

Hicham Assakaf

Ph.D. Student in Mathematics

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EDUCATION

Université Paris Cité

Ph.D. in Mathematics

Supervisor: David Hernandez | Team: Groupes, Représentations et Géométrie

↔ **Research Topic:** *Study of deformed W -algebras*

Paris, France

Oct 2024 – Present

Sorbonne Université

M2 Fundamental Mathematics (Mention Très Bien)

Research Intern at Vrije Universiteit Brussels supervised by Kenny de Commer

↔ **Research Topic:** *Extremal Yang-Baxter characters of the infinite hyperoctahedral group*

Paris, France

Sep 2023 – Jun 2024

ENS Paris-Saclay

Agrégation in Mathematics

Rank 45 | High-level competitive exam for teaching recruitment

Gif-sur-Yvette, France

Sep 2022 – Jul 2023

ENS Paris-Saclay

ENS Paris-Saclay 2nd year Entrance Exam (Rank 1)

Master's in Pure & Applied Mathematics (M1)

Research Intern at Inst. Math. Marseille, supervised by A. Benabdallah & M. Morancey

↔ **Research Topic:** *Zero-controllability of a system of two coupled parabolic PDE*

Gif-sur-Yvette, France

Sep 2021 – Jul 2022

ENS Rennes

Bachelor in Mathematics & Bibliographic Internship

Intern supervised by Olivier Dudas

↔ **Research Topic:** *Representations of sl_n on Fock spaces and applications to symmetric group representation theory*

Bruz, France

Mar 2021 – Jul 2021

TEACHING & ACTIVITIES

Université Paris Cité

Teaching Assistant

Paris, France

2024 – Present

Lycée Charlemagne

Oral Examiner in Mathematics (“Khôlles” for MPSI/MP)

Paris, France

Sep 2021 – Present

H&K Édition

Author of written exam solutions

France

2022 – 2023

PUBLICATIONS/PREPRINTS

Yang-Baxter extremal characters of wreath products of finite groups with the infinite symmetric group

Prepublication available at: arxiv.org/abs/2408.13375

SKILLS & LANGUAGES

Programming: Python, LaTeX, SQL, Caml, SageMath

Languages:

- French (native)
- English (almost perfect, IELTS)
- Arabic (intermediate)
- Spanish (intermediate)