

Mauro ARTIGIANI

PERSONAL DATA

PLACE OF BIRTH: Rome, Italy
NATIONALITY: Italian
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ACADEMIC POSITIONS

2024– Profesor Asistente, **Departamento de Matemáticas**,
Universidad Nacional de Colombia, Sede Bogotá, Colombia.
2022–2024 Graduate School Director, **School of Engineering, Science and Technology**,
Universidad del Rosario, Bogotá, Colombia.
2020–2024 Profesor Principal, **School of Engineering, Science and Technology**,
Universidad del Rosario, Bogotá, Colombia.
2018–2019 Investigador postdoctoral, **Departamento de Matemáticas**, Universidad de los Andes,
Bogotá, Colombia.
2016–2018 Postdoctoral researcher, **Centro di Ricerca Matematica Ennio De Giorgi**, Scuola Normale
Superiore, Pisa, Italy.

EDUCATION

2012–2016 Ph. D. in Mathematics, **University of Bristol**, Bristol, UK.
Thesis: “*Some aspects of Diophantine approximation and ergodic theory of translation surfaces*”. Advisor: Prof. Corinna ULCIGRAI.
2010–2012 Master of Science in MATHEMATICS **University of Rome “Sapienza”**, Rome.
110/110 *cum laude* | Major: Algebra & Geometry.
Thesis: “*Flat surfaces and the Veech dichotomy*”. Advisor: Prof. Gabriele MONDELLO.
2007–2010 Bachelor of Science in MATHEMATICS **University of Rome “Sapienza”**, Rome.
110/110 *cum laude* | Major: Pure Mathematics.
Thesis: “*On conformal structures of surfaces*”. Advisor: Prof. Andrea SAMBUSETTI.

GRANTS AND AWARDS

2021 Beca de Estancia de Docencia e Investigación 2021-II.
2021 Invited Professor, University of Pisa.
2019 Structured Quartet Research Ensemble (SQuaRE), American Institute for Mathematics, *joint with* Anja Randecker, Chandrika Sadanand, Ferrán Valdez and Gabriela Weitze-Schmithüsen
2012–2016 University of Bristol postgraduate Scholarship
2011–2012 Student in the “**Master Excellence Path**” in Mathematics at the University of Rome “Sapienza”.
2008–2010 Student in the “**Excellence Path**” in Mathematics at the University of Rome “Sapienza”.

PUBLICATIONS AND PREPRINTS

1. Realizing groups as symmetries of infinite translation surfaces.
joint with Anja Randecker, Chandrika Sadanand, Ferrán Valdez *and* Gabriela Weitze-Schmithüsen.

preprint. [arXiv](#).

2. On rigidity properties of time-changes of unipotent flows.
joint with Livio Flaminio and Davide Ravotti. To appear in *Annali della Scuola Normale Superiore di Pisa, Classe di Scienze*. [Preliminary journal version](#). [arXiv](#).
3. A note on double rotations of infinite type.
joint with Charles Fougerson, Pascal Hubert and Alexandra Skripchenko. *Transactions of the Moscow Mathematical Society*, **82** (2021), 157–172. [Journal](#); [arXiv](#).
4. Octagonal continued fraction and diagonal changes.
Rendiconti dell'Istituto di Matematica dell'Università di Trieste, **53** (2021), N. 9, 1–28. [Journal](#); [arXiv](#)
5. Persistent Hall rays for Lagrange spectra at cusps of Riemann surfaces.
joint with Luca Marchese and Corinna Ulcigrai. *Ergodic theory and Dynamical systems*, **40** (2020), 2017–2072. [Journal](#); [arXiv](#).
6. Exceptional ergodic directions in Eaton lenses.
Israel Journal of Mathematics, **220** (2017), 29–56. [Journal](#); [arXiv](#).
7. The Lagrange spectrum of a Veech surface has a Hall ray.
joint with Luca Marchese and Corinna Ulcigrai. *Groups, Geometry, and Dynamics*, **10** (2016), 1287–1337. [Journal](#); [arXiv](#).

TALKS

JUNE 2024	<i>Dynamical Systems Seminar</i> , CRM Ennio De Giorgi, Scuola Normale Superiore, Pisa, Italy.
NOVEMBER 2023	<i>Colloquium talk</i> , Semana de las Ciencias, Universidad Distrital Francisco José de Caldas, Bogotá, Colombia.
OCTOBER 2023	<i>Dynamical Systems Seminar</i> , CRM Ennio De Giorgi, Scuola Normale Superiore, Pisa, Italy.
JUNE 2023	<i>Semi-plenary talk</i> , XXIII Congreso Colombiano de Matemáticas, UPTC, Tunja, Colombia.
DECEMBER 2022	<i>Combinatorial and Geometric Approaches on Dynamics</i> , Centro de Modelamiento Matemático, Universidad de Chile, Santiago, Chile.
OCTOBER 2022	<i>Colloquium talk</i> , Universidad de Los Andes, Bogotá, Colombia.
JUNE 2022	<i>Courant Institute Dynamical Systems Seminar</i> , New York University, USA.
JUNE 2021	<i>Ergodic Theory Workshop</i> , University of North Carolina at Chapel Hill, USA.
JUNE 2021	<i>DinAmici</i> , Italy, recording .
MARCH 2021	<i>Colloquium talk</i> , Universidad Nacional de Colombia, Bogotá, Colombia.
SEPTEMBER 2019	<i>Colloquium talk</i> , Pontificia Universidad Javeriana, Bogotá, Colombia.
SEPTEMBER 2019	<i>Colloquium talk</i> , Universidad Nacional de Colombia, Bogotá, Colombia.
JUNE 2019	<i>Dynamical Systems Seminar</i> , CRM Ennio De Giorgi, Scuola Normale Superiore, Pisa, Italy.
OCTOBER 2018	<i>Colloquium talk</i> , Universidad de Los Andes, Bogotá, Colombia.
FEBRUARY 2018	<i>Workshop Around Dynamical Systems</i> , Udine, Italy.
DECEMBER 2017	<i>Dynamical Systems Seminar</i> , Institut de Mathématiques de Marseille, France.
NOVEMBER 2017	<i>Horowitz Seminar</i> , Tel Aviv University, Israel.
OCTOBER 2017	<i>Colloquium talk</i> , Universidad de Los Andes, Bogotá, Colombia.
AUGUST 2017	<i>Dynamics in Number Theory and Geometry</i> , Fields Institute, Kingston, Canada.
JUNE 2017	<i>Workshop on Moduli Spaces</i> , SkolTech & HSE, Moscow, Russia.
NOVEMBER 2016	<i>Prima Giornata DinAmica</i> . Gran Sasso Science Institute, L'Aquila, Italy.
FEBRUARY 2016	<i>Seminar at the Abdus Salam International Centre for Theoretical Physics</i> . Trieste, Italy.
NOVEMBER 2015	<i>Simons workshop on Translation surfaces and Dynamics</i> . Bedlewo, Poland.
JULY 2015	<i>School: "Dynamics & Geometry in Teichmüller Space"</i> . Marseille, France. (contributed)
JUNE 2015	<i>DinAmici IV</i> , conference of young Italian dynamicist. Corinaldo, Italy.
FEBRUARY 2015	<i>Ergodic Theory and Dynamical Systems seminar</i> . Warwick University, UK.
OCTOBER 2014	<i>Ergodic Theory and Dynamical Systems seminar</i> . University of Bristol, UK. (contributed)

TEACHING

- 2024-I Teoría de la Computación and Álgebra Abstracta y Codificación.
- 2023-II Teoría de la Computación and Álgebra Abstracta y Codificación.
- 2023-I Teoría de la Computación and Álgebra Abstracta y Codificación.
- 2022-II Teoría de la Computación and Álgebra Abstracta y Codificación.
- 2022-I Lógica, Teoría de Números y Conjuntos, Álgebra Abstracta y Codificación and Geometría Diferencial y Computacional.
- 2021-II Teoría de la Computación, and Geometría Diferencial y Computacional.
- June 2021 Graduate course on Translation Surfaces, Ph.D. program University of Pisa.
- 2021-I Lógica, Teoría de Números y Conjuntos, and Cálculo 2.
- 2020-II Teoría de la Computación, and Álgebra Abstracta y Codificación.
- 2020-I Lógica, Teoría de Números y Conjuntos, and Álgebra Abstracta y Codificación.
- 2019-II Cálculo diferencial and Teoría Ergódica.
- 2019-I Cálculo integral con ecuaciones diferenciales and Introducción a sistemas dinámicos.
- 2018-II Cálculo integral con ecuaciones diferenciales.
- 2017–2018 Dynamical systems & Ergodic Theory (*shared*).
- 2014–2016 Pure Mathematics subjects first year tutorials.
- 2013 Marker for “Ergodic Theory and Dynamical Systems”.

ADVISING

Daniel Pallejá López Master student, Universidad de los Andes, 2018–2020.

CONFERENCES AND MEETING ORGANISATION

- 2019 Weekly Colloquium Seminar, Universidad de los Andes, Bogotá, Colombia.
- 2018 [From order to chaos](#), CRM Ennio De Giorgi, Pisa.
- 2017–2018 [Dynamical Systems seminar](#), with Paolo Giulietti.
- 2014 *MINGLE*, University of Bristol, UK.
MINGLE is a one day meeting to welcome the new PhD and Master students at the University of Bristol. I was one of the five organisers and approximately 50 people were present.

OUTREACH

[Google, las Matemáticas, y los Sistemas Dinámicos](#) (YouTube video interview)

SERVICE

Reviewer for [zbMATH Open](#).

LANGUAGES

ITALIAN: Native
ENGLISH: Fluent
SPANISH: Fluent