hypothesis testing for a continuously monitored quantum magnetometer. A hallmark of our approach is the use of sequential methods in quantum systems which can be described by stochastic equations.
- 2019-2020 **Internship + Bachelor's thesis in Mathematics**, *Centre de Recerca Matemàtica, CRM*.
One year as part of the group of ICREA Research Prof. Dr. Tomás Alarcón. We worked on the development of a mathematical model of a target therapy against cancer based on transgenic oncolytic viruses.
- 2019-2020 **Teacher assistant program**, *Universitat Autònoma de Barcelona, UAB*.
One year as assistant to Prof. Dr. John Calsamiglia in the subjects of Quantum Physics I and Quantum Physics II of the degree in Physics. My work consisted mainly in preparing deliveries, helping in the seminars and solving doubts of the students of those subjects.
- 2019 **Summer Fellowship**, *Institut de Ciències Fotòniques, ICFO - Fundació Catalunya – La Pedrera Summer Fellows 2019*.
Three-months full-time dedication as part of the group of ICREA Research Prof. Dr. Morgan Mitchell. I worked on the construction and sensitivity optimization of a portable magnetic field sensor based on the Faraday effect on TGG crystals.

- 2018 **Summer Fellowship**, *European Organization for Nuclear Research, CERN*.
Two-months full-time dedication as part of the group of ICREA Research Prof. Dr. Mario Martínez. I collaborated in analyzing data for the search of Dark Matter at the LHC and I worked on deep neural network in order to long-term implement it in that analysis.
- 2017 **Volunteering in the Conference cycle "Saturdays of physics"**, *Universitat Autònoma de Barcelona*.
- 2016 **Summer Fellowship**, *Institut de Ciències Fotòniques, ICFO*.
Three-months full-time dedication as a summer student in Knowledge and Technology Transfer Team in which I was mainly involved in The Big Bell Test project.
- 2015 **Participation in the First Young Photonics Congress**, *Institut de Ciències Fotòniques, ICFO*.
- 2015 **Participation in "Taller Stop motion"**, *Institut de Ciències Fotòniques, ICFO*.
- 2015 **Participation in the program "XV Aula de Verano «Ortega y Gasset» . Initiation to University"** , *Universidad Internacional Menéndez Pelayo*.
- 2015 **Participation in the program "Taller de Física de Partículas, International Master-classes hands on particle physics"**, *Universitat de Barcelona*.

Awards and recognitions

- 2018 **The University Physics Competition**, *Sponsored by the American Physical Society and the American Astronomical Society*.
Bronze Medal Winner
- 2017 **The University Physics Competition**, *Sponsored by the American Physical Society and the American Astronomical Society*.
Silver Medal Winner
- 2016 **Awarded by "Ajuts Universitaris" program**, *Fundació Catalunya – La Pedrera*.
Scholarship to the best marks of PAU (Entrance exams to University)
- 2015 **Scholarship to participate in the program "XV Aula de Verano «Ortega y Gasset» Iniciación a la Universidad"**, *Universidad Internacional Menéndez Pelayo*.
- 2015 **Graduated with Honours in High School in Science and Technology**, *Escola Garbí-Pere Vergés*.
- 2013 **Scholarship to the best Secondary Education academic transcript**, *Escola Garbí-Pere Vergés*.

Languages

Catalan	Native Level	
Spanish	Native Level	
English	Advanced Level	C1 Certificate

Computer Skills

Text editor	L^AT_EX	High Level
Microsoft Office	Word, Excel, Power Point, One Note...	High level
Programming Language	GLPK, R, Python, Matlab, C and Root	Intermediate and advanced level
Data analysis	Gnuplot, Origin, R, Python and Root	Intermediate level
Others	Comsol Multiphysics, Autocad	Intermediate level