Yago Iglesias Vázquez

Theoretical Computer Science student
PGSM laureate

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⌂ github.com/Yag000
in Yago Iglesias

EDUCATION

Université Paris Cité — Paris, France
Master's degree in Theoretical
Computer Science research (MPRI) — 2024 – present

Université Paris Cité — Paris, France
Double degree in Mathematics and Computer Science — 2021 – 2024

Lycée Espagnol Luis Buñuel — Neuilly-sur-Seine, France
Highest Honors with Jury's Congratulations — 2018 – 2021

SKILLS

</> Rust · Ocaml · Rocq · C
Python · Java · Bash · Prolog

🗛 Spanish · Native language
French · Advanced
English · Advanced

EXPERIENCE

IRIF — Paris, France
Research Internship — February - June 2025

- Solved the uniformisation problem for MSO for unordered finite binary trees with Thomas Colcombet, you can read the report here. The project was in the context of a "research course" for my master's degree.

IRIF — Paris, France
Research Internship — June - July 2024

- Development of Coq verified simplification of intuitionistic formulas in the context of uniform interpolation in the research project UIML[1] with Sam van Gool and Hugo Férée.

CiTIUS — Santiago de Compostela, Spain
Research Internship — July 2023

- Development of algorithms to precisely characterize objects with a single LiDAR scan by reflecting the object on a well-placed mirror.

COMPETITIONS

Journées Franciliennes de Programmation
Participation in 2022, 2023 and 2024
SWERC
Participation in 2024

INTERESTS

Type theory, proof assistants, proof theory, logic automata theory, compilation and functional programming languages

Some Programming Projects

Chimpanzee
Monkey interpreter, compiler, and formatter written in Rust

Be Amazed
Voice recognition game in Java

jsh-tyy
C Job Shell as part of an operating systems course

λπ
Dependent types implementation in OCaml, with Amélia Coutard and Pierre-Évariste Dagand

enum_stringify
Rust set of macros to generate string conversion functions for enums

cinta
A simple C testing framework

Publications

[1] Hugo Férée, Sam V Gool, and Yago Iglesias Vázquez. Formulas Rewritten and Normalized Computationally, and Intuitionistically Simplified. In *36es Journées Francophones des Langages Applicatifs (JFLA 2025)*, Roiffé, France, January 2025.