

Juan Esteban RODRÍGUEZ CAMARGO

PERSONAL DATA

PLACE AND DATE OF BIRTH:	Armenia-Quindío, Colombia 26 January 1997
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WORK EXPERIENCE

01/2025-Present	Research group leader at Max Planck Institute for Mathematics, Bonn-Germany
10/2023-01/2025	Postdoc and Junior Simons Fellow at Columbia university, New York-US.
10/2022-09/2023	Postdoc at Max Planck Institute for Mathematics, Bonn-Germany

EDUCATION

2019 - 2022	Doctorat en mathématiques, UMPA ENS de Lyon . Lyon-France. Under the supervision of Prof. Vincent Pilloni
09/2018 - 09/2019	Master II en mathématiques, ENS de Lyon . Lyon-France
01/2018 - 06/2018	Master in Mathematics, Universidad de los Andes . Bogotá-Colombia (not finished)
2014 - 2017	Bachelor in Mathematics, Universidad Javeriana . Bogotá-Colombia.

(PRE-)PUBLICATIONS

2024	A Jacquet-Langlands functor for locally analytic representations (joint with Gabriel Dospinescu, preprint)
2024	The analytic de Rham stack in rigid geometry (preprint)
2023	Solid locally analytic representations (joint with Joaquín Rodrigues Jacinto, submitted)
2022	Geometric Sen theory over rigid analytic spaces (submitted)
2022	Locally analytic completed cohomology (submitted)
2022	Solid locally analytic representations of p-adic Lie groups (joint work with Joaquín Rodrigues Jacinto, Represent. Theory, 26 :962– 1024 (2022))
2021	p-adic Eichler-Shimura maps for the modular curve (Compositio Mathematica, 159(6), 1214-1249 (2023))
2020	An integral model of the perfectoid modular curve (Journal de l'École polytechnique - Mathématiques, Tome 8 (2021) , pp. 1193-1224)
2019	Induced character in equivariant K-theory and wreath products (joint work with Mario Velásquez and Germán Combariza, Revista Colombiana de Matemáticas. Vol. 56. Núm 1 (2022))

CONFERENCES

OBERWOLFACH 2025	Arithmetic geometry. Oberwolfach-Germany
DECEMBER 2024	Arithmetic and p-adic geometry in Chile. Santiago-Chile
OCTOBER 2024	Workshop on Shimura varieties, representation theory and related topics. Tokyo-Japan
SEPTEMBER 2024	Clay Research Conference. Oxford-UK
SEPTEMBER 2024	Workshop on p-adic geometry. Chicago-US
JULY 2024	Arithmetic Geometry. Oberwolfach-Germany
JUNE 2024	Arithmetic theta series and p-adic modular forms. Cetraro-Italy
MARCH 2024	Simons Collaboration on Perfection Algebra, Geometry and Topology Annual Meeting. New York-US
JUNE 2023	Oberwolfach workshop: Algebraische Zahlentheorie. Oberwolfach-Germany
JUNE 2023	Arbeitstagung on Condensed Mathematics. Bonn-Germany
JUNE 2023	Conference on local Langlands and p-adic methods. Bonn-Germany
MARCH 2023	Conference on Condensed Mathematics at CIRM. Marseille-France
NOVEMBER 2022	Workshop in Lue Pan work's on locally analytic vectors of completed cohomology. Colmar-France (talk on "differential operators of the locally analytic functions of the perfectoid modular curve")
AUGUST 2022	Community-building in the Langlands program (CLAP). Bonn-Germany
AUGUST 2021	Arithmetic of Shimura varieties over global fields. Cetraro-Italy
NOVEMBER 2020	Masterclass in condensed mathematics. Copenhagen university (online)
SEPTEMBER 2020	Workshop on condensed mathematics. ENS de Lyon. Couvant de la Tourette. With a talk about Solid abelian groups.
AUGUST 2019	Immeubles et grassmanniennes affines. CIRM. Marseille- France

GRANTS AND AWARDS

2023	Junior Fellow in the Simons Society of Fellows at Columbia University
2018 - 2019	Bourse d'excellence Ampère à l'ENS de Lyon. Lyon- France
2018 I	"Orden al mérito Académico Javeriano" , given to students that, at the end of the bachelor's programme, have achieved outstanding final grades. Bogotá-Colombia
AUGUST 2016	Scholarship in Utrecht Summer School on geometry. Utrecht University. Utrecht - The Netherlands
SEPTEMBER 2016	VIII Competição Iberoamericana Interuniversitária de Matemática, Bronze medal. Universidad do estado do Amazonas. Manaus - Brazil.

SELECTED TALKS

JUNE 2025	Arithmetic Geometry: MFO (Oberwolfach) D -modules on arc-stacks
APRIL 2025	COLOSS conference in the ENS de Lyon. Derived adic spaces and the analytic de Rham stack.
DECEMBER 2024	Arithmetic and p-adic geometry in Chile: Universidad Santiago de Chile Mini course on condensed mathematics.
SEPTEMBER 2024	Clay Research Conference: University of Oxford Integral ordinary Hodge-Tate decompositions of Siegel varieties.
SEPTEMBER 2024	Workshop on p-adic geometry: Chicago University Fargues-Fontaine de Rham stacks.
JULY 2024	Arithmetic Geometry: MFO (Oberwolfach) Analytic prismatization in rigid geometry.
APRIL 2024	Series of lectures in Chicago university. The analytic prismatization.
MARCH 2024	Simons Collaboration on Perfection Algebra, Geometry and Topology Annual Meeting: Simons Foundation p -adic D -modules and Shimura varieties.
AUGUST 2023	Oberseminar: MPIM De Rham stacks in analytic geometry.
AUGUST 2023	Seminar on the Arithmetic of the Langlands Program An introduction to geometric Sen theory.
JUNE 2023	Oberwolfach workshop: Algebraische Zahlentheorie The analytic de Rham stack and a Jacquet-Langlands correspondence for locally analytic representations.
JUNE 2023	Arbeitstagung on Condensed Mathematics The de Rham stack of rigid analytic spaces.
JUNE 2023	Conference on local Langlands and p-adic methods A local Jacquet-Langlands correspondence for locally analytic D -modules.
NOVEMBER 2022	Paris-London seminar Locally analytic representations and local Shimura varieties.
AUGUST 2022	Community-building in the Langlands program (CLAP). Locally analytic completed cohomology of Shimura varieties.
JUNE 2022	RAMpAGe seminar Solid locally analytic representations of p -adic Lie groups.
MAY 2022	Séminaire GRFA (IMJ-PRG) Locally analytic completed cohomology of Shimura varieties.
MAY 2022	Università Degli studi di Milano Locally analytic completed cohomology of Shimura varieties.
JANUARY 2022	Séminaire LAGA (université Paris 13) Locally analytic completed cohomology of Shimura varieties.
NOVEMBER 2021	Séminaire Mathjeunes Solid locally analytic representations.
SEPTEMBER 2021	Seminario Latinoamericano de Teoría de Números (LATEN) Un modelo integral de la curva modular perfecta.
DECEMBER 2020	Workshop in Higher Coleman theory, Montreal Overconvergent dual Eichler-Shimura maps for the modular curves.
NOVEMBER 2020	Paris-London seminar Overconvergent dual Eichler-Shimura maps for the modular curves.
NOVEMBER 2020	Study group on Hida and Coleman theories for the modular curve (Hida theory talk).

TEACHING EXPERIENCE AND ORGANIZATION OF SEMINARS

- 2025 Graduate course on **D -modules via derived algebraic stacks** at the university of Bonn
- 2025 Coorganizer of the **ARGOS seminar on modularity of abelian surfaces** at the university of Bonn (joint with Peter Scholze)
- 2024 Coorganizer of the **deformation theory seminar** at Columbia university (joint with Lucy Yang).
- 2024 Organizer of the **graduate seminar on solid geometry** at Columbia university
- 2020-2021 **Chargé de TD à l'ENS de Lyon** (Algèbre 2 L3)
- 2019-2020 **Chargé de TD à l'ENS de Lyon** (Algèbre 2 L3 et algèbre avancé M1)

LANGUAGES

SPANISH: Mothertongue
ENGLISH: Fluent (B.2)
FRENCH: B.1