



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Matematica "Federigo Enriques"**

Scientist- in - charge: **Prof. Paolo Stellari**

Andrés Rojas

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Rojas
Name	Andrés
Date of birth	12,09,1994

PRESENT OCCUPATION

Appointment	Structure
Predoctoral researcher in Mathematics	Departament de Matemàtiques i Informàtica, Universitat de Barcelona

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Bachelor's Degree	Mathematics	Universitat de Barcelona	2016
PhD	Mathematics	Universitat de Barcelona	Expected to finish in 2021
Master's Degree	Advanced Mathematics	Universitat de Barcelona	2017

FOREIGN LANGUAGES

Languages	level of knowledge
Spanish	Native
Catalan	Native
English	Upper-Intermediate



AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2020	Scholarship by Fundació Universitària Pedro i Pons, for the realization of a predoctoral research stay at Université Paris-Saclay
2017-2020	PhD 3-years scholarship, by the BGSMath through the María de Maeztu programme
2017	Master's Extraordinary Award

TRAINING OR RESEARCH ACTIVITY

Research interests

Algebraic Geometry, with special focus on Bridgeland stability and problems of geometric nature on abelian varieties.

Long stays

Predocctoral stay at Université Paris-Saclay, February 3rd-March 13th 2020. Tutor: Prof. Emanuele Macrì.

Conferences and schools attended

Summer school: Moduli and Stability conditions. Leibniz Universität Hannover, July 29th-August 2nd 2019.

Workshop on Derived Categories, Moduli Spaces and Deformation Theory. Hotel San Michele (Cetraro, Italy), June 24th-28th 2019.

Jibiri Seminar II: Bridgeland stability conditions on curves and surfaces. Universidad de Salamanca, March 21st-22nd 2019.

Summer School: Mixed Hodge Modules in Birational Geometry. Johannes Gutenberg Universität Mainz, July 9th-13th 2018.

Summer School on Geometry of Moduli Spaces of Curves. ICTP (Trieste, Italy), June 18th-22th 2018.

Workshop: Semiorthogonal decompositions, stability conditions and sheaves of categories. Institut de Mathematiques de Toulouse, May 5th-9th 2018.

Workshop on Complex Algebraic Geometry - Pirola 60th. Universitat de Barcelona, February 5th-9th 2018.

Teaching experience

Problems sessions of *Geometria Projectiva*, Bachelor's in Mathematics, Universitat de Barcelona: Fall 2018 (15 hours), Spring 2019 (30 hours) and Fall 2019 (15 hours).

Problems sessions of *Àlgebra Lineal*, Bachelor's in Chemical Engineering, Universitat de Barcelona: Fall 2019 (30 hours).



CONGRESSES AND SEMINARS

Date	Title	Place
22/05/19	On a theorem of Waring for plane algebraic curves	Universitat de Barcelona (PhD seminar)

PUBLICATIONS

Articles in journals

A. Rojas, *Waring's theorem revisited*. Rocky Mountain J. Math. 49 (2019), 979-1003.

Preprints

A. Rojas, *The divisors of Prym semicanonical pencils*.

In preparation

M. Lahoz and A. Rojas, *Functions of cohomological rank type and wall-crossing on surfaces*.

A. Rojas, *The basepoint-freeness threshold of a very general abelian surface*.

M. Lahoz, J.C. Naranjo and A. Rojas, *The Prym map on coverings with semicanonical pencils*.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Barcelona, 01/03/2021



SIGNATURE