## **CURRICULUM VITAE**

## Josué Tonelli-Cueto

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## **CONTACT INFORMATION**

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#### AREAS OF MATHEMATICAL INTEREST

Numerical algorithms Condition-based complexity
Computational algebraic geometry Random geometry

#### **EDUCATION**

## Doctorate in Mathematics in the framewrok of the Berlin Mathematical School

Doctoral thesis' title: Condition and Homology in Semialgebraic Geometry

Doctoral Supervisors: Peter Bürgisser

Felipe Cucker

Institution: Berlin Mathematical School (BMS)

Technische Universität Berlin

Duration: 01/2017-11/2019

M.Sc. Mathematik

(M.Sc. Mathematics in the framework of the Berlin Mathematical School)

Master's thesis' title: On the Complexity of some Null-Cone Membership Problems

Master's thesis' supervisor: Peter Bürgisser

Average grade: 1.0 (In the German system, 1.0 is the highest grade)

Institution: Technische Universität Berlin

Berlin Mathematical School (BMS)

Duration: 10/2014-03/2017

#### Licenciatura en Matemáticas con Primer Premio Nacional Fin de Carrera

(B. Mathematics with First Prize in the End of Studies National Awards)

Average grade: 9.86/10 (In the Spanish system, 10 is the highest grade)

Recognitions: Best Student Record

Extraordinary End of Degree Award

First Prize in the End of Studies Spanish National Awards

Institution: University of the Basque Country (UPV/EHU)

Duration: 10/2009-07/2014

#### **GRANTS AND AWARDS**

## Research Scholarships

## BMS Doctoral Fellowship funded by the Einstein Foundation Berlin

Framework: Prof. Felipe Cucker's Einstein Visiting Fellowship

Complexity and accuracy of numerical algorithms in algebra and geometry

Awarding institution: Berlin Mathematical School (BMS)

Tecnische Universität Berlin Funding Entity: Einstein Foundation Berlin

Duration: 01/01/2017-31/12/2019

## Beca de "la Caixa" para estudios de posgrado en universidades europeas. Convocatoria 2014

(Scholarship of "la Caixa" for graduate studies in Europe. 2014 Call)

Purpose: Completion of the BMS Phase I

Awarding institution: "la Caixa" Foundation Funding institution: "la Caixa" Foundation

German Academic Exchange Service (DAAD)

Duration: 01/10/2014-31/07/2016

## Beca de Colaboración, para el curso 2013-2014

(Collaboration Scholarship for the academic year 2013-2014)

Purpose: Introduction to research with a researcher of the Basque University System

Topic: Pro-*p* groups and *p*-adic analytic groups Mentor: Gustavo Adolfo Fernández Alcober

Hosting institution: University of the Basque Country (UPV/EHU)

Awarding institution: Gobierno Vasco (Basque Government)

Duration: 01/11/2013-30/06/2014

## Beca de Introducción a la Investigación del Programa JAE

(Research Introduction Scholarship of the JAE Program)

Purpose: Introduction to research with a researcher of CSIC

Topic: Class Field Theory Mentor: Andrei Jaikin-Zapirain

Hosting institution: Instituto de Ciencias Matemáticas (ICMAT)

Awarding institution: Consejo Superior de Investigaciones Científicas (CSIC)

Duration: 01/07/2013-30/09/2013

Awards

#### **SIAM Student Travel Award**

Description: To attend the SIAM Conference on Applied Algebraic Geometry 2019

Awarding Institution: SIAM
Date: 07/2019

## Special Award to Young Researchers presenting Posters at MEGA2019

Description: Three special awards were given to young researchers presenting posters

Awarding Conference: MEGA 2019: Effective Methods in Algebraic Geometry

Date: 06/2019

## Primer Premio en los Premios Nacionales Fin de Carrera

(First Prize in the End of Studies National Awards)

Reason: Academic achievements during the Licenciatura en Matemáticas

Awarding Institution: Spanish Government

Date: 07/2018

#### Premio Extraordinario Fin de Carrera de la Licenciatura en Matemáticas

(End of Degree Extraordinary Award of the Licenciatura en Matemáticas)

Reason: Academic achievements during the Licenciatura en Matemáticas

Awarding Institution: Faculty of Science and Technology (ZTF-FCT)

of the University of the Basque Country (UPV/EHU)

Date: 06/2015

# Mención de Honor en la modalidad "Trabajos de Divulgación Científica. Medios de Comunicación" de la XIV Edición de Ciencia en Acción

(Honor Mention in the modality "Popular Science work. Media"

of the 14th Edition of Ciencia en Acción)

Co-awardee: Ricardo Grande

Reason: Editing the Mathematics Students' Magazine PIkasle

Awarding Institution: Consejo Superior de Investigaciones Científicas (CSIC)

Instituto de Ciencias Matemáticas (ICMAT) Real Sociedad Española de Física (RSEF)

Sociedad Geológica de España

Universidad Nacional de Educación a Distancia (UNED)

Date: 06/10/2013

## III Premios al alumnado que mejor ha difundido la imagen de la UPV/EHU

(III Awards to students who best spread the image of the UPV/EHU)

Won award: 1st prize in the category of science

due to editing the magazine PIkasle together with Ricardo Grande.

1st prize in the category of social sciences and legal studies

due to wining the IV University Debate League of the G9 Group

together with fellow teammates.

Awarding Institution: University of the Basque Country (UPV/EHU)

Date: 29/11/2012

## Winner in the IV Liga de Debate Universitario Grupo G9

(IV University Debate League of the G9 Group)

Description: Competition of debate between several universities in the G9 University Group

Team: Ion Baratas Leire Caballero Jesús Ángel Ibarreche

Juan Sandín

Josué Tonelli-Cueto

Hosting institution: University of Oviedo

Date: 29/02/2012-02/03/2012

## Accésit en el Concurso de trabajos sobre Sofía Kovalevskaya

(Special Mention in the contest of works about Sophia Kovalevskaya)
Awarding Institution: University of the Basque Country (UPV/EHU)

Date: 24/06/2011

#### **PUBLICATIONS**

## **Preprints**

- [1] P. Bürgisser, F. Cucker, and J. Tonelli-Cueto. Computing the Homology of Semialgebraic Sets. II: General formulas. March 2019. arXiv:1903.10710.
- [2] P. Bürgisser, A. A. Ergür, and J. Tonelli-Cueto. On the Number of Real Zeros of Random Fewnomials. April 2019. To appear at SIAM Journal on Applied Algebra and Geometry (SIAGA). arXiv:1811.09425v3.

- [3] P. Bürgisser, F. Cucker, and J. Tonelli-Cueto. Computing the Homology of Semialgebraic Sets. I: Lax Formulas. *Foundations of Computational Mathematics*, May 2019. arXiv:1807.06435v3.
- [4] F. Cucker, A. A. Ergür, and J. Tonelli-Cueto. Plantinga-Vegter Algorithm Takes Average Polynomial Time. In *Proceedings of the 2019 on International Symposium on Symbolic and Algebraic Computation*, ISSAC '19, pages 114–121. ACM, New York, 2019. arXiv:1901.09234v2.

#### TALKS AND OTHER PRESENTATIONS

## Conference presentations

## **Opening Conference of the Thematic Einstein Semester on Algebraic Geometry** (2019)

Given talk: What is the probabilistic analysis of a condition number?

## **Complexity of Numerical Computation: A conference in honor of Felipe Cucker** (2019)

Given talk: Average minus Weak Complexity equals Adaptive algorithms Sets

ISSAC 2019 (2019)

Given talk: Plantinga-Vegter algorithm takes average polynomial time

## SIAM Conference on Applied Algebraic Geometry 2019 (2019)

Given talk: Farewell to Weyl: Condition-based analysis

with a Banach norm in numerical algebraic geometry

## Workshop MEGAR 2019: Effective Methods in Real Algebraic Geometry (2019)

Given talk: Numerical Computation of Homology Groups of Closed Semialgebraic Sets

2nd BYMAT Conference (2018)

Given talk: How many zeros does a random fewnomial system have?

## 7th BMS Student Conference (2019)

Given talk: How many zeros does a random fewnomial system have?

## Random Real Algebraic Geometry Workshop (2019)

Given talk: On Zeros of Random Fewnomials (5 talks series)

#### 1st BYMAT Conference (2018)

Given talk: Computing the Homology of Closed Semialgebraic Sets

## 6th BMS Student Conference (2018)

Given talk: The Niyogi-Smale-Weinberger Approximation Theorem

## Workshop "Algebra meets Numerics: Condition and Complexity" (2017)

Given talk: Computing the Homology of General Semialgebraic Sets

## Workshop "Reading Group on Real Algebraic Geometry" (2017)

Given talk: Random real Schubert Calculus and lines on surfaces

## **5th BMS Student Conference** (2017)

Given talk: The shadow of the hidden combinatorics of completely positive operators

on Polynomial Identity Testing

Last update: December 3, 2019

#### Invited seminar talks

## Algebra Seminar of the "Groups, Topology and Applications" Research Group of the UPV/EHU

Given talk: Computing the Homology of Semialgebraic Sets in Weak Exponential Time

Institution: University of the Basque Country (UPV/EHU)

Location: Leioa, Spain Date: 02/05/2019

## Colloquium of the Graduiertekolleg "Facets of Complexity" (GRK 2434)

Given talk: Condition meets Computational Geometry: The Plantinga-Vegter algorithm case

Institution: Freie Universit"at Berlin

Location: Berlin, Germany Date: 11/04/2019

## Oberseminar des Institut für Algebra und Geometrie der OvGU

(Seminar of the Faculty of Algebra and Geometry of the OvGU)
Given talk: Computing the Homology of Semialgebraic Sets
Institution: Otto von Guericke Universität Magdeburg (OvGU)

Location: Magdeburg, Germany

Date: 16/01/2018

## Seminario del Departamento de Matemáticas de la UPV/EHU

(Seminar of the Departmen of Mathematics of the UPV/EHU)

Given talk: Sobre la complejidad de algunos problemas de pertencia al cono nulo

Institution: University of the Basque Country (UPV/EHU)

Location: Leioa, Spain Date: 09/01/2017

Posters

## **MEGA 2019: Effective Methods in Algebraic Geometry** (2019)

Poster: Computing the Homology Groups of Closed Semialgebraic Sets in Weak Exponential Time

## 2nd Graduate Student Meeting on Applied Algebra and Combinatorics (2019)

Poster: Computing the Homology Groups of Semialgebraic Sets

## Congreso Bienal de la Real Sociedad Matemática Española 2019 (2019)

Poster: Computing the Homology Groups of Semialgebraic Sets in Weak Exponential Time

## Summer School on Numerical Computating in Algebraic Geometry (2018)

Poster: Computing the Homology Groups of Semialgebraic Sets

## **QMath Masterclass on "Tensors: Geometry and Quantum Information"** (2018)

Poster: Polynomial Identity Testing and the Combinatorics of Completely Positive Operators

## Symposium "Bridging European Science II" (2018)

Poster: Computing the "Shape" of Semialgebraic Sets

Other

## **"What is...?" Seminar** (2018)

Given talk: What is the best voting system?

## **"What is...?" Seminar** (2018)

Given talk: What are semialgebraic sets in context?

## **"What is...?" Seminar** (2017)

Given talk: What are BPP, RP and the other probabilistic complexity classes?

#### **"What is...?" Seminar** (2017)

Given talk: What is the length of a potato?

## **"What is...?" Seminar** (2016)

Given talk: What is an Origami Constructible Number?

#### **ORGANIZED ACTIVITIES**

"What is...?" Seminar

Description: Student organized seminar where

a new concept, idea or object is introduced in each session

Role: Co-organizer, web design and video management

Institution: Berlin Mathematical School (BMS)

Location: Berlin, Germany Date: 05/2016-12/2019

Minisymposium Numerical methods for structured polynomial system solving

at SIAM Conference on Applied Algebraic Geometry 2019

Organizer: Alperen A. Ergür

Pierre Lairez

Gregorio Malajovich Josué Tonelli-Cueto

Hosting Institution: Universität Bermn

Location: Bern, Switzerland

Date: 09/07/2019-12/07/2019

**6th BMS Student Conference** 

Organizer: 2017 BMS Student Representatives Hosting Institution: Berlin Mathematical School (BMS)

Location: Berlin, Germany

Date: 21/02/2018-23/02/2018

#### TEACHING EXPERIENCE

Effective Algebraic Geometry Seminar

Role: Organizer (together with Peter Bürgisser and Alperen Ali Ergür)

Teaching load: 12 hours

Organizing group: Fachgebiet Algorithmische Algebra

Institution: Technische Universität Berlin

Date: 18/04/2018-19/07/2018

**Private Remedial Teacher** 

Description: Private lessons to groups of undergraduate students

Courses: 1st year Linear Algebra for mathematicians

2nd year Linear Algebra for mathematicians 1st year Mathematics for non-mathematicians

Teaching load: Approx. 156 hours

Institution: Centro de Estudios INTEC

Date: 10/2013-05/2014

"Group of units in complete discrete valuation rings" Course

Role: Lecturer Teaching load: 4 hours

Organizing group: GRECA Research Group

Institution: Faculty of Science and Technology (ZTF-FCT)

of the University of the Basque Country (UPV/EHU)

Date: 11/02/2014-14/02/2014

"P vs. NP and related topics" Seminar

Description: Seminar covering some concepts in complexity theory

Role: Co-organizer (together with Luis Martínez) and main lecturer

Teaching load: 30 hours

Organizing entity: Asociación de Estudiantes de Matemáticas Epsilon-Delta Matematika Ikasleen Elkartea

Institution: Faculty of Science and Technology (ZTF-FCT)

of the University of the Basque Country (UPV/EHU)

Date: 11/2012-05/2013

## POPULARIZATION OF MATHEMATICS AND SCIENCE

## Projects and organized activities

#### Revista $\pi kasle$ Aldizkaria

(Mathematics Students' Magazine  $\pi kasle$ )

ISSN: 2174-9027 (digital edition)

2255-5714 (printed edition)

Ricardo Grande Founders:

Josué Tonelli-Cueto

Member of the Editorial Committee Role:

Cover designer and desktop publisher (from the 1st to the 9th issue)

Social media manager

Recognitions: First prize in the

III Premios al alumnado que mejor ha difundido la imagen de la UPV/EHU

Honor Mention in the 14th Edition of Ciencia en Acción

Faculty of Science and Technology (ZTF-FCT) **Hosting Institution:** 

of the University of the Basque Country (UPV/EHU)

09/2011-07/2014 Date:

πkasle's Mathematics, Magic and Mystery Workshop

Workshop covering topics related to magic and mathematics Description:

Organizing entity: Revista  $\pi kasle$  Aldizkaria Organizer: Ricardo Grande Izquierdo

Josué Tonelli-Cueto

Speakers: Pedro Alegría Ezquerra

Juan Carlos Ruiz de Arcaute

Faculty of Science and Technology (ZTF-FCT) **Hosting Institution:** 

of the University of the Basque Country (UPV/EHU)

Location: Leioa, Spain

09/05/2014 and 30/05/2014 Dates:

πkasle's Martin Gardner Celebration of Mind

Description: Day of activities in commemoration of Martin Gardner

Organizing entity: Revista  $\pi kasle$  Aldizkaria

Organizer: Josué Tonelli-Cueto

Hosting Institution: Faculty of Science and Technology (ZTF-FCT)

of the University of the Basque Country (UPV/EHU)

Location: Leioa, Spain Dates: 23/10/2013

#### Articles

[5] J. Tonelli-Cueto. Emmy Noether, un retrato alfabético [Spanish] (Emmy Noether, an alphabetic portrait). Blog "mujeres con ciencia", October 2015.

Tour Guide at the Astronomia Emakume/Con 'A' de Astrónomas Exhibition

Description: Exhibition about female astronomers and astronomy

Curator: Eulalia Pérez Sedeño

Josefina Ling

Organizer: Marta Macho

Raúl Ibañez Pedro Alegría

Hosting institution: University of the Basque Country (UPV/EHU)

Location: Bilbao, Spain

Dates: 06/10/2011-11/11/2011

Web page: www.ehu.es/astronomasbilbao/
Tour Guide at the RSME-IMAGINARY BILBAO Exhibition

Description: Spanish tour of the exhibition *IMAGINARY* about algebraic surfaces

Organizing entity: Real Sociedad Matemática Española (RSME)

Organizer: Marta Macho

Raúl Ibañez Pedro Alegría

Hosting institution: University of the Basque Country (UPV/EHU)

Location: Bilbao, Spain

Dates: 05/05/2011-26/05/2011 Web page: www.ehu.es/imaginary/

#### **SERVICE**

## Vocal Estudiante del Comité de Evaluación de Titulaciones de UNIBASQ en el Area de Ciencias

(Student Vocal of the Committee of Evaluation of Degrees of UNIBASQ in the Area of Science)

Description: Elaboration of evaluation reports of science degrees

taught in the Basque University System

Institution: Agency for Quality of the Basque University System (UNIBASQ)

Date: 04/2015-03/2018

**BMS Student Representative** 

Institution: Berlin Mathematical School (BMS)

Dates: 01/2017-12/2017

## Asociación de Estudiantes de Matemáticas Epsilon-Delta Matematika Ikasleen Elkartea

(An association of mathematics students in the University of the Basque Country)

Labour: Secretary

Dates: 09/2012-05/2013

#### **ACTIVITIES**

## Research Stays

#### **Research Visit to Elias Tsigaridas in France**

Goal: Discussion for future projects

Institution: LIP6 (Laboratorie d'Informatique de Paris 6)

Location: Paris, France

Dates: 12/05/2019-17/05/2019

#### **Research Stay with Felipe Cucker in Hong Kong**

Goal: Working with one of the PhD advisors

Institution: CityU Hong Kong
Location: Hong Kong, China
Dates: 15/03/2019-01/04/2019

## Research Visit to Nicolai Vorobjov in England

Goal: Discussion of a theorem of Gabrielov and Vorobjov related to the PhD work

Institution: University of Bath Location: Bath, England

Dates: 27/10/2018-03/11/2018

## Research Stay with Felipe Cucker in France

Goal: Working with one of the PhD advisors

Location: Tuleries d'Affiac, France Dates: 01/10/2018-15/10/2018

## Research Stay with Felipe Cucker in Hong Kong

Goal: Working with one of the PhD advisors

Institution: CityU Hong Kong Location: Hong Kong, China Dates: 10/04/2018-28/04/2018

## Research Stay with Felipe Cucker in Hong Kong

Goal: Working with one of the PhD advisors

Institution: CityU Hong Kong
Location: Hong Kong, China
Dates: 21/11/2017-08/12/2017

## Research Stay with Felipe Cucker in Hong Kong

Goal: Working with one of the PhD advisors

Institution: CityU Hong Kong
Location: Hong Kong, China
Dates: 13/01/2017-26/01/2017

Attended conferences

## **Opening Conference of the Thematic Einstein Semester on Algebraic Geometry**

Organizer: Mario Kummer

Angela Ortega Andrea Petracci Karin Schaller

Hosting Institution: Freie Universität Berlin

Location: Berlin, Germany

Date: 07/10/2019-11/10/2019

## Complexity of Numerical Computation: A conference in honor of Felipe Cucker

Organizer: Peter Bürgisser

Teresa Krick Javier Peña Stephen Smale

Hosting Institution: Berlin-Brandenburgische Akademie der Wissenschaften

Location: Berlin, Germany

Date: 03/06/2019-05/06/2019

## 44th International Symposium on Symbolic and Algebraic Computations (ISSAC 2019)

Organizer: James Davenport and Dongming Wang (General Chairs)

Hosting Institution: Beihang University

Location: Beijing, China

Date: 15/07/2019-18/07/2019

SIAM Conference on Applied Algebraic Geometry 2019

Organizer: Sandra Di Rocco and Caroline Uhler (Conference Co-Chairs)

Hosting Institution: Universität Bern

Location: Bern, Switzerland

Date: 09/07/2019-13/07/2019

Workshop MEGAR 2019: Effective Methods in Real Algebraic Geometry

Organizer: Mariemi Alonso

Carlos Andradas Antonio Díaz-Cano M. Jesús de la Puente

M. Pilar Vélez M. Ángeles Zurro

Universidad Complutense de Madrid Hosting Institution:

> Location: Madrid, Spain

> > 21/06/2019-22/06/2019 Date:

**MEGA 2019: Effective Methods in Algebraic Geometry** 

Theobald Thorstein (Chair) Organizer:

Mariemi Alonso (Local Chair)

Carlos D'Andra Alessandra bernardi Frederic Bihan Sandra Di Rocco Mauricio Velasco Josephine Yu

Universidad Complutense de Madrid Hosting Institution:

> Location: Madrid, Spain

> > 17/06/2019-21/06/2019 Date:

Noether Konferenz 2019: Wie kommt das Neue in die Welt?

(Noether Conference 2019: How does the New come in the World?)

Berlin Mathematics Research Center MATH+ Organizer:

Zentrale Frauenbeauftragte der Freien Universität Berlin

Max-Plank-Institut für Wissenschaftesgeschichte

Location: Berlin, Germany

03/06/2019-05/06/2019 Date:

**2nd BYMAT Conference** 

Organizer: Alberto Redondo Hernández

Ángela Capel

Blanca Fernández Besoy

Jesús Ocáriz

Makrina Agaoglou

Patricia Conteras-Tejada

Roi Naveiro Teresa Luque

Hosting Institution: Instituto de Ciencias Matemáticas (ICMAT)

Location: Madrid, Spain

Date: 20/05/2019-24/05/2019

7th BMS Student Conference

Organizer: Simona Boyadzhiyska

Candan Güdücü Michael Rothgang Massimo Secci Nicola Vassena

Hosting Institution: Berlin Mathematical School (BMS)

Location: Berlin, Germany

Date: 20/02/2019-22/02/2019

2nd Graduate Student Meeting on Applied Algebra and Combinatorics

Organizer: Tim Seynnaeve

Rodica Dinu Giulia Codenotti Frank Röttger

Hosting Institution: Max-Plank-Institut für Mathematik in der Naturwissenschaften

Location: Leipzig, Germany
Date: 18/02/2019-20/02/2019

Congreso Bienal de la Real Sociedad Matemática Española 2019

(Biennial Congress of the Spanish Royal Mathematical Society)

Organizer: Real Sociedad Matemática Española (RSME)

Hosting Institution: Universidad de Cantabria (UC)

Location: Santander, Spain

Date: 04/02/2019-08/02/2019

Random Real Algebraic Geometry Workshop

Organizer: Ali Ula Özgür Kiisel

Hosting Institution: Nesin Matematik Köyü (Nesin Mathematical Village)

Location: Nesin Matematik Köyü, Turkey

Date: 21/01/2019-27/01/2019

6th Heidelberg Laureate Forum

Organizer: Heidelberg Laureate Forum Foundation (HLFF)

Hosting Institution: Heidelberg University

Location: Heidelberg, Germany Date: 23/09/2018-28/09/2018

**Summer School on Numerical Computing in Algebraic Geometry** 

Organizer: Mario Kummer

Paul Breiding Yue Ren Emre Sertöz

Hosting Institution: Max-Plank-Institut für Mathematik in der Naturwissenschaften

Location: Leipzig, Germany
Date: 13/08/2018-17/08/2018

**QMath Masterclass on "Tensors: Geometry and Quantum Information"** 

Organizer: Centre for the Mathematics of Quantum Theory (QMATH)

Niels Bohr International Academy (NBIA)

Hosting Institution: University of Copenhagen

Location: Copenhagen, Denmark
Date: 18/06/2018-22/06/2018

Workshop "Optimization, Complexity and Invariant Theory"

Organizer: Avi Wigderson

Hosting Institution: Institute for Advance Studies (IAS)

Location: Princeton, USA

Date: 04/06/2018-08/06/2018

Symposium "Bridging European Science II"

Organizer: Sociedad de Científicos Españoles en la República Federal de Alemania (CERFA)

Comunidad de Científicios Españoles en Dinamarca (CED) Asociación de Científicios Españoles en Suecia (CED)

Hosting Institution: Spanish Ambassy in Berlin

Location: Berlin, Germany Date: 02/06/2018

**1st BYMAT Conference** 

Organizer: David Alfaya

Ángela Capel

Patricia Conteras-Tejada

Roi Naveiro Jesús Ocáriz

Hosting Institution: Instituto de Ciencias Matemáticas (ICMAT)

Location: Madrid, Spain

Date: 07/05/2018-09/05/2018

Workshop "Algebra meets Numerics: Condition and Complexity"

Organizer: Peter Bürgisser

Felipe Cucker

Hosting Institution: Technische Universität Berlin

Location: Berlin, Germany

Date: 06/11/2017-07/11/2017

FoCM 2017 Conference (Blocks B and C)

Organizer: FoCM Society

Hosting Institution: Universitat de Barcelona

Location: Barcelona, Spain

Date: 13/07/2017-19/07/2017

Workshop "Reading Group on Real Algebraic Geometry"

Organizer: Kristin Shaw

Rainer Sinn Mario Kummer

Hosting Institution: Max-Plank-Institut für Mathematik in der Naturwissenschaften

Location: Leipzig, Germany

Date: 03/07/2017-07/07/2017

Workshop "Polynomials and Polytopes"

Organizer: Bernd Sturmfels

Timo de Wolff

Hosting Institution: Technische Universität Berlin

Location: Berlin, Germany

Date: 10/06/2017

**Chow Lectures 2017** 

Organizer: Karim Adiprasito

Christian Lehn Mateusz Michalek Matthias Schwarz

Hosting Institution: Max-Plank-Institut für Mathematik in der Naturwissenschaften

Location: Leipzig, Germany
Date: 22/05/2017-24/05/2017

**BCAM Course "Quantum Information Theory"** 

Organizer: Anna Vershynina

Hosting Institution: Basque Center for Applied Mathematics (BCAM)

Location: Bilbao, Spain

Date: 13/03/2017-17/03/2017

**5th BMS Student Conference** 

Organizer: Qianheng Chen

Jan Hackfeld Lauri Loiskekoski Alexandra Munteanu

András Tóbiás

Hosting Institution: Berlin Mathematical School (BMS)

Location: Berlin, Germany

Date: 22/02/2017-24/02/2017

Workshop "Tensors: Algebra meets Numerics"

Organizer: Wolfgang Hackbusch

Bernd Sturmfels André Uschmajew

Hosting Institution: Max-Plank-Institut für Mathematik in der Naturwissenschaften

Location: Leipzig, Germany

Date: 12/12/2016-14/12/2016

7th European Congress of Mathematics

Organizer: Deutsche Mathematiker-Vereinigung (DMV)

Gesellschaft für Angewandte Mathematik und Mechanik (GAMM)

MATHEON ECMath

Berlin Mathematical School (BMS)

Hosting Institution: Technische Universität Berlin

Location: Berlin, Germany

Date: 18/07/2016-22/07/2016

4th BMS Student Conference

Organizer: Daniele Agostini

Mark Curran

Efstathia Katsigianni Eva Martínez Romero

Nevena Pali

Hosting Institution: Berlin Mathematical School (BMS)

Location: Berlin, Germany

Date: 17/02/2016-19/02/2016

Hilbert Bernays Summer School on Logic and Computation

Organizer: Georg-August-Universität Göttingen

Hosting Institution: Georg-August-Universität Göttingen

Location: Göttingen, Germany
Date: 26/07/2015-01/08/2015

2015 Santaló Summer School on "Number theory and arithmetic geometry"

Organizer: RSME (Real Sociedad Matemática Española)

Universidad Internacional Menéndez Pelayo (UIMP)

Hosting Institution: UIMP

Location: Santander, Spain

Date: 13/07/2015-17/07/2015

BMS Summer School 2015 on "Convex geometry – discrete and computational"

Organizer: Martin Henk

Raman Sanyal

Hosting Institution: Berlin Mathematical School (BMS)

Location: Berlin, Germany

Date: 29/06/2015-10/07/2015

Homological Algebra Workshop

Organizer: Andrei Jaikin

Jon González

Hosting Institution: Instituto de Ciencias Matemáticas (ICMAT)

Location: Madrid, Spain

Date: 02/03/2015-06/03/2015

**3rd BMS Student Conference** 

Organizer: Irena Bojarovska

Gregor Bruns Juan Orduz Emre Sertöz

Hosting Institution: Berlin Mathematical School (BMS)

Location: Berlin, Germany

Date: 18/02/2015-20/02/2015

10th AIMS Conference on Dynamical Systems, Differential Equations and Applications

Organizers: American Institute of Mathematical Sciences (AIMS)

Instituto de Ciencias Matemáticas (ICMAT) Universidad Autónoma de Madrid (UAM) University of North Carolina at Wilmington

Location: Madrid, Spain

Date: 07/07/2014-11/07/2014

Note: Attended as student volunteer

First Joint International Meeting of the Italian and Spanish Mathematical Societies

Societies: RSME (Royal Spanish Mathematical Society)

SCM (Catalan Mathematical Society)

SEMA (Spanish Society for Applied Mathematics)

SIMAI (Italian Society for Applied and Industrial Mathematics)

UMI (Italian Mathematical Union)

Institution: University of the Basque Country (UPV/EHU)

Location: Bilbao and Leioa, Spain
Date: 30/06/2014-04/07/2014
Note: Attended as student volum

Note: Attended as student volunteer

**2nd BMS Student Conference** 

Organizer: BMS Student Representatives

Hosting Institution: Berlin Mathematical School (BMS)

Location: Berlin, Germany

Date: 19/02/2014-21/02/2014

VI Edición de la Escuela JAE de Matemáticas

(6th Edition of the JAE School of Mathematics)

Organizer: Instituto de Ciencias Matemáticas (ICMAT)

Hosting Institution: ICMAT

Location: Madrid, Spain

Date: 01/07/2013-26/07/2013

#### XIII Encuentro Nacional de Estudiantes de Matemáticas

(XIII (Spanish) National Meeting of Mathematics Students)

Organizer: Asociaci'on Nacional de Estudiantes de Matem'aticas (ANEM)

((Spanish) National Association of Students of Mathematics)

Location: Murcia, Spain

Date: 23/07/2012-29/07/2012

## **Undergraduate Summer School Program of the**

## 2012 PCMI Summer Session "Geometric Group Theory"

Organizer: Aaron Bertram

Hosting Institution: IAS/Park City Mathematics Institute (PCMI)

Location: Park City, USA

Date: 01/07/2012-21/07/2012

## Curso de Teoría de Grafos aplicando el método de Moore

(Graph Theory Course applying Moore's Method)

Organizer: Luis Martínez Fernández

Hosting Institution: Faculty of Science and Technology (ZTF-FCT)

of the University of the Basque Country (UPV/EHU)

Location: Leioa, Spain Date: 09/2011-12/2011

## **Undergraduate Summer School Program of the**

## 2011 PCMI Summer Session "Moduli Spaces of Riemann Surfaces"

Organizer: Andrew Bernoff

Aaron Bertram

Hosting Institution: IAS/Park City Mathematics Institute (PCMI)

Location: Park City, USA

Date: 03/07/2011-23/07/2011

## Coloquio RSME 2011: Las dos ideas de Sofia Kovalevskaya

(Colloquia RSME 2011: The Two Ideas of Sofia Kovalevskaya)

Organizer: RSME (Royal Spanish Mathematical Society)
Hosting Institution: University of the Basque Country (UPV/EHU)

Speaker: Michèle Audin Location: Bilbao, Spain Date: 24/06/2011

Jornadas RSME 2011: Los Problemas del Milenio

(Conferences RSME 2011: The Millennium Prize Problems)

Organizer: RSME (Royal Spanish Mathematical Society)

Hosting Institution: Universitat de Barcelona (UB)

Location: Barcelona, Spain
Date: 01/06/2011-03/06/2011

Other

## Science+ 2017, ERA Career Day Bilbao

Description: Career days where

talks and information about professional possibilities for scientists where given

Organizer: Chair of Scientific Culture of the University of the Basque Country

Bizkaia Talent

Spanish Foundation for Science and Technology (FECYT)

Institution: University of the Basque Country (UPV/EHU)

Location: Bilbao, Spain

Dates: 18/09/2017-20/09/2017

#### Participant at Slam the library #2 - Poetry Slam

Description: Poetry slam organized as part of the Lange Nacht der Wissenschaften in Berlin

Participation under the pseudonym *Iasafro Maesman* obtaining the 2nd place

Institution: University Library of the TU Berlin and UdK

Place: Berlin, Germany Date: 06/06/2016

## **Reflejo de Palabras** (Reflection of words)

## at the Exhibition Reflejos. Proyecto experimental entre artistas y escritores.

Creator: María Jesús Cueto Puente

Josué Tonelli-Cueto Curator: Marina Gurruchaga

Rosario de Gorostegui

Institution: Biblioteca Central de Cantabria

Place: Santander, Spain
Date: 10/10/2014-04/11/2014

## Curso H.1 ¿Qué hay que enseñar hoy en la escuela?

(Course H.1 What should be taught in school today?)

XXXIII Cursos de Verano de la UPV/EHU (XXXIII Summer Courses of the UPV/EHU)

Organizer: University of the Basque Country(UPV/EHU)

Directors: Paulí Dávila Balsera

Jaume Carbonell Sebarroja

Location: Donostia-San Sebastián, Spain

Dates: 25/06/2014-27/06/2014

## Workshop 6.1 "Once upon a time..." Techniques for Storytelling in English

XXXIII Cursos de Verano de la UPV/EHU (XXXIII Summer Courses of the UPV/EHU)

Organizer: University of the Basque Country(UPV/EHU)

Director: Diana Lindsay

Location: Donostia-San Sebastián, Spain

Dates: 23/06/2014-24/06/2014

## Curso "Cognición comparada entre chimpancés y humanos"

("Compared cognition between chimpanzees and humans" Course)

Organizers: "Bionatur" Biology Students' Association

Official Professional Association of Biologists of the Basque Country

Psycology Official Professional Association of Biscay Faculty of Science and Technology of the UPV/EHU

Speaker: Miquel Llorente Espino

Location: Bilbao, Spain Dates: 09/05/2014

#### Talentia Programme 2013-14 of Bizkaia Talent

Description: Activities and talks for career development of students

Organizer: Bizkaia Talent

Location: Province of Biscay, Spain

Dates: 01/2014-06/2014

## II. Simposio UNIBASQ. La Calidad del Sistema Universitario Vasco: La Perspectiva de los Usuarios

(2nd UNIBASO Symposium, The Quality of the Basque University System: The perspective of the User)

Organizing institution: Agency for Quality of the Basque University System (UNIBASQ)

Location: Bilbao, Spain Dates: 16/10/2013

## Poetry Recital at the opening of the exhibition Proyecto Trait D'Union

Curator: Matteo Acarrino

Carmela Claps

María Jesús Cueto Puente

Institution: Observatorio del Arte

Place: Arnuero, Spain Date: 31/08/2012

## Scientific Olympiads

## Gold Medal in the XIV Olimpiada Iberoamericana de Física

(XIV Iberoamerican Physics Olympiad)

Hosting institution: Sociedad Chilena de Física

Date: 03/10/2009

# Silver Medal and Special McGraw-Hill award to the best resolution of the theoretical part in the XX Olimpiada Española de Física

(XX Spanish Physics Olympiad)

Hosting institution: Public University of Navarra

Date: 27/04/2009

## Bronze Medal in the XLV Olimpiada Matemática Española

(XLV Spanish Mathematical Olympiad)

Hosting institution: University of Girona (UdG)

Universitat Politècnica de Catalunya (UPC)

Date: 28/03/2009

#### **LANGUAGES**

Spanish	Native
English	C1
Euskera (Basque)	A2-B1
Deutsch	A2-B1

The levels given follow the Common European Framework of Reference for Languages. In this framework, the levels are, from lowest to highest, A1, A2, B1, B2, C1 and C2. The B1 level indicates *Vantage Independent Use*, the C1 level *Effective Operational Proficiency* of the language and the C2 level *Mastery* of it.

## REFERENCES

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