

Pablo Donato

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🐙 @Champitoad

🌐 Pablo Donato

PhD student in Computer Science.

Education

Ph.D. in Computer Science

Institut Polytechnique de Paris

📅 2020 – Present

📍 Palaiseau, France

Researched novel graphical interfaces for proof assistants.

M.Sc. in Computer Science

MPRI (Master Parisien de Recherche en Informatique)

📅 2018 – 2020

📍 Paris, France

B.Sc. in Computer Science

Université Pierre et Marie Curie

📅 2016 – 2017

📍 Paris, France

Projects

Flower Prover

📅 2023 – Present

The Flower Prover is a prototype of GUI for interactive theorem proving by direct manipulation of structured boxes called *flowers*.

[Try it!](#) [GitHub](#)

coq-actema

📅 2022 – Present

coq-actema is a system that integrates the interface of Actema in the Coq proof assistant as an interactive proof view.

[GitHub](#)

Actema

📅 2020 – 2022

Actema is a prototype of GUI for interactive theorem proving by direct manipulation of formulas in goals.

[Try it!](#) [Frontend](#) [Backend](#)

Interests

- Formal mathematics
- End-user programming: visual, by example...
- Philosophy: epistemology, logic, language
- Music: composition (with computers), improvisation (jazz), playing (drums, keyboards), listening (eclectic)

Experience

Academia

Teaching assistant

Université de Paris, École Polytechnique

📅 2020–2023

📍 Paris, France

Teached Java, Python and Web programming to bachelor students at various levels.

Communications

Conferences

The Flower Calculus

SYCO 12

📅 April 2024

📍 Birmingham, UK

[talk](#)

A drag-and-drop proof tactic

CPP 2022

📅 January 2022

📍 New York, USA

[DOI](#) [talk](#)

Workshops

Integrating graphical proofs in Coq

CoqPL 2023

📅 January 2023

📍 Boston, USA

[talk](#)

Skills

Proof assistants

Coq



General-purpose programming

OCaml



Python, Java



Prolog, C#, C/C++



Web programming

HTML, CSS, JavaScript



Elm, TypeScript, Vue.js, Electron



PHP, MySQL



Tooling

GNU/Linux, Unix shell, Git



Nix



Typesetting

LaTeX



Typst

