

Curriculum Vitae

PEDRO A. CASTILLEJO

Office Address: Freie Universität Berlin
FB Mathematik und Informatik
Arnimallee 3, Raum 111
14195, Berlin, Germany

Homepage: www.mi.fu-berlin.de/users/castillejo/
Office Phone: (+49) 30 838 752 35
Email Address: castillejo@zedat.fu-berlin.de

Date of Birth: 1991 (Madrid, Spain)

Date of CV: July 2016

Education

- 2016 – PhD of Mathematics, FU Berlin.
- 2013 – 2016 Master of Mathematics, FU Berlin.
- 2009 – 2013 Bachelor of Mathematics, Universidad Complutense de Madrid.

Research interests

Arithmetic geometry, algebraic number theory, algebraic geometry, non-archimedean geometry.

Publications

- 2010 1. (with V. Arnaiz and A. González) *Sobre el problema de Flavio Josefo*, (Spanish). Ponencias de jóvenes investigadores (I) (Colección Cuadernos del I.N.I.C.E.. Investigación juvenil; n. 96). 2010.

Scholarships

- 2014 – 2016 Mutua Madrileña Foundation Master studies scholarship.
- 2012 – 2013 Erasmus
- 2012 JAE Introduction to research scholarship.
- 2011 JAE Introduction to research scholarship.
- 2010 – 2011 Comunidad de Madrid's excellence scholarship.
- 2009 – 2010 Comunidad de Madrid's excellence scholarship.

Talks

- 2016 Jun. FU Berlin: Periods and the conjectures of Grothendieck and of Kontsevich-Zagier. Research seminar on Motivic Galois groups and periods.
- May. FU Berlin: The Riemann-Hilbert correspondence. Seminar on D -modules.
- Apr. FU Berlin: ℓ -adic sheaves and the Grothendieck-Ogg-Shafarevich formula. Mini course (8 hours).
- 2015 Oct. FU Berlin: Crystalline cohomology. Research seminar on Supersingular K3 Surfaces.
- Oct. FU Berlin: Chow ring. Seminar on Intersection theory.
- Jun. FU Berlin: Cohomology of \mathbb{G}_m on a curve. Seminar on Étale cohomology.
- Jun. FU Berlin: Category of sheaves on the étale site. Seminar on Étale cohomology.
- Apr. FU Berlin: Introduction to stacks. Research seminar on Rational Sections and Serre's Conjecture.
- 2014 May FU Berlin: Theorem of the cube. Seminar on Abelian varieties.
- Feb. FU Berlin: Homotopy, contractibility and deformation retractions. Course on Algebraic topology.
- Jan. FU Berlin: Ruled quartic surfaces. Seminar on Algebraic geometry.

Seminars and conferences

- 2016 Motivic Galois Groups, FU Berlin, Summer Semester 2016.
- D-modules, FU Berlin, Summer Semester 2016.
- Berkovich Spaces, HU Berlin, Summer Semester 2016.

- Algebraization theorems, From GAGA to foliations over number fields (Notes), Tatihou island (Normandy), July 4-8, 2016.
- Day of Algebraic and Arithmetic Geometry, Berlin-Brandenburgische Akademie der Wissenschaften, May 20, 2016.
- Motivic Homotopy Theory, FU Berlin, March 7, 2016.
- 2015 Supersingular K3 Surfaces, FU Berlin, Winter Semester 2015-16.
- Intersection Theory, FU Berlin, Winter Semester 2015-16.
- Perfectoid Spaces, Bressanone, August 31-September 4, 2015.
- AMS Summer Institute in Algebraic Geometry, Salt Lake City, July 12-August 1, 2015.
- Étale Cohomology, FU Berlin, Summer Semester 2015.
- Rational Sections and Serre’s Conjecture, FU Berlin, Summer Semester 2015.
- Day of Arithmetic and Algebraic Geometry, Berlin, March 12, 2015.
- 2014 Topics in Characteristic $p > 0$ and p -Adic Geometry, Lukecin, September 8-12, 2014.
- VBAC 2014, Berlin, September 1-5, 2014.
- CMI Summer School: Periods and Motives, Madrid, June 30-July 25, 2014.
- 2012 Escuela JAE de Matemáticas, Madrid, July 2-27, 2012.
- 2011 Escuela JAE de Matemáticas, Madrid, July 4-22, 2011.

Activity

Teaching assistant

- 2014 Spring Lineare Algebra und Analytische Geometrie II. HU Berlin.
- 2013 Fall Lineare Algebra und Analytische Geometrie I. HU Berlin.

Organization of seminar and conferences

- 2016 April Mini course on ℓ -adic sheaves (8 hours). FU Berlin.
- 2015 Fall Seminar of Intersection Theory (with Yun Hao). FU Berlin.
- 2015 Spring Seminar of Étale Cohomology (with Elena Lavanda). FU Berlin.
- 2012 April Lecture series “Logic and Gödel”. UCM Madrid.
- 2011 May Lecture series “Mathematics and science”. UCM Madrid.

Editorial activities

- 2010 – Referee of *Matgazine*.
- 2010 – 2012 Director of *Matgazine*.
- 2010 Foundation of *Matgazine*, the mathematics magazine of the students (in Spanish).

University service

- 2011 Volunter in the local phase of OME (Spanish Mathematical Olympiad).
- 2010 – 2012 Volunter in “Concurso de Primavera” (Outreach mathematical contest).
- 2010 Volunter in “Concurso intercentros” (Outreach mathematical contest).

Competitions

- 2012 International Mathematics Competition for University Students. Blagoevrad, Bulgaria. Bronze medal.
- 2011 International Mathematics Competition for University Students. Blagoevrad, Bulgaria. Bronze medal.
- 2010 Olimpiada Iberoamericana de Matemática Universitaria. Top 10 in Spain.

Languages

- Spanish (Native speaker)
- English (C1)
- French (B2)
- German (B1)
- Basque (A1)