Nataniel Marquis

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🌐 https://nmarquis-maths.github.io/

🎓 EDUCATION AND EMPLOYEMENT

Postdoc	from Sept. 2025
Universität Münster	
Work group of Eugen Hellmann	
Doctorate	2022-2025
Sorbonne Université	
Supervised by Pierre Colmez and Antoine Ducros	
Master's and Bachelor's studies	2018-2022
École Normale Supérieure and Sorbonne Université	
CPGE	2016-2018
MPSI and MPX at Lycée Louis-le-Grand	

🎓 DEGREES

PhD in Mathematics Sorbonne Université	Jun. 2025
Degree of the École Normale Supérieure in Mathematics	2022
Master's degree in Mathematics Sorbonne Université	2021
Bachelor's degree in Mathematics Sorbonne Université	2019

LANGUAGES

French	Native
English	CAE (Level C1)
German	B1
Japanese	Notions

📖 RESEARCH

Preprint : *Équivalences de Fontaine multivariable Lubin-Tate et plectiques pour un corps local p-adique,* arxiv:2410.09475	2024
Preprint : *Study of various categories gravitating around (φ,Γ)-modules,* arxiv:2410.09483	2024
Introduction to the field of research (available on my webpage) : *Introduction aux correspondances de Langlands locales p-adiques*	2022

Master's thesis (available on my webpage) : 2021
Théorie des (φ,Γ)-modules univariables, représentations de GL(2,Qp) et généralisation à la théorie des (φ,Γ)-modules multivariables.
Supervised by Pierre Colmez

Internship report : 2020
La conjecture de Fontaine : faiblement admissible implique admissible
Supervised by Arthur-César Le Bras

Bachelor's thesis : 2019
Nombre de classes des corps quadratiques, with Paul Wang
Supervised by Salim Tayou

🖥 TALKS AND ORGANISED EVENTS

Organisation of the Mittagsseminar **Winter Semester 2025**
Universität Münster

Talk at the number theory seminar of Budapest **Apr. 2025**
Multivariable Lubin-Tate Fontaine equivalence for local fields
Institue of Mathematics, Eötvös Loránd University, Budapest

Talk at the "Raconte-moi" seminar **Mar. 2025**
Raconte-moi la correspondance de Langlands modulo p pour GL(2,Qp)
DMA, École Normale Supérieure, Paris

Talk at the arithmetic algebraic geometry seminar of Heidelberg **Jan. 2025**
Multivariable Lubin-Tate Fontaine equivalence
Mathematisches Institut, Universität Heidelberg

Organisation of the RéGA seminar **2024-2025**

Talk at the back-to-school conference day of the Algebra and **Sept. 2024**
Geometry team :
Lien entre les théories d'Artin-Schreier et de Lubin-Tate
DMA, École Normale Supérieure, Paris

Talk at the PhD seminar of Besançon **Jun. 2024**
Représentations galoisiennes p-adiques de corps locaux p-adiques : motivation et (φ,Γ)-modules
LMB, Besançon

Talk at the RéGA seminar **Apr. 2024**
Périodes p-adiques et anneaux elfiques
IHP, Paris

Talk at the PhD seminar of Grenoble **Nov. 2023**
A few steps towards Fontaine's (φ,Γ)-modules
UGA

Talk at the Arithmetic Geometry Preprint Seminar **Oct. 2022**
Theory of multivariable (φ,Γ)-modules and consequences for a p-adic Langlands correspondance for GL(n,Qp), based on Zàbràdi
IMJ-PRG, Paris

💼 ATTENDED EVENTS

New Structures and Techniques in p-adic Geometry **Jul. 2024**
IHÉS, Bures-sur-Yvettes

MISCELLANEOUS

Harp degree (DEM)
Published novels :
Trilogy *Le sceau des éléments*

Algebraic K-theory and Arithmetic Institute of Mathematics of the Polish Academy, Będlewo	Jul. 2024
Riemann-Hilbert correspondance - classical and p-adic Dipartimento di Matematica, Padova	Jun. 2024
Spring Workshop of the Special Year on p-adic Arithmetic Geometry IAS, Princeton	Mar. 2024
Summer School on the Arithmetic of the Langlands Program HIM, Bonn	May 2023
Condensed Mathematics CIRM, Luminy	Mar. 2023
p-adic Franco-Asian Summer School on Arithmetic Geometry CIRM, Luminy	May 2022

TEACHING

Exercise sessions for "Group and representation theory" Teachers Gaëtan Chenevier then Ariane Mézard École Normale Supérieure, Paris	2022-2025
Supervision of a Bachelor's thesis about Lubin-Tate extensions École Normale Supérieure, Paris	2023-2024
Talens tutor: equal opportunities tutoring session for secondary school students	2019-2020
Oral interrogations in MPSI and MPX Lycée Louis-le-Grand, Paris	2018-2022