Pablo Donato

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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.

Industry

C#/XAML for HTML5
Userware

📅 2018   📍 Paris, France

Worked in R&D on the TypeScript compiler integrated in the C#/XAML for HTML5 product.

Communications

Workshops

Integrating graphical proofs in Coq
CoqPL 2023

📅 January 2023   📍 Boston, USA

talk

Conferences

A drag-and-drop proof tactic
CPP 2022

📅 January 2022   📍 New York, USA

DOI *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   ●●○○○