

# Annamaria IEZZI

## Curriculum Vitae et Studiorum

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### Personal Information

Annamaria Iezzi, born in Teramo (Italy) on January 19, 1989. Citizenship: Italian.

### Research interests

Algebraic geometry over finite fields (algebraic curves, number of rational points, function fields, elliptic curves, abelian surfaces, etc.), algebraic and computational number theory, cryptography (isogeny-based cryptography, post-quantum cryptography), coding theory (algebraic geometric codes).

### Employment

- 11/23 – **Maîtresse de Conférences** in Applied Mathematics - Laboratoire Jean Kuntzmann (équipe CAS3C3), Université Grenoble Alpes, Grenoble.
- 01/22 – 10/23 **Ricercatrice di tipo A** in MAT/03 - Geometry ~ **Post-doc** - Dipartimento di Matematica e Applicazioni "Renato Caccioppoli", Università degli Studi di Napoli Federico II, Napoli.
- 09/20 – 12/21 **ATER** (Attachée Temporaire d'Enseignement et de Recherche) ~ **Visiting assistant professor** - Laboratoire GAATI (Géométrie Algébrique et Applications à la Théorie de l'Information), Université de la Polynésie Française, Tahiti.
- 08/17 – 08/20 **Postdoctoral Scholar Researcher** - Department of Mathematics & Statistics, University of South Florida, Tampa.
- 09/15 – 08/17 **ATER** (Attachée Temporaire d'Enseignement et de Recherche) ~ **Visiting assistant professor** - Institut de Mathématiques de Marseille (I2M), Aix-Marseille Université, Marseille.
- 10/13 – 09/15 **Monitorat** ~ **Teaching assistant** - Institut de Mathématiques de Marseille (I2M), Aix-Marseille Université, Marseille.

### Education

- 02/2022 **French Qualification** to become a Maître de Conférences in section CNU 25 (Mathematics).
- 11/12 – 07/16 **Ph.D. in Mathematics**, Aix-Marseille Université (*grant of LabEx Archimède*).  
Title of the thesis: *Number of rational points on singular curves over finite fields*.  
Supervisor: Yves Aubry.
- 09/10 – 07/12 **M.S. cum laude in Mathematics**, Università degli Studi di Roma Tre, Rome.  
Title of the master's thesis: *Almost Dedekind domains*.  
Supervisor: Stefania Gabelli.
- 09/11 – 01/12 **Five-months Erasmus Exchange Program**, Université d'Aix-Marseille II, Marseille, within the master *Mathématiques Discrètes et Fondements de l'Informatique*.
- 09/07 – 07/10 **B.S. cum laude in Mathematics**, Università degli Studi di Roma Tre, Roma.

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## Publications

### Research

#### Preprint

- [9] S. Anni, G. Bisson, [A. Iezzi](#), E. Lorenzo García, B. Wesolowski. - *On the computation of endomorphism rings of abelian surfaces over finite fields* (2025). <http://arxiv.org/abs/2503.08925>.

#### Published

- [8] J. Fuselier, [A. Iezzi](#), M. Kozek, T. Morrison, C. Namoiijam, - *Computing supersingular endomorphism rings using inseparable endomorphisms*. Journal of Algebra, Volume 668, pp 145–189, (2025). <https://doi.org/10.1016/j.jalgebra.2025.01.012>.
- [7] [A. Iezzi](#), M. Q. Kawakita, M. Timpanella, - *New sextics of genus 6 and 10 attaining the Serre bound*. Advances in Geometry, vol. 24, no. 1, pp. 99-109 (2024). <https://doi.org/10.1515/advgeom-2023-0031>.
- [6] L. Amorós, [A. Iezzi](#), K. Lauter, C. Martindale, J. Sotáková - *Explicit connections between supersingular isogeny graphs and Bruhat-Tits trees*. Women in Numbers Europe III: Research Directions in Number Theory. Association for Women in Mathematics Series, vol 24. Springer, Cham, pp 39–73 (2021), [https://doi.org/10.1007/978-3-030-77700-5\\_2](https://doi.org/10.1007/978-3-030-77700-5_2).
- [5] X.-d. Hou, [A. Iezzi](#) - *An application of the Hasse-Weil bound to rational functions over finite fields*, Acta Arith. 195, no. 2, 207-216 (2020), <https://doi.org/10.4064/aa190701-5-12>.
- [4] J.-F. Biasse, [A. Iezzi](#), M. Jacobson Jr. - *A note on the security of CSIDH*, Progress in Cryptology - INDOCRYPT 2018, Proceedings, Security and Cryptology, vol. 11356, Springer, pp. 153-168 (2018), [https://doi.org/10.1007/978-3-030-05378-9\\_9](https://doi.org/10.1007/978-3-030-05378-9_9).
- [3] Y. Aubry, [A. Iezzi](#) - *Optimal and maximal singular curves*, Contemporary Mathematics, 686, Amer. Math. Soc., pp. 31-43 (2017), <https://doi.org/10.1090/conm/686>.
- [2] [A. Iezzi](#) - *Nombre de points rationnels des courbes singulières sur les corps finis*, Tesi di dottorato.
- [1] Y. Aubry, [A. Iezzi](#) - *On the maximal number of points on singular curves over finite fields*, Mosc. Math. J. 15, no. 4 pp. 615-627 (2015), <https://doi.org/10.17323/1609-4514-2015-15-4-615-627>.

### Outreach

- [1] E. Berardini, J. Cohen, G. Geoffroy, [A. Iezzi](#): *Pi Day: An International Festival of Mathematics*. EMS Newsl. 3 (2018), 36-37, <https://doi.org/10.4171/NEWS/107/8>.

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## Talks

### Research talks - International conferences

- 16/07/2024 *How fast can we compute the endomorphism ring of a supersingular elliptic curve?*, XXVII Escola de Álgebra, IME-USP, São Paulo, Brazil.
- 06/06/2024 *Decomposing Jacobians to get curves with many rational points*, Combinatorics2024, Carovigno, Italy.
- 18/04/2024 *Recent advances on the Supersingular Endomorphism Ring Problem*, The eighth mini symposium of the Roman Number Theory Association, Rome, Italy.
- 08/12/2023 *On the supersingular endomorphism ring problem*, International Conference on Algebraic Geometry, Coding Theory and Combinatorics, Hyderabad, India.
- 11/07/2023 *Computing supersingular endomorphism rings using inseparable endomorphisms*, SIAM Conference on Applied Algebraic Geometry (AG23), Eindhoven, Netherlands.
- 22/06/2023 *Kani-Rosen theorem, a tool for finding maximal curves*, 15th International Conference on Finite Fields and Their Applications (Fq15), Paris, France.

- 01/03/2023 *Computing supersingular endomorphism rings using inseparable endomorphisms*, Computations and their Use in Number Theory (COUNT), CIRM, Marseille, France.
- 16/07/2022 *Computing the endomorphism ring of a supersingular elliptic curve*, Coding theory and cryptography, a conference in honor of Joachim Rosenthal's 60th birthday, Zurich, Switzerland.
- 30/06/2022 *Computing the endomorphism ring of a supersingular elliptic curve*, Jornadas de Teoría de Números, Logroño, Spain.
- 18/06/2022 *Computing the endomorphism ring of a supersingular elliptic curve*, AWM (Association for Women in Mathematics) Research Symposium, Minneapolis, United States. (online)
- 01/06/2022 *Finding cycles in the supersingular isogeny graph*, Combinatorics 2022, Mantova, Italy.
- 22/09/2021 *Bruhat–Tits trees as a cryptanalytic tool for isogeny-based cryptography*, First Annual Conference in Cryptography and Coding Theory Conferenza Annuale in Crittografia e Codici, organised by the Unione Matematica Italiana (UMI) and the initiative De Componendis Cifris. (online)
- 01/06/2021 *Can we use Bruhat–Tits trees to better understand supersingular isogeny graphs?*, Arithmetic, Geometry, Cryptography and Coding Theory (AGC<sup>2</sup>T), virtually at CIRM, Marseille. (online)
- 12/06/2019 *An application of the Hasse–Weil bound to rational functions over finite fields*, Arithmetic, Geometry, Cryptography and Coding Theory (AGC<sup>2</sup>T17), CIRM, Marseille, France.
- 07/06/2019 *An application of the Hasse–Weil bound to rational functions over finite fields*, Finite Fields and their Applications (Fq14), Vancouver, Canada.
- 11/12/2018 *A note on the security of CSIDH*, Indocrypt 2018, New Delhi, India.
- 18/05/2015 *Towards maximal singular curves over finite field*, Arithmetics, Geometry, Cryptography and Coding Theory (AGCT), CIRM, Marseille.
- 11/06/2014 *Singular curves over finite fields with many rational points*, Yet Another Conference on Cryptography (YACC), Porquerolles Island, France.
- 12/05/2014 *Singular curves over finite fields with many rational points*, Antalya Algebra Days XVI, Antalya, Turkey.

### Research talks - Meetings and seminars

- 07/04/2025 Talk 1: *Elliptic curves and endomorphism rings*, Talk 2: *Computing the endomorphism ring of low-dimensional abelian varieties over finite fields*, CAIPI "Endomorphisms and invariants of some abelian varieties", Nancy.
- 12/12/2024 *Two Approaches to computing the endomorphism ring of a supersingular elliptic curve*, Séminaire Théorie des Nombres de l'UMPA, ENS Lyon.
- 25/11/2024 *Challenges in generating random supersingular elliptic curves over finite fields of large characteristic*, A day on Commutative Algebra and Cryptography, Grenoble.
- 31/10/2023 *On an open problem in isogeny based cryptography*, Coding Theory and Cryptography Meetup, Caserta, Italy.
- 25/10/2023 *Computing the endomorphism ring of a supersingular elliptic curve over a finite field*, Seminario di Geometria e Algebra, Dipartimento di Matematica e Applicazioni, Università degli Studi di Napoli Federico II.
- 22/09/2023 *Not everything has been broken in isogeny-based cryptography...*, Cryptography and Coding Theory organized by the group CRITTOGRAFIA E CODICI of the Italian Mathematical Union (UMI), Perugia, Italy.
- 07/04/2023 *Computing the endomorphism ring of a supersingular elliptic curve*, Séminaire Laboratoire Jean Kuntzmann, Université Grenoble Alpes. (online)
- 31/05/2022 *Computing the endomorphism ring of a supersingular elliptic curve*, Seminario di Geometria Algebrica, Università degli studi di Roma Tor Vergata.
- 17/05/2022 *Sur le calcul de l'anneau des endomorphismes d'une courbe elliptique supersingulière*, Séminaire Théorie des Nombres, Laboratoire de Mathématiques Blaise Pascal de l'Université Clermont Auvergne.

- 04/03/2022 *Sur le calcul de l'anneau des endomorphismes d'une courbe elliptique supersingulière*, Séminaire de théorie des nombres, Laboratoire de Mathématiques Nicolas Oresme de l'Université de Caen.
- 26/01/2022 *An application of the Hasse-Weil bound to rational functions over finite fields*, Seminario di Geometria, Dipartimento di Matematica e Applicazioni, Università degli Studi di Napoli Federico II.
- 20/05/2021 *Strumenti per fare crittoanalisi nei grafi di isogenie supersingolari*, Seminario De Cifris Athesis, De Componendis Cifris (online).
- 29/04/2021 *Graphes d'isogénies supersingulières, algèbres de quaternions et arbres de Bruhat–Tits*, Séminaire GAATI, Université de la Polynésie Française.
- 22/04/2021 *Looking at supersingular isogeny graphs from the perspective of Bruhat–Tits trees*, FRAGMENT Seminar (Front Range interested in algebra, geometry and number theory), University of Colorado and Colorado State University (online).
- 25/02/2021 *Can we use Bruhat–Tits trees to better understand supersingular isogeny graphs?*, eSeminar Discrete Mathematics, Codes and Cryptography, Université de Paris 8 (online).
- 12/02/2021 *Un résultat sur les fonctions rationnelles sur un corps fini à l'aide de la borne d'Hasse–Weil*, Séminaire de Théorie des Nombres, Institut de Mathématiques de Bordeaux (online).
- 15/12/2020 *Bruhat–Tits trees as a tool for exploring supersingular isogeny graphs*, Linfoot Number Theory Seminars, University of Bristol (online).
- 10/01/2020 *A quantum attack to the isogeny problem in the “commutative case”*, Centrum Wiskunde & Informatica (CWI), Amsterdam.
- 10/11/2019 *Singular curves over finite fields with many rational points*, Fall Western Sectional Meeting, Special Session on Arithmetic Geometry in Finite Characteristic, University of California, Riverside.
- 28/10/2019 *A result on rational functions via curves over finite fields*, Discrete Mathematics Seminar, Department of Mathematics & Statistics, University of South Florida.
- 9/02/2018 *Isogeny-based cryptography, a quantum-safe alternative*, Florida Women In Mathematics Day, Florida Atlantic University.
- 8/01/2018 *Un échange de clés dans le monde des calculateurs quantiques (A key exchange in the world of quantum computers)*, workshop ANR Manta, Paris, France.
- 19/11/2018 *On the security of a recent isogeny-based cryptosystem*, Discrete Mathematics Seminar, Department of Mathematics & Statistics, University of South Florida.
- 05/03/2018 *A singular trip through the world of algebraic curves over finite fields*, Discrete Mathematics Seminar, Department of Mathematics & Statistics, University of South Florida.
- 20/11/2016 *Curve su campi finiti a singolarità prescritte (Curves over finite fields with prescribed singularities)*, Seminar of Commutative Algebra, Dipartimento di Matematica e Fisica, Università degli studi di Roma Tre.
- 05/11/2015 *Courbes optimales et maximales (Optimal and maximal curves)*, Seminar of Arithmetic and Information Theory, I2M, Université d'Aix-Marseille.
- 17/02/2015 *Sur le nombre maximum de points rationnels d'une courbe singulière sur un corps fini (On the maximal number of points on singular curves over finite fields)*, Seminar of Algebra at IMATH, Université de Toulon.
- 29/01/2015 *Sur le nombre maximum de points rationnels d'une courbe singulière sur un corps fini (On the maximal number of points on singular curves over finite fields)*, Seminar of Arithmetic and Information Theory, I2M, Université d'Aix-Marseille.
- 14/05/2013 *Courbes avec un nombre fixé de points rationnels (Curves with a prescribed number of rational points)*, Seminaire of Algebra at IMATH, Université de Toulon.

### Lectures/courses for research schools

- 10/2024 *Découverte de SageMath*, 8-hour course for Baol Training School of Mathematics (BTSM 2024) at Université Alioune Diop de Bambey (Sénégal) from October 14 to 26, 2024

- 12/2023 *Isogeny-based Cryptography*, 6-hour course for CIMPA Research School on Post-Quantum Cryptography at Pondicherry University (India) from December 11 to 21, 2023  
**Video:** <https://youtu.be/P-4TBcH5pr0?si=xCqhRQb8EcYHNpwZ>
- 20/05/2022 *Identity-based encryption*, 15th lecture for the online course *De Cifris Trends in Modern Cryptography*.  
**Video:** <https://youtu.be/3vPiWQ07YsE>
- Outreach talks**
- 07/03/2024 *Alice au pays post-quantique*, Séminaire du magistère de mathématiques et applications, Université Grenoble Alpes, Grenoble.
- 12/05/2021 *Alice in post-quantum land*, Women in Mathematics Day 2021, University College Dublin School of Mathematics and Statistics (online).
- 06/03/2021 *Si on pouvait mentir au jeu du Qui est-ce ?*, Écoole Moorea, French Polynesia.
- 12/05/2020 *Billiards and donuts*, for the event *May 12, Mathematics: to the power of women!* (online). **Video:** [https://www.youtube.com/watch?v=gh\\_L6H\\_xP78&t=145s](https://www.youtube.com/watch?v=gh_L6H_xP78&t=145s)
- 02/03/2020 *Guess who, if I can lie*, University of Tampa.
- 01/08/2019 *From a liar Guess who to error-correcting codes*, Young CryptographHers Cybercamp 2019, Florida Atlantic University, Boca Raton.
- 19/04/2019 *Guess who, if I can lie*, Math Club, University of South Florida. **Video:** [https://youtu.be/4jB2Aph\\_Rx8](https://youtu.be/4jB2Aph_Rx8)
- 22/01/2016 *Allô Papa Tango Charlie, théorie des codes correcteurs (Allô Papa Tango Charlie, theory of error-correcting codes)*, for a High School class, Marseille.
- 06/06/2014 *Les nombres premiers ne sont pas si aléatoires (Prime numbers are not so random)*, *Journée d'étude sur le Hasard (Thematic day on Randomness)*, Fort St Jean, Marseille.
- 25/03/2014 *L'hypothèse de Riemann dans le paysage des courbes sur les corps finis (The Riemann Hypothesis in the landscape of curves over finite fields)*, Ph.D. student seminar, Marseille.
- 14/03/2014 *Pi... comme pizza (Pi... as pizza)*, *Pi day 2014*, Campus Saint-Charles, Marseille.

## Organisation of Conferences, Meetings and Seminars

- Since 01/2025 Organiser of the AfriMath Seminar in Number Theory and Information Theory: Online seminar series bringing together researchers across Africa, France and beyond.
- Since 09/2024 Organiser of the team seminar CASC (Algebraic and symbolic computation, security, complex systems, codes and cryptography), at the Laboratoire Jean Kuntzmann.
- 03/2025 *AMUSEC: Forum d'Aix-Marseille Université de la Cybersécurité*, 13-14 mars 2025, CIRM, Marseille, France.
- 11/2024 *A day on Commutative Algebra and Cryptography*, 25 novembre 2024, Université Grenoble Alpes in collaboration with Université de Neuchâtel, Grenoble, France.
- 03/2024 *AMUSEC: Forum d'Aix-Marseille Université de la Cybersécurité*, 21-22 mars 2024, CIRM, Marseille, France.

## Participation to research projects

- 2024-2026 ANR-20-CE40-0013 MELODIA: *Methods for low-dimensional abelian varieties*. PI: Gaetan Bisson.  
<https://anr.fr/Projet-ANR-20-CE40-0013>
- 2024 PEPS JCJC *Courbes Elliptiques et Variétés Abéliennes pour la Cryptographie*. PI: Sabrina Kunzweiler.
- 2016-2020 ANR-15-CE39-0013 Manta: *Algebraic Geometry and Algebraic Coding Theory for Cryptography*. PI: Daniel Augot.  
<https://anr.fr/Project-ANR-15-CE39-0013>

## Awards

2016 *D'Alembert Prize 2016* awarded by the French Mathematical Society to the *Pi Day Association* (which I co-founded in 2015) for all its original and creative actions of scientific outreach.

## Funding for organising outreach events

95 000 € by 30 different sponsors for organising the *Tournée de  $\pi$*  in March 2017 in Paris, Lyon and Marseille.  
26 500 € by 15 different sponsors for organising the *Pi day 2016* in Marseille.  
14 200 € by 12 different sponsors for organising the *Pi day 2015* in Marseille.

## Teaching experience

UNIVERSITÉ GRENOBLE ALPES - FRANCE  
Academic year 2023/2024, 2024/2025

### Undergraduate courses:

- *AAE: Algèbre et Arithmétique Effectives* (Fall 2023, Fall 2024).
- *MAP 201: Découverte des mathématiques appliquées* (Spring 2024, Spring 2025).
- *MAT208: Mathématiques pour les sciences chimiques et biochimiques* (Spring 2024, Spring 2025).

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II - ITALY  
Academic years 2021/2022, 2022/2023

### Undergraduate courses:

- *Geometria e Algebra* (Spring 2022, Spring 2023).

UNIVERSITÉ DE LA POLYNÉSIE FRANÇAISE - FRENCH POLYNESIA  
Academic years 2020/2021, 2021/2022

### Undergraduate courses:

- *Programmation Analyse Matricielle en Python* (Fall 2020, Fall 2021).
- *Initiation à l'algèbre A* (Fall 2020, Fall 2021).
- *Analyse 1.B* (Fall 2020, Fall 2021).

UNIVERSITY OF SOUTH FLORIDA - UNITED STATES  
Academic years 2017/2018, 2018/2019, 2019/2020

### Graduate courses:

- *MAT 5932 - Applied Cryptography* (online course - Spring 2020).
- *MAT 6932 - Algebraic curves over finite fields* (Fall 2018).

### Undergraduate courses:

- *MGF 3301 - Bridge to Abstract Mathematics* (Spring 2020).
- *MAC 2311 - Calculus 1* (Fall 2018, Spring 2018, Fall 2017).

**Undergraduate courses:**

- *Algèbre Linéaire* (Spring 2017, Spring 2016).
- *Géométrie et Arithmétique* (Fall 2016, Fall 2015).
- *Refresher course* in mathematics (Fall 2016, Fall 2015, Fall 2014).
- Recitations: *Géométrie et Arithmétique* (Fall 2014), *Introduction à l'Analyse* (Fall 2014), *Algèbre Linéaire* (Spring 2014).

**Engaging a broad body of students:**

- *Stages Hippocampe* (three-day research project for high-school students):
  - *Allô Papa Tango Charlie, théorie des codes correcteurs* (*Theory of error-correcting codes*) (creator and supervisor).
  - *The Mathematics of Sudoku* (tutor).
  - *Théorie des noeuds* (*Knot theory*) (tutor).
  - *Les Mathématiques des jeux : comment gagner presque sûrement* (*The mathematics of games: how to win almost surely*) (tutor).

**Tutor for undergraduate/graduate courses:**

- *Topologia Generale ed elementi di Topologia Algebrica* (Spring 2011).
- *Geometria Euclidea e Proiettiva* (Fall 2010, Fall 2009).
- *Teoria delle Equazioni e Teoria di Galois* (Spring 2010).

## Mathematical outreach activities

Co-founder of the **Pi day Association** that promotes and communicates mathematics to the general public. For all its original and creative actions, the association has been awarded the **d'Alembert Prize** in 2016 by the French Mathematical Society (Société Mathématique de France).

### Organisation of outreach events

MAY 12

- 12/05/2020 Organiser of **May 12**, an online event with 5 contributions by early career women in mathematics, followed by the screening of the film *Secrets of the Surface, the Mathematical Vision of Maryam Mirzakhani* - **Online** - 100 people.  
**Video:** [https://youtu.be/gh\\_L6H\\_xP78](https://youtu.be/gh_L6H_xP78)

CODEBREAKHERS

- 04/2019-06/2020 Lead instructor of **CodebreakHERS**, a week-long summer camp in cybersecurity for young girls at the University of South Florida: I have coordinated the development of the curriculum activities regarding cryptography and coding theory for the first and the second edition (unfortunately, due to covid-19, the second one never took place). **Website:** <https://www.codebreakhers.org/>



## PI DAY

03/14,16,19/17 Director of **Tournée de  $\pi$**  - 3.14 Paris (Théâtre des Variétés), 3.16 Marseille (Le Silo), 3.19 Lyon (Le Transbordeur) - 2000 people.

- *From Marseille to Vegas* (mathematical musical with professional actors and musicians);
- Three 15-minute math talks for the general public (different in each city);
- Pie contest with prizes (only in Lyon);
- Booths and animations.

**Videos:** <http://bit.ly/pi-day2017>

14/03/2016 Co-organiser of **Pi day 2016** - Théâtre National de la Criée, Marseille - 700 people.

- *Les  $\pi$  travaux d'Archimède* (mathematical musical with professional singers and musicians);
- Three 15-minute math talks for the general public;
- Pie contest with prizes;
- Booths and animations.

**Videos:** <http://bit.ly/pi-day2016>

14/03/2015 Co-organiser of **Pi day 2015** - MuCEM, Marseille - 500 people.

- Concert of a wind orchestra;
- Three 30-minute math talks for the general public;
- Pie contest with prizes;
- Afternoon of booths and animations.

## TREIZE MINUTES JEUNES CHERCHEURS (*Thirteen minutes young researchers*)

Night of 6 multidisciplinary conferences of 13 minutes by young researchers, organized by a group of Ph.D students of Aix-Marseille Université.

**Videos:** <https://treize.lis-lab.fr/?cat=3>

26/04/2017 Co-organiser of **Treize Minutes Jeunes Chercheurs 2017** - Alcazar, Marseille - 300 people.

10/05/2016 Co-organiser of **Treize Minutes Jeunes Chercheurs 2016** - Alcazar, Marseille - 300 people.

## Other outreach activities

09/05/2022 Invited speaker at the event *Lo sguardo di Mirzakhani*, organised by the Unione Matematica Italiana, the Gran Sasso Science Institute and the Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica of the Università dell'Aquila.

06/03/2021 Invited speaker at *Indovina chi viene a cena? Aperitivo con le matematiche*, an event addressed to high school students and organized by the Università degli Studi dell'Aquila and the GSSI - Gran Sasso Science Institute. The event was part of the initiative *May 12*.

03/17/2021 Presenter for the regional regional stage of *Ma thèse en 180s* (Three-minute Ph.D.) in French Polynesia and member of the coaching team.

May 2020 Co-realizer of a mathematical scavenger hunt for the Salon Culture et Jeux Mathématiques (online).

02/2019 Career panelist at Florida Women in Mathematics Day, Florida Atlantic University.

10/2016 Guide for the booth *Tous les chemins mènent à Rome-Dragon (T3)* (*All roads lead to Rome-Dragon*), *Fête de la Science 2016*, Vieille Charité, Marseille.



- 05/2016 Guide for the *Exposition Imaginary*, Salon Culture et Jeux Mathématiques, Paris.
- 02/2016 Participation to the writing of the play *Les  $\pi$  travaux d'Archimède*, performed during *Pi day 2016*, at Théâtre National de la Criée in Marseille.
- 10/2015 Creation and animation of a booth on cryptography and coding theory: *Le charabia du numérique : mégapixels, gigaoctets, cryptage... et autres gros mots !*, *Fête de la Science 2015*, Villa Méditerranée, Marseille.
- 22/03/2015 Guide for the *Exposition Imaginary*, Vieux Port, Marseille.
- 14/03/2015 Creation and animation of the booth *Les Mathématiques nous transportent en... cuisine ! (The Mathematics of cooking)*, *Pi day 2015*, MuCEM, Marseille.

## Administrative responsibilities

- Since 01/25 Substitute member of LJK council (college of MCF and CR).
- 11/16-01/18 Secretary of the *Pi day* association.
- 03/14-08/17 Appointed member of I2M council (college of non-permanent researchers).
- 11/15-11/16 Treasurer of the *Pi day* association.

## Other academic service

- Member of the Program Committee of MathCrypt21, WCC2024 (Workshop on Coding and Cryptography) and Cifris24.
- Subreviewer for the conference NutMiC2019 (Number-Theoretic Methods in Cryptology) and CASC2024 (Computer Algebra in Scientific Computing).
- Reviewer for the journals *Finite Fields and Their Applications*, *Journal of Number Theory*, *Journal of Mathematical Cryptology*, *Mediterranean Journal of Mathematics*, *Mathematics of Computation*, *Advances in Mathematics of Communications*, *Journal of Algebra and Its Applications*, *Advances in Geometry*.
- Reviewer for *Mathematical Reviews* - 9 reviews.
- Organiser of a welcome day for the academic years 2014/2015 and 2015/2016 of the *Mathematics and Computer Science Doctoral School* of Aix-Marseille Université.

## Computer skills

- Symbolic computation Sage, Magma
- Programming C, Python
- Others html, css, photo and video editing

## Language skills

- Italian (mother tongue), French (fluent), English (fluent), Spanish (fluent), Portuguese (intermediate).
- 2012-2017 Creator and coordinator (and animator for the Italian language) for the project *Café des Langues Luminy*: daily conversation groups in foreign languages for students and staff of Aix-Marseille Université. The project has been awarded in 2016 the Trophée Phocéén Étudiant (prize for student projects) by the city of Marseille.