



Guillaume Pignon-Ywanne

25 years old

Personal webpage available at the following adress : <https://perso.ens-lyon.fr/guillaume.pignon-ywanne/>

Academic Cursus and degrees

- 2023-2026 **PhD thesis**, *Supervised by Gabriel Dospinescu and Arthur-César Le Bras*, Title : "On p-adic étale cohomology of p-adic period domains", Defense expected in summer of 2026.
- 2019-2023 **Scolarity at ENS Ulm**, Graduated with a major in mathematics and a minor in computer science.
- 2021-2022 **Master 2 - "Mathématiques fondamentales"**, *ENS Ulm & Sorbonne Université*, With highest honors, Grade : 18.85/20.
- 2020-2021 **Master 1 - Mathematics**, *ENS Ulm & Université de Paris*, With highest honors, Grade : 18.90/20.
- 2019-2020 **Bachelor's Degree - Double major Mathematics & Computer Science**, *ENS Ulm & Université Paris Diderot*, With highest honors, Grade : 17.76/20 and 17.55/20.
- 2017-2019 **CPGE**, *Lycée Louis Le Grand*, MPSI-MP*.

Research

- 2025 **Mod p Poincaré duality for p-adic period domains**, *Incoming preprint*, Preliminary version (expected) accessible on my webpage.
- 2023 **Introduction to étale cohomology**, *Introduction to the field of research*, Accessible on my webpage, In french.
- 2022 **Extension groups of some period sheaves**, *Master's thesis*, IMJ-PRG, with Wiesława Nizioł. Accessible on my webpage ; Graded : 19/20

Talks

- Nov. 2025 **Talk at Lyon's "Arithmetics" seminar**, *Mod-p Poincaré Duality for some non-proper spaces in p-adic analytic geometry*, UMPA.
- May. 2025 **Talk at a p-adic Hodge theory working group**, *Vector bundles on the Fargues-Fontaine curve and the "Weakly admissible implies admissible" conjecture*.
- Dec. 2024 **Talk at a p-adic Hodge theory working group**, *Definition of the Fargues-Fontaine curve*.
- May. 2023 **Defended my "Introduction to the field of research"**, *An introduction to étale cohomology*, DMA, ENS Ulm.

Attended conferences and Workshops

- Feb. 2026 **Around the Langlands program - Thematic Month**, *CIRM*, Lumigny, France. (upcoming) Accepted application
- October 2025 **New Structures and Techniques in p-adic Geometry**, *IHES*, Bures-Sur-Yvette, France.
- Juillet 2025 **Journées Arithmétiques**, *Université du Luxembourg*, Belval, Luxembourg.

- Juin 2025 **Iwasawa Theory and Representations of p-Adic Groups**, *Laboratoire Paul Painlevé*, Lille, France.
- April 2025 **Arithmetic and Geometry of locally symmetric spaces**, *UMPA*, Lyon, France.
- March 2025 **Lyon-Tokyo conference in Number Theory and Arithmetic Geometry**, *UMPA*, Lyon, France.
- Déc. 2024 **The Analytic De Rham Stack**, *IMPAN*, Varsovie, Allemagne.
- Octobre 2024 **Summer School "Methods in Mixed Characteristic Geometry"**, *JGU*, Mayence, Allemagne.
- August 2023 **Summer School : "Discovering local Langlands correspondances : representations of p-adic groups, class field theory and Bruhat-Tits buildings"**, *LAMFA*, Amiens.
- June 2023 **Conference on Local Langlands and p-adic methods**, *HIM*, Bonn.
- May 2023 **Summer School on the Arithmetic of the Langlands Program**, *HIM*, Bonn.

Teaching experience

- 2025-202 (incoming) **Exercise sessions**, *Riemann Surfaces*, First year of master's, Umpa, ENS de Lyon.
- 2025 **Jury**, *Examiner of 6 first year master student's reports and defenses*, ENS Lyon.
- 2024-2025 **Exercise sessions**, *Riemann Surfaces*, First year of master's, Umpa, ENS de Lyon.
- 2024-2025 **Exercise sessions**, *Complex Analysis*, L3, Umpa, ENS de Lyon.
- Spring 2024 **Exercise sessions**, *Locally Compact Groups*, L3, Umpa, ENS de Lyon.
- Fall 2023 **Exercise sessions**, *Continued Fractions*, L3, Umpa, ENS de Lyon.
- 2019-2021 **Oral interrogator (khôlleur) in Mathematics**, *CPGE*, MPSI3, Lycée Louis-Le-Grand.

Older internships and Thesis

- Spring 2021 **M1 Internship**, *Institut Camille Jordan - Lyon 1*, with Jean-Yves Welschinger, On Rokhlin's congruence in real algebraic geometry.
- Summer 2020 **Computer Science Internship**, *LaBRi*, with Nathanaël Fijalkow and Guillaume Lagarde, On fair tournaments in Bradley-Terry's model et TrueSkill's algorithm.
- Spring 2020 **Computer Science Bachelor's Thesis**, with Claire Mathieu, Fair organizing of single elimination tournaments.

Languages

- French Native speaker
- English Advanced – C1
- German Basic – B1-B2

Personal interests

- Technique Amateur light and sound technician
- Danse Cheerleading, Modern Jazz, Pole
- Musique Drumming