

# Pedro Núñez | Curriculum Vitae

## Contact details

---

**Homepage:** <https://pedro-nunez.github.io>

**Email:** [pedro.nunez@math.uni-freiburg.de](mailto:pedro.nunez@math.uni-freiburg.de)

## Working experience

---

**Postdoctoral researcher** – *National Taiwan University*  
Postdoc in the working group of Jungkai Alfred Chen.

**Taipei, Taiwan**  
*September 2023 - Present*

## Publications and preprints

---

- *Adapted differentials as a  $qfln$ -sheaf.*  
Mathematische Zeitschrift 304, 68 (2023). DOI:10.1007/s00209-023-03330-6.  
Preprint: arXiv:2210.07968.
- *A note on semiorthogonal decompositions for Fano fibrations.*  
Geometriae Dedicata 2216, 20 (2022). DOI:10.1007/s10711-022-00680-z.  
Preprint: arXiv:2002.10987.

## Contributed talks

---

**Géométrie Algébrique en Liberté XXIX**  
Title: *Semiorthogonal decompositions on Fano fibrations.*

**Orsay, France**  
*24 May 2022*

**2nd BYMAT Conference**  
Title: *Derived categories of Fano varieties and Mori fibre spaces.*

**Madrid, Spain**  
*21 May 2019*

## Seminar talks

---

**NCTS Seminar in Algebraic Geometry**  
Title: *Indecomposability of derived categories of hyperelliptic manifolds.*

**Taipei, Taiwan**  
*20 October 2023*

**Luxembourg algebraic geometry seminar**  
Title: *Adapted differentials on Campana orbifolds.*

**Esch-sur-Alzette, Luxembourg**  
*22 March 2023*

**NCTS Seminar in Algebraic Geometry (online)**  
Title: *Adapted differentials on Campana orbifolds.*

**Taipei, Taiwan**  
*6 February 2023*

**Red de Doctorandos en Matemáticas UCM (online)**  
Title: *Categorías derivadas y geometría birracional.*

**Madrid, Spain**  
*22 March 2022*

## Education

---

**PhD in Mathematics** – *University of Freiburg*  
*Categorical aspects of Campana orbifolds, supervised by Stefan Kebekus.*  
Grade: magna cum laude

**Freiburg, Germany**  
*September 2019 - July 2023*

**Master in Mathematics** – *University of Bonn*  
Average: 1.2 (German grading system.)

**Bonn, Germany**  
*October 2017 - July 2019*

**Bachelor in Mathematics** – *Complutense University and LMU Munich (Erasmus)*  
Average: 8.34 (Spanish grading system.)

**Madrid, Spain**  
*September 2013 - August 2017*

## Teaching experience

### **Elementargeometrie – Assistant**

Lecturer: Annette Huber-Klawitter.

### **Riemannsche Flächen – Assistant\***

Lecturer: Stefan Kebekus.

### **Elementargeometrie – Assistant**

Lecturer: Annette Huber-Klawitter.

### **Algebra und Zahlentheorie – Assistant**

Lecturer: Annette Huber-Klawitter.

### **Einführung in die Algebra – Tutor\*\***

Lecturer: Jan Schröer.

### **Lineare Algebra für Informatik und Lehramt – Tutor**

Lecturer: Thoralf Räsch.

**University of Freiburg**

Summer Term 2023

**University of Freiburg**

Winter Term 2022/2023

**University of Freiburg**

Summer Term 2022

**University of Freiburg**

Winter Term 2021/2022

**University of Bonn**

Winter Term 2018/2019

**University of Bonn**

Summer Term 2018

\*The job of an assistant in Germany is to create exercise sheets and coordinate the exercise classes.

\*\*The job of a tutor in Germany is to grade homework and discuss its solutions in an exercise class.

## Summer schools, workshops and conferences attended

### **Geometric and Arithmetic Frontiers of Orbifolds II**

IRMA - Université de Strasbourg

**Strasbourg, France**

5 to 9 April 2023

### **Komplexe Analysis — Differential and Algebraic methods in Kähler spaces**

Mathematisches Forschungsinstitut Oberwolfach

**MFO, Germany**

9 to 14 April 2023

### **Crash Course Condensed Mathematics**

University of Freiburg

**Freiburg, Germany**

13 to 17 March 2023

### **Abschlusskolloquium of GK “Cohomological Methods in Geometry”**

University of Freiburg

**Freiburg, Germany**

14 to 15 July 2022

### **Birational Geometry conference**

EPFL

**Lausanne, Switzerland**

13 to 17 June 2022

### **Géométrie Algébrique en Liberté XXIX**

Laboratoire de Mathématiques d'Orsay

**Orsay, France**

23 to 27 May 2022

### **Workshop Higher Algebra**

Technical University of Darmstadt

**Darmstadt, Germany**

16 to 18 March 2022

### **New Techniques in Resolution of Singularities (online participant)**

Mathematisches Forschungsinstitut Oberwolfach

**MFO, Germany**

24 to 30 October 2021

### **Workshop on K-theory, algebraic cycles and motivic homotopy theory**

Isaac Newton Institute for Mathematical Sciences

**Cambridge, UK**

13 to 17 January 2020

### **o-Minimal Structures in Algebraic Geometry Summer School**

University of Freiburg

**Freiburg, Germany**

9 to 13 September 2019

### **Moduli and Stability conditions Summer School**

University of Hannover

**Hannover, Germany**

29 July to 2 August 2019

### **2nd BYMAT Conference**

ICMAT

**Madrid, Spain**

20 to 24 May 2019

### **Geometry Summer School**

Utrecht University

**Utrecht, Netherlands**

14 to 25 August 2017

### **Partial Differential Equations Summer School**

**Lisbon, Portugal**

*Fundação Calouste Gulbenkian*

**Dynamical Systems Summer School**

*Fundação Calouste Gulbenkian*

**Algebraic Geometry Summer School**

*Fundação Calouste Gulbenkian*

4 to 8 July 2016

**Lisbon, Portugal**

6 to 10 July 2015

**Lisbon, Portugal**

14 to 18 July 2014

## Scholarships and funding

---

**Geometric and Arithmetic Frontiers of Orbifolds II**

Funded by IRMA to attend their workshop.

**Strasbourg, France**

June 2023

**Oberwolfach Leibniz Graduate Students (OWLG)**

Funded by MFO to attend the Komplexe Analysis workshop at Oberwolfach.

**Oberwolfach, Germany**

April 2023

**2nd BYMAT Conference**

Funded by ICMAT to attend their conference.

**Madrid, Spain**

May 2019

**Geometry Summer School**

Funded by Utrecht University to attend their summer school.

**Utrecht, Netherlands**

August 2017

**Erasmus Scholarship**

Studied at the LMU as an Erasmus exchange student.

**Munich, Germany**

Course 2016/2017

**Dynamical Systems Summer School**

Funded by the Gulbenkian Foundation to attend their summer school.

**Lisbon, Portugal**

July 2015

## Languages

---

**Spanish:** Native speaker

**English:** C1 level

**German:** C1 level

**Mandarin:** B1 level

IELTS with score 8

Goethe-Zertifikat C1

HSK3 + HSKK Basic

## Other interests and activities

---

**World Space Observatory – Ultraviolet**

Internship at the WSO-UV space telescope project

**Madrid, Spain**

1 to 31 July 2015

○ Analysis of time series from ultraviolet spectroscopy measurements.

○ Director: Ana I. Gómez de Castro.

**Astronomy – International Astronomical Youth Camp 2014**

Observational astronomy and weather modeling with Matlab.

**Weyer, Austria**

20 July to 9 August 2014

**Programming – Android application development I, II and III**

Courses taken at TEIDE Centros de Formación.

**Madrid, Spain**

2013

**Piano – Escuela de música y danza**

Piano, musical language and its theory, harmony and chamber music.

**Madrid, Spain**

2005 to 2012