

EDUCATION

Université Paris Cité, Institut de Mathématiques de Jussieu - Paris Rive Gauche. PhD studies. <i>On quantitative orbit equivalence between amenable groups</i> (thesis defended on December 11th 2025). Supervisors: François Le Maître and Romain Tessera.	2023–2026
Université Paris-Saclay. Second year of Master, Mathematics of randomness. First class honours.	2022–2023
Agrégation de mathématiques (competitive examination for teaching). Rank : 27th/338.	2022
Ecole Normale Supérieure Paris-Saclay, Université Paris-Saclay Second year of Master, Formation to higher-education teaching in mathematics. First class honours. First year of Master, Mathematics, Parcours Jacques Hadamard. First class honours. Bachelor, Mathematics. First class honours.	2021–2022 2020–2021 2019–2020
Lycée Louis-le-Grand Preparatory classes : undergraduate intensive course in mathematics and physics.	Paris, France 2016–2019
Lycée Jacques Feyder Baccalauréat. First class honours.	Epinay-sur-Seine, France 2013–2016

RESEARCH INTERNSHIPS

Institut de Mathématiques de Jussieu - Paris Rive Gauche Shannon orbit equivalence. Internship supervisor : François Le Maître.	2023, April–August
Centro de Matemática da Universidade do Porto Extreme values in dynamical systems. Internship supervisors : Ana Cristina Moreira Freitas and Jorge Milhazes Freitas.	2021, April–July
Ecole Normale Supérieure Paris-Saclay, Centre Borelli Use of stochastic differential equations in models usually studied with a deterministic point of view. Internship supervisor : Laure Quivy.	2020, March–June

PUBLICATIONS / PREPRINTS

- [1] Corentin Correia and Juan Paucar. *Obstructions for Quantitative Measure Equivalence between Locally Compact Groups*. 2025. DOI: 10.48550/ARXIV.2510.25321.
- [2] Corentin Correia and Vincent Dumoncel. *Isoperimetric Profiles of Lamplighter-like Groups*. 2025. DOI: 10.48550/ARXIV.2506.13235.
- [3] Corentin Correia. *Odomutants and Flexibility Results for Quantitative Orbit Equivalence*. 2025. DOI: 10.48550/ARXIV.2504.02021.
- [4] Corentin Correia. “On the Absence of Quantitatively Critical Measure Equivalence Couplings”. In: *Proceedings of the American Mathematical Society* (2025). DOI: 10.1090/proc/17291.
- [5] Corentin Correia. “Rank-One Systems, Flexible Classes and Shannon Orbit Equivalence”. In: *Ergodic Theory and Dynamical Systems* 45.7 (2025), 2132–2182. DOI: 10.1017/etds.2024.118.
- [6] Corentin Correia, Ana Cristina Moreira Freitas, and Jorge Milhazes Freitas. “Cluster Distributions for Dynamically Defined Point Processes”. In: *Physica D: Nonlinear Phenomena* 457 (2024), 133968. DOI: 10.1016/j.physd.2023.133968.

TEACHING

Université Paris-Cité

Exercise sessions on measure theory and probabilities (L3 Maths)	2025–2026 (1st semester)
Exercise sessions on statistics (L3 Maths)	2024–2025 (2nd semester)
Exercise sessions on probabilities (L3 MIASHS)	2024–2025 (1st semester)
Exercise sessions on statistics (L3 MIASHS)	2023–2024 (2nd semester)
Practice sessions on data science (L3 MIASHS)	2023–2024 (2nd semester)

Weekly oral exams (“colles”), in mathematics :

Lycée Henri IV	Paris, France, 2020–2021 and 2022–2023
Lycée Louis-le-Grand	Paris, France, 2019–2021

Tutoring sessions:

IPESUP	Paris, France, 2022–2023
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TALKS (INVITED SPEAKER)

Future talk: Workshop “Algebraic aspects of symbolic dynamics 2026”	Porto, Portugal, 13-07-2026 – 17-07-2026
“YMCN autumn school: Probability and dynamics on groups”	Münster, Germany, 25-09-2025
Online conference “Algebraic and geometric methods of analysis”	Ukraine, 26-05-2025
Workshop “Orbit equivalence”	Besse-en-Chandesse, France, 11-07-2024

OTHER TALKS

“Parole aux jeunes scientifiques du RT tétraèdre de Platon”	Montpellier, France, 25-11-2025
Lightning talk “YMCN autumn school: Probability and dynamics on groups”	Münster, Germany, 22-09-2025
Online conference “15th Ukraine Algebra Conference”	Ukraine, 10-07-2025
Seminar Geometry, Algebra, Dynamics and Topology	IMB, Dijon, France, 22-05-2025
Seminar Probability, analysis, statistics	LMBP, Clermont-Ferrand, France, 13-03-2025
PhD seminar	LMBP, Clermont-Ferrand, France, 12-03-2025
Conference “Arbre de Noël 2024 en Géométrie Non Commutative”	Orléans, France, 13-12-2024
PhD seminar	LAREMA, Angers, France, 05-11-2024
Seminar SymPA	LAMFA, Amiens, France, 10-09-2024
Conference “Groups, Languages, and Random Walks”	Cortona, Italy, 04-06-2024
Conference “Dynamics on zero-dimensional spaces: new connections”	Leiden, Netherlands, 16-05-2024
Seminar Operator algebra	IMJ-PRG, Paris, France, 02-05-2024
PhD seminar	IMJ-PRG, Paris, France, 15-02-2024
Seminar Groups and actions	LMO, Orsay, France, 29-01-2024

ATTENDED CONFERENCES

“Parole aux jeunes scientifiques du RT tétraèdre de Platon”	Montpellier, France, 24-11-2025 – 26-11-2025
“YMCN autumn school: Probability and dynamics on groups”	Münster, Germany, 22-09-2025 – 26-09-2025
“Orbit equivalence and topological and measurable dynamics”	Marseille, France, 25-08-2025 – 29-08-2025
“15th Ukraine Algebra Conference”	Ukraine, 08-07-2025 – 12-07-2025
“Groupoids from a measurable, topological and geometric perspective”	Paris, France, 23-06-2025 – 27-06-2025
“Algebraic and geometric methods of analysis” (online)	Ukraine, 26-05-2025 – 29-05-2025
“Young Geometric Group Theory XIII”	Copenhagen, Denmark, 07-04-2025 – 11-04-2025
“Rigidity of isometric actions”	Marseille, France, 24-03-2025 – 28-03-2025
“Arbre de Noël 2024 en Géométrie Non Commutative”	Orléans, France, 12-12-2024 – 13-12-2024
“Parole aux jeunes chercheuses et chercheurs du RT tétraèdre de platon”	ENS de Paris, France, 18-11-2024 – 20-11-2024
“Orbit equivalence”	Besse-en-Chandesse, France, 08-07-2024 – 12-07-2024
“Groups, Languages, and Random Walks”	Cortona, Italy, 03-06-2024 – 07-06-2024
“Dynamics on zero-dimensional spaces: new connections”	Leiden, Netherlands, 13-05-2024 – 17-05-2024
“Coarse geometry and dynamics”	ENS de Lyon, France, 30-08-2023 – 01-09-2023

ACTIVITIES

Reviewer for <i>Mathematical Reviews</i>	since October 2025
Co-organizer (with Vincent Dumoncel) of the working group “Geometric group theory and its coarse neighbourhood” Website: corentincorreia.pages.math.cnrs.fr/gdt	since 2025
Co-organizer of the “Bourbakette” (informal seminar for PhD students at IMJ-PRG)	2024–2025
Co-organizer of a meeting between M2 and PhD students at IMJ-PRG	2023 & 2024

IT SKILLS

- **Python:** Proficient.
- **L^AT_EX:** Proficient.

LANGUAGES

- **French:** Native speaker.
- **English:** Fluent.