

# Mauro ARTIGIANI

## PERSONAL DATA

PLACE OF BIRTH: Rome, Italy  
NATIONALITY: Italian  
ADDRESS: Departamento de Matemáticas,  
Edificio 404, Oficina 326,  
Universidad Nacional de Colombia  
AK 30 # 45-03, Bogotá, Colombia.  
✉ [martigiani@unal.edu.co](mailto:martigiani@unal.edu.co)  
🌐 <https://m-artigiani.github.io>  
ORCID: 0000-0003-3531-6323  
🐦 @m\_artigiani



## ACADEMIC POSITIONS

2024– Profesor Asociado, **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. Veech groups of covers of the Chamanara surface.  
*joint with* Anja Randecker, Chandrika Sadanand, Ferrán Valdez *and* Gabriela Weitze-Schmithüsen.

preprint. [arXiv](#).

2. Renormalization for Bruin-Troubetzkoy ITMs.  
*joint with* Pascal Hubert *and* Alexandra Skripchenko. preprint. [arXiv](#).
3. Realizing groups as symmetries of infinite translation surfaces.  
*joint with* Anja Randecker, Chandrika Sadanand, Ferrán Valdez *and* Gabriela Weitze-Schmithüsen. preprint. [arXiv](#).
4. 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](#).
5. 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](#).
6. Octagonal continued fraction and diagonal changes.  
*Rendiconti dell'Istituto di Matematica dell'Università di Trieste*, **53** (2021), N. 9, 1–28. [Journal](#); [arXiv](#)
7. 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](#).
8. Exceptional ergodic directions in Eaton lenses.  
*Israel Journal of Mathematics*, **220** (2017), 29–56. [Journal](#); [arXiv](#).
9. 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

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OCTOBER 2024	<i>Dynamical Systems Seminar</i> , Higher School of Economics, Moscow, Russia.
OCTOBER 2024	<i>Geometry and Topology Seminar</i> , Higher School of Economics, Moscow, Russia.
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, <a href="#">recording</a> .
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.

## TALKS (CONTINUED)

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- JUNE 2017 *Workshop on Moduli Spaces*, SkolTech & HSE, Moscow, Russia.  
NOVEMBER 2016 *Prima Giornata DinAmica*. Gran Sasso Science Institute, L'Aquila, Italy.  
FEBRUARY 2016 *Seminar at the Abdus Salam International Centre for Theoretical Physics*. Trieste, Italy.  
NOVEMBER 2015 *Simons workshop on Translation surfaces and Dynamics*. Bedlewo, Poland.  
JULY 2015 *School: "Dynamics & Geometry in Teichmüller Space"*. Marseille, France. (contributed)  
JUNE 2015 *DinAmici IV*, conference of young Italian dynamicist. Corinaldo, Italy.  
FEBRUARY 2015 *Ergodic Theory and Dynamical Systems seminar*. Warwick University, UK.  
OCTOBER 2014 *Ergodic Theory and Dynamical Systems seminar*. University of Bristol, UK. (contributed)

## TEACHING

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- 2024-II Fundamentos de Matemáticas, Variable Compleja y Matemáticas Básicas.  
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

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- Juliana Bermúdez Guzmán Undergraduate student, Universidad del Rosario, 2024–.  
Daniel Pallejá López Master student, Universidad de los Andes, 2018–2020.

## CONFERENCES AND MEETING ORGANISATION

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- 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

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

## SERVICE

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Reviewer for [zbMATH Open](#).

## LANGUAGES

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ITALIAN: Native

ENGLISH: Fluent

SPANISH: Fluent