Pedro Núñez | Curriculum Vitae

Contact details

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Working experience

Postdoctoral researcher – *National Taiwan University* **Taipei, Taiwan**
Postdoc in the working group of Jungkai Alfred Chen. *September 2023 - Present*

Publications and preprints

- *Adapted differentials as a qfh-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

9th European Congress of Mathematics **Seville, Spain**
Title: *Adapted differentials as a qfh-sheaf.* *15 July 2024*

Géométrie Algébrique en Liberté XXIX **Orsay, France**
Title: *Semiorthogonal decompositions on Fano fibrations.* *24 May 2022*

2nd BYMAT Conference **Madrid, Spain**
Title: *Derived categories of Fano varieties and Mori fibre spaces.* *21 May 2019*

Invited talks

NCKU Algebraic Geometry Seminar **Tainan, Taiwan**
Title: *Indecomposability of derived categories of threefolds on the Noether line.* *18 April 2024*

NCTS Seminar in Algebraic Geometry **Taipei, Taiwan**
Title: *Indecomposability of derived categories of hyperelliptic manifolds.* *20 October 2023*

Luxembourg algebraic geometry seminar **Esch-sur-Alzette, Luxembourg**
Title: *Adapted differentials on Campana orbifolds.* *22 March 2023*

NCTS Seminar in Algebraic Geometry (online) **Taipei, Taiwan**
Title: *Adapted differentials on Campana orbifolds.* *6 February 2023*

Red de Doctorandos en Matemáticas UCM (online) **Madrid, Spain**
Title: *Categorías derivadas y geometría birracional.* *22 March 2022*

Education

PhD in Mathematics – *University of Freiburg* **Freiburg, Germany**
Categorical aspects of Campana orbifolds, supervised by Stefan Kebekus. *September 2019 - July 2023*
Grade: magna cum laude

Master in Mathematics – *University of Bonn*   **Bonn, Germany**
Average: 1.2 (German grading system.)   *October 2017 - July 2019*

Bachelor in Mathematics – *Complutense University and LMU Munich (Erasmus)*   **Madrid, Spain**
Average: 8.34 (Spanish grading system.)   *September 2013 - August 2017*

Teaching experience

Elementargeometrie – *Assistant*   **University of Freiburg**
Lecturer: Annette Huber-Klawitter.   *Summer Term 2023*

Riemannsche Flächen – *Assistant*[*]   **University of Freiburg**
Lecturer: Stefan Kebekus.   *Winter Term 2022/2023*

Elementargeometrie – *Assistant*   **University of Freiburg**
Lecturer: Annette Huber-Klawitter.   *Summer Term 2022*

Algebra und Zahlentheorie – *Assistant*   **University of Freiburg**
Lecturer: Annette Huber-Klawitter.   *Winter Term 2021/2022*

Einführung in die Algebra – *Tutor*[**]   **University of Bonn**
Lecturer: Jan Schröer.   *Winter Term 2018/2019*

Lineare Algebra für Informatik und Lehramt – *Tutor*   **University of Bonn**
Lecturer: Thoralf Räsch.   *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.

Conferences, workshops and schools attended

9th European Congress of Mathematics   **Seville, Spain**
Universidad de Sevilla   *15 to 19 July 2024*

Transcendental aspects of algebraic geometry   **Cetraro, Italy**
Grand Hotel San Michele   *1 to 5 July 2024*

2024 TMS Annual Meeting   **Taipei, Taiwan**
National Chengchi University   *22 to 23 January 2024*

NCTS-Kyoto Mathematics Symposium   **Taipei, Taiwan**
NCTS (National Center for Theoretical Sciences)   *9 December 2023*

Birational Geometry and Algebraic Dynamics   **Tokyo, Japan**
Graduate School of Mathematical Sciences, University of Tokyo   *27 November to 1 December 2023*

Algebraic Geometry in East Asia   **Seoul, South Korea**
KIAS (Korea Institute For Advanced Study)   *6 to 10 November 2023*

Geometric and Arithmetic Frontiers of Orbifolds II   **Strasbourg, France**
IRMA (Institut de recherche mathématique avancée)   *5 to 9 April 2023*

Komplexe Analysis — Differential and Algebraic methods in Kähler spaces **MFO, Germany**
MFO (Mathematisches Forschungsinstitut Oberwolfach)   *9 to 14 April 2023*

Crash Course Condensed Mathematics   **Freiburg, Germany**
University of Freiburg   *13 to 17 March 2023*

Abschlusskolloquium of GK "Cohomological Methods in Geometry"   **Freiburg, Germany**
University of Freiburg   *14 to 15 July 2022*

Birational Geometry conference   **Lausanne, Switzerland**

EPFL (École Polytechnique Fédérale de Lausanne) — *13 to 17 June 2022*

Géométrie Algébrique en Liberté XXIX — **Orsay, France**
Laboratoire de Mathématiques d'Orsay — *23 to 27 May 2022*

Workshop Higher Algebra — **Darmstadt, Germany**
Technical University of Darmstadt — *16 to 18 March 2022*

New Techniques in Resolution of Singularities (online participant) — **MFO, Germany**
MFO (Mathematisches Forschungsinstitut Oberwolfach) — *24 to 30 October 2021*

Workshop on K-theory, algebraic cycles and motivic homotopy theory — **Cambridge, UK**
Isaac Newton Institute for Mathematical Sciences — *13 to 17 January 2020*

o-Minimal Structures in Algebraic Geometry Summer School — **Freiburg, Germany**
University of Freiburg — *9 to 13 September 2019*

Moduli and Stability conditions Summer School — **Hannover, Germany**
University of Hannover — *29 July to 2 August 2019*

2nd BYMAT Conference — **Madrid, Spain**
ICMAT (Instituto de Ciencias Matemáticas) — *20 to 24 May 2019*

Geometry Summer School — **Utrecht, Netherlands**
Utrecht University — *14 to 25 August 2017*

Partial Differential Equations Summer School — **Lisbon, Portugal**
Fundação Calouste Gulbenkian — *4 to 8 July 2016*

Dynamical Systems Summer School — **Lisbon, Portugal**
Fundação Calouste Gulbenkian — *6 to 10 July 2015*

Algebraic Geometry Summer School — **Lisbon, Portugal**
Fundação Calouste Gulbenkian — *14 to 18 July 2014*

Scholarships and funding

Geometric and Arithmetic Frontiers of Orbifolds II — **Strasbourg, France**
Funded by IRMA to attend their workshop. — *June 2023*

Oberwolfach Leibniz Graduate Students (OWLG) — **Oberwolfach, Germany**
Funded by MFO to attend the Komplexe Analysis workshop at Oberwolfach. — *April 2023*

2nd BYMAT Conference — **Madrid, Spain**
Funded by ICMAT to attend their conference. — *May 2019*

Geometry Summer School — **Utrecht, Netherlands**
Funded by Utrecht University to attend their summer school. — *August 2017*

Erasmus Scholarship — **Munich, Germany**
Studied at the LMU as an Erasmus exchange student. — *Course 2016/2017*

Dynamical Systems Summer School — **Lisbon, Portugal**
Funded by the Gulbenkian Foundation to attend their summer school. — *July 2015*

Languages

Spanish: Native speaker   **German:** C1 level (Goethe-Zertifikat C1)

English: C1 level (IELTS with score 8)   **Mandarin:** B1 level (HSK3 + HSKK Basic)

Other interests and activities

World Space Observatory – Ultraviolet   **Madrid, Spain**
Internship at the WSO-UV space telescope project   *1 to 31 July 2015*

Astronomy – *International Astronomical Youth Camp 2014*   **Weyer, Austria**
Observational astronomy and weather modeling with Matlab.   *20 July to 9 August 2014*

Programming – *Android application development I, II* and *III*   **Madrid, Spain**
Courses taken at TEIDE Centros de Formación.   *2013*

Piano – *Escuela de música y danza*   **Madrid, Spain**
Piano, musical language and its theory, harmony and chamber music.   *2005 to 2012*