





# david muñoz lahoz

 [davidmunozlahoz@gmail.com](mailto:davidmunozlahoz@gmail.com)  
 +34 XXX XXX XXX  
 [davidmunozlahoz.github.io](https://davidmunozlahoz.github.io)  
 [github.com/davidmunozlahoz](https://github.com/davidmunozlahoz)

Last updated:  
January 17, 2023

## education

---

### Master's Degree in Mathematics and Applications

2022–Now

*Autonomous University of Madrid*

Specialization in introduction to research. Expected date of completion: July 2023.

### Bachelor's Degree in Mathematics

2017–2022

*Autonomous University of Barcelona*

Bachelor thesis: *The classification of finitely generated modules over a PID and its application to canonical form theory.*

### Bachelor's Degree in Physics

2017–2022

*Autonomous University of Barcelona*

Bachelor thesis: *Quantum phase estimation with limited coherence.*

## additional education

---

### Barcelona Introduction to Mathematical Research

July 2022

*BGSMath, CRM, University of Barcelona*

I attended five courses of introduction to mathematical research, and worked under the supervision of Dr. Francesc Perera in an introductory research project, where we mainly studied properties of Cu-semigroups and W-semigroups, and the notion of covering dimension of these semigroups.

### XI Escuela-Taller de Análisis Funcional Bernardo Cascales

March 2022

*University of La Laguna*

I attended an introductory workshop about local theory of Banach Spaces. During three days we worked on some topics related with finite representation and ultraproducts of Banach spaces, locally complemented subspaces, and  $\mathcal{L}_p$  spaces. We presented our work in the [XVII Encuentro de la Red de Análisis Funcional y Aplicaciones](#).

## publications

---

### arXiv preprints



D. Muñoz-Lahoz, J. Calsamiglia, J.A. Bergou, and E. Bagan. “Phase estimation with limited coherence”. In: *arXiv preprint arXiv:2207.05656* (2022). <https://arxiv.org/abs/2207.05656>

## grants and awards

---

(2022–2023) *Grant JAE intro at ICMAT* Grant to collaborate with a researcher at the ICMAT during the Master's degree studies.

(2022) *Bachelor's Degree Extraordinary Award* Academic award granted annually by each university in Spain to students who have completed their Bachelor's Degree with the highest GPA in their class.

## work experience

---

### Development of the Sangaku Maths webpage

Summer 2021

*Biomimetics Sciences Institute (BSI)*

Worked in the development and the creation of contents for the webpage [sangakoo.com](http://sangakoo.com).

## technical skills

---

Programming languages	$\text{\LaTeX}$ , PYTHON, C, BASH
Mathematical packages	<i>SageMath</i>
Other	Markdown, Git, Vim, Arch Linux

## languages

---

Spanish	Native
Catalan	Native
English	IELTS Band 8