

Samuel González-Castillo

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Education

University of Oviedo 2023 – Present

PhD student in Mathematics

Supervised by Prof. Elías F. Combarro and Prof. Ignacio F. Rúa.

Maynooth University 2021 – 2023

Research Master's Degree in Mathematics

Thesis: The Dirichlet energies of functions between spheres.

Supervised by Dr Stefan Bechtluft-Sachs.

University of Oviedo 2016 – 2021

Bachelor's Degree in Mathematics

Bachelor's Degree in Physics

Selected work experience

University of Oviedo Jan 2024 – Present

Teaching assistant & FPU fellow

ITCL (Technological Institute of Castille and León) Oct – Nov 2023

Researcher

Maynooth University Sep 2021 – Apr 2023

Teaching assistant (part-time)

Tutored first and second-year students in calculus and linear algebra modules.

Dorset College Dublin Nov 2022 – Apr 2023

Lecturer (part-time)

Taught the modules “Probability and Measure Theory” and “Introduction to Quantum” to visiting ESILV students.

CERN openlab Summer 2021

Summer student

Project: Quantum computing simulation benchmarks.

The project was selected as one of the “five exceptional projects”.

Academic publications

- [1] Elías F. Combarro and Samuel González-Castillo. *A practical guide to quantum machine learning and quantum optimization*. Packt, Mar. 2023.
- [2] Vasilis Belis, Samuel González-Castillo, Christina Reissel, Sofia Vallecorsa, Elías F. Combarro, Günther Dissertori and Florentin Reiter. *Higgs analysis with quantum classifiers*. EPJ Web of Conferences 251 (Jan. 2021), 03070.

Languages

- Spanish: Native speaker.
- English: Fluent (C2 level in the CEFR, certified by Cambridge ESOL).

Fellowships and awards

<i>Spanish Ministry of Science, Innovation and Higher Education</i>	2023
Four-year fellowship under the Training Programme for Academic Staff (FPU)	
<i>Spanish Mathematical Olympiad</i>	2016
First place in the regional contest held in Asturias	
<i>Spanish Physics Olympiad</i>	2015 – 2016
Honourable mention in the 2016 national contest	
First place in the 2016 regional contest held in Asturias	
Honourable mention in the 2015 regional contest held in Asturias	

Other work experience

<i>North Kildare Maths Problem Club (Maynooth University)</i>	2022 – 2023
Grader for the IrMO, the EGMO and the local maths contest held in 2023	
Invigilator	
<i>Maynooth University Examinations Office</i>	Jan, May 2023
Junior invigilator and scribe	
<i>University of Oviedo</i>	Sep 2019 – Jun 2021
IT Services intern	

Last updated on 27 January 2024.

This CV is not exhaustive. In particular, the personal projects that I have worked on are not listed here. Most of them are available on my website ([SGC.ink](https://sgc.ink)).

I have chosen not to include my volunteer experience in my public CV.